

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2001  
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
FEBRUARY 2000

OTHER PROCUREMENT, NAVY  
BUDGET ACTIVITY 1

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2001 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

February 2000

APPROPRIATION: OTHER PROCUREMENT, NAVY

| ACTIVITY<br>-----                            | FY 1999<br>----- | FY 2000<br>----- | FY 2001<br>----- |
|----------------------------------------------|------------------|------------------|------------------|
| 01. SHIPS SUPPORT EQUIPMENT                  | 948.4            | 910.4            | 573.5            |
| 02. COMMUNICATIONS AND ELECTRONICS EQUIPMENT | 1,646.1          | 1,948.8          | 1,490.3          |
| 03. AVIATION SUPPORT EQUIPMENT               | 247.1            | 237.6            | 204.9            |
| 04. ORDNANCE SUPPORT EQUIPMENT               | 719.1            | 652.0            | 498.0            |
| 05. CIVIL ENGINEERING SUPPORT EQUIPMENT      | 54.4             | 68.7             | 97.7             |
| 06. SUPPLY SUPPORT EQUIPMENT                 | 89.2             | 140.0            | 161.8            |
| 07. PERSONNEL AND COMMAND SUPPORT EQUIPMENT  | 98.4             | 71.0             | 99.5             |
| 08. SPARES AND REPAIR PARTS                  | 243.9            | 273.2            | 208.9            |
| TOTAL OTHER PROCUREMENT, NAVY                | 4,046.7          | 4,301.5          | 3,334.6          |

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

| LINE<br>NO                                  | ITEM NOMENCLATURE                | IDENT<br>CODE | FY 1999  |      | FY 2000  |       | FY 2001  |      | S<br>E<br>C |
|---------------------------------------------|----------------------------------|---------------|----------|------|----------|-------|----------|------|-------------|
|                                             |                                  |               | QUANTITY | COST | QUANTITY | COST  | QUANTITY | COST |             |
| BUDGET ACTIVITY 01: SHIPS SUPPORT EQUIPMENT |                                  |               |          |      |          |       |          |      |             |
| SHIP PROPULSION EQUIPMENT                   |                                  |               |          |      |          |       |          |      |             |
| 1                                           | LM-2500 GAS TURBINE              | A             |          | 8.6  |          | 8.3   |          | 7.0  | U           |
| 2                                           | ALLISON 501K GAS TURBINE         | A             |          | 6.7  |          | 8.3   |          | 6.3  | U           |
| 3                                           | STEAM PROPULSION IMPROVEMENT     | A             |          | .6   |          |       |          |      | U           |
| 4                                           | OTHER PROPULSION EQUIPMENT       | A             |          | 12.0 |          |       |          |      | U           |
| GENERATORS                                  |                                  |               |          |      |          |       |          |      |             |
| 5                                           | OTHER GENERATORS                 | A             |          | 18.1 |          |       |          |      | U           |
| PUMPS                                       |                                  |               |          |      |          |       |          |      |             |
| 6                                           | OTHER PUMPS                      | A             |          | 1.0  |          |       |          |      | U           |
| PROPELLERS                                  |                                  |               |          |      |          |       |          |      |             |
| 7                                           | SUBMARINE PROPELLERS             | A             |          | 7.8  |          |       |          | 3.8  | U           |
| 8                                           | OTHER PROPELLERS AND SHAFTS      | A             |          | 1.1  |          |       |          |      | U           |
| NAVIGATION EQUIPMENT                        |                                  |               |          |      |          |       |          |      |             |
| 9                                           | OTHER NAVIGATION EQUIPMENT       | A             |          | 58.7 |          | 100.0 |          | 33.4 | U           |
| UNDERWAY REPLENISHMENT EQUIPMENT            |                                  |               |          |      |          |       |          |      |             |
| 10                                          | UNDERWAY REPLENISHMENT EQUIPMENT | A             |          | 7.3  |          | 15.6  |          | 9.1  | U           |
| PERISCOPES                                  |                                  |               |          |      |          |       |          |      |             |
| 11                                          | SUB PERISCOPES & IMAGING EQUIP   | A             |          | 28.5 |          | 64.7  |          | 19.0 | U           |
| OTHER SHIPBOARD EQUIPMENT                   |                                  |               |          |      |          |       |          |      |             |
| 12                                          | FIREFIGHTING EQUIPMENT           | A             |          | 11.1 |          | 16.9  |          | 16.8 | U           |
| 13                                          | COMMAND AND CONTROL SWITCHBOARD  | A             |          | 10.0 |          | 14.2  |          | 10.5 | U           |

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

| LINE<br>NO              | ITEM NOMENCLATURE                | IDENT<br>CODE | MILLIONS OF DOLLARS |                 |                     |                 |                     |                 | S<br>E<br>C |  |
|-------------------------|----------------------------------|---------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|-------------|--|
|                         |                                  |               | FY 1999<br>QUANTITY | FY 1999<br>COST | FY 2000<br>QUANTITY | FY 2000<br>COST | FY 2001<br>QUANTITY | FY 2001<br>COST |             |  |
| 14                      | POLLUTION CONTROL EQUIPMENT      | B             |                     | 117.0           |                     | 114.4           |                     | 47.8            | U           |  |
| 15                      | SUBMARINE SILENCING EQUIPMENT    | A             |                     | 3.4             |                     |                 |                     |                 | U           |  |
| 16                      | SUBMARINE SUPPORT EQUIPMENT      | A             |                     |                 |                     | 50.3            |                     | 11.4            | U           |  |
| 17                      | SUBMARINE BATTERIES              | A             |                     | 8.3             |                     | 13.0            |                     | 12.4            | U           |  |
| 18                      | SSN21 CLASS SUPPORT EQUIPMENT    | A             |                     | 15.3            |                     |                 |                     |                 | U           |  |
| 19                      | STRATEGIC PLATFORM SUPPORT EQUIP | A             |                     | 10.1            |                     | 21.0            |                     | 6.2             | U           |  |
| 20                      | DSSP EQUIPMENT                   | A             |                     | 10.3            |                     | 7.9             |                     | 5.4             | U           |  |
| 21                      | LCAC                             | A             |                     |                 |                     | 4.0             |                     | 3.6             | U           |  |
| 22                      | MINESWEEPING EQUIPMENT           | A             |                     | .4              |                     | 19.6            |                     | 16.6            | U           |  |
| 23                      | HM&E ITEMS UNDER \$2 MILLION     | A             |                     | 50.7            |                     |                 |                     |                 | U           |  |
| 24                      | ITEMS LESS THAN \$5 MILLION      | A             |                     |                 |                     | 127.7           |                     | 58.9            | U           |  |
| 25                      | SURFACE IMA                      | A             |                     | 4.1             |                     |                 |                     | 2.0             | U           |  |
| 26                      | MINI/MICROMINI ELECTRONIC REPAIR | A             |                     | .5              |                     |                 |                     |                 | U           |  |
| 27                      | SUBMARINE LIFE SUPPORT SYSTEM    | A             |                     |                 |                     | 1.3             |                     | 4.9             | U           |  |
| REACTOR PLANT EQUIPMENT |                                  |               |                     |                 |                     |                 |                     |                 |             |  |
| 28                      | REACTOR POWER UNITS              | A             |                     | 226.4           |                     |                 |                     |                 | U           |  |
| 29                      | REACTOR COMPONENTS               | A             |                     | 210.5           |                     | 198.0           |                     | 203.4           | U           |  |
| OCEAN ENGINEERING       |                                  |               |                     |                 |                     |                 |                     |                 |             |  |
| 30                      | DIVING AND SALVAGE EQUIPMENT     | A             |                     | 5.6             |                     | 5.5             |                     | 5.6             | U           |  |
| 31                      | EOD UNDERWATER EQUIPMENT         | B             |                     | 8.1             |                     |                 |                     |                 | U           |  |
| SMALL BOATS             |                                  |               |                     |                 |                     |                 |                     |                 |             |  |
| 32                      | STANDARD BOATS                   | A             |                     | 1.4             |                     | 3.1             |                     | 2.7             | U           |  |

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EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

| LINE<br>NO                                                   | ITEM NOMENCLATURE                  | IDENT<br>CODE | FY 1999  |       | FY 2000  |       | FY 2001  |       | S<br>E<br>C |
|--------------------------------------------------------------|------------------------------------|---------------|----------|-------|----------|-------|----------|-------|-------------|
|                                                              |                                    |               | QUANTITY | COST  | QUANTITY | COST  | QUANTITY | COST  |             |
| TRAINING EQUIPMENT                                           |                                    |               |          |       |          |       |          |       |             |
| 33                                                           | OTHER SHIPS TRAINING EQUIPMENT     | A             |          | 1.8   |          | 3.8   |          | 3.3   | U           |
| PRODUCTION FACILITIES EQUIPMENT                              |                                    |               |          |       |          |       |          |       |             |
| 34                                                           | OPERATING FORCES IPE               | A             |          | .7    |          | 4.5   |          | 2.7   | U           |
| OTHER SHIP SUPPORT                                           |                                    |               |          |       |          |       |          |       |             |
| 35                                                           | NUCLEAR ALTERATIONS                | A             |          | 94.1  |          | 108.3 |          | 80.9  | U           |
| DRUG INTERDICTION SUPPORT                                    |                                    |               |          |       |          |       |          |       |             |
| 36                                                           | DRUG INTERDICTION SUPPORT          | A             |          | 8.3   |          |       |          |       | U           |
| TOTAL SHIPS SUPPORT EQUIPMENT                                |                                    |               |          | 948.4 |          | 910.4 |          | 573.5 |             |
| BUDGET ACTIVITY 02: COMMUNICATIONS AND ELECTRONICS EQUIPMENT |                                    |               |          |       |          |       |          |       |             |
| SHIP RADARS                                                  |                                    |               |          |       |          |       |          |       |             |
| 37                                                           | AN/SPS-49                          | A             |          | 1.0   |          | 2.2   |          |       | U           |
| 38                                                           | RADAR SUPPORT                      | A             |          | 28.6  |          | 19.9  |          |       | U           |
| 39                                                           | TISS                               | A             |          | 3.5   |          | 1.7   |          |       | U           |
| SHIP SONARS                                                  |                                    |               |          |       |          |       |          |       |             |
| 40                                                           | AN/SQQ-89 SURF ASW COMBAT SYSTEM   | A             |          | 23.2  |          | 31.7  |          | 14.3  | U           |
| 41                                                           | SSN ACOUSTICS                      | A             |          | 142.7 |          | 216.4 |          | 106.6 | U           |
| 42                                                           | UNDERSEA WARFARE SUPPORT EQUIPMENT | A             |          |       |          | 11.5  |          | .8    | U           |
| 43                                                           | SONAR SUPPORT EQUIPMENT            | A             |          | 8.1   |          | 3.0   |          |       | U           |
| 44                                                           | SONAR SWITCHES AND TRANSDUCERS     | A             |          | 12.7  |          | 14.0  |          | 10.7  | U           |
| ASW ELECTRONIC EQUIPMENT                                     |                                    |               |          |       |          |       |          |       |             |
| 45                                                           | SUBMARINE ACOUSTIC WARFARE SYSTEM  | A             |          | 7.3   |          | 11.1  |          | 10.7  | U           |

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DATE: February 2000

| MILLIONS OF DOLLARS              |                                       |       |         |          |         |          |         |          |             |
|----------------------------------|---------------------------------------|-------|---------|----------|---------|----------|---------|----------|-------------|
| LINE                             | ITEM NOMENCLATURE                     | IDENT | FY 1999 |          | FY 2000 |          | FY 2001 |          | S<br>E<br>C |
| NO                               |                                       |       | CODE    | QUANTITY | COST    | QUANTITY | COST    | QUANTITY |             |
| ----                             | -----                                 | ----  | -----   | -----    | -----   | -----    | -----   | -----    | -           |
| 46                               | SSTD                                  | A     |         | .8       |         |          |         |          | U           |
| 47                               | ACOUSTIC COMMUNICATIONS               | A     |         | .4       |         |          |         |          | U           |
| 48                               | FIXED SURVEILLANCE SYSTEM             | A     |         | 9.4      | 16.6    |          | 29.9    |          | U           |
| 49                               | SURTASS                               | A     |         | 12.5     | 7.2     |          | 5.5     |          | U           |
| 50                               | ASW OPERATIONS CENTER                 | A     |         | 2.6      | 4.4     |          | 6.2     |          | U           |
| 51                               | CARRIER ASW MODULE                    | A     |         | .4       |         |          |         |          | U           |
| ELECTRONIC WARFARE EQUIPMENT     |                                       |       |         |          |         |          |         |          |             |
| 52                               | AN/SLQ-32                             | A     |         | 1.5      | 1.9     |          |         |          | U           |
| 53                               | AN/WLR-1                              | A     |         | 1.8      |         |          |         |          | U           |
| 54                               | INFORMATION WARFARE SYSTEMS           | A     |         | 3.4      | 4.1     |          | 3.9     |          | U           |
| 55                               | C-3 COUNTERMEASURES                   | A     |         | 10.0     |         |          |         |          | U           |
| RECONNAISSANCE EQUIPMENT         |                                       |       |         |          |         |          |         |          |             |
| 56                               | SHIPBOARD IW EXPLOIT                  | A     |         | 40.1     | 50.9    |          | 61.5    |          | U           |
| 57                               | COMMON HIGH BANDWIDTH DATA LINK       | A     |         | 55.6     | 36.8    |          |         |          | U           |
| SUBMARINE SURVEILLANCE EQUIPMENT |                                       |       |         |          |         |          |         |          |             |
| 58                               | AN/WLQ-4                              | A     |         | 2.8      |         |          |         |          | U           |
| 59                               | SUBMARINE SUPPORT EQUIPMENT PROG      | A     |         | 3.9      | 38.2    |          | 17.3    |          | U           |
| OTHER SHIP ELECTRONIC EQUIPMENT  |                                       |       |         |          |         |          |         |          |             |
| 60                               | NAVY TACTICAL DATA SYSTEM             | A     |         | 12.1     | 22.4    |          |         |          | U           |
| 61                               | COOPERATIVE ENGAGEMENT CAPABILITY     | B     |         | 81.7     | 60.2    |          | 15.9    |          | U           |
| 62                               | GCCS-M EQUIPMENT AFLOAT               | A     |         | 41.1     | 24.9    |          | 37.4    |          | U           |
| 63                               | NAVAL TACTICAL COMMAND SUPPORT SYSTEM | A     |         | 79.2     | 58.2    |          | 46.7    |          | U           |
| 64                               | ATDLS                                 | A     |         | 28.8     | 19.0    |          | 19.2    |          | U           |

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DATE: February 2000

| MILLIONS OF DOLLARS |                                     |       |         |          |         |          |         |          |       |
|---------------------|-------------------------------------|-------|---------|----------|---------|----------|---------|----------|-------|
| LINE                | ITEM NOMENCLATURE                   | IDENT | FY 1999 |          | FY 2000 |          | FY 2001 |          | S     |
| NO                  |                                     |       | CODE    | QUANTITY | COST    | QUANTITY | COST    | QUANTITY |       |
| ----                | -----                               | ----  | -----   | -----    | -----   | -----    | -----   | -----    | ----- |
| 65                  | MINESWEEPING SYSTEM REPLACEMENT     | A     |         | 17.2     | 19.6    |          | 9.0     |          | U     |
| 66                  | SHALLOW WATER MCM                   | B     |         | 7.3      | 18.7    |          | 16.9    |          | U     |
| 67                  | NAVSTAR GPS RECEIVERS (SPACE)       | A     |         | 9.4      | 8.5     |          | 9.6     |          | U     |
| 68                  | ARMED FORCES RADIO AND TV           | A     |         | 15.9     | 7.7     |          | 9.0     |          | U     |
| 69                  | STRATEGIC PLATFORM SUPPORT EQUIP    | A     |         | 12.5     | 24.7    |          | 15.4    |          | U     |
|                     | TRAINING EQUIPMENT                  |       |         |          |         |          |         |          |       |
| 70                  | OTHER SPAWAR TRAINING EQUIPMENT     | A     |         | 1.0      | 1.0     |          | 1.3     |          | U     |
| 71                  | OTHER TRAINING EQUIPMENT            | A     |         | 26.8     | 51.1    |          | 21.4    |          | U     |
|                     | AVIATION ELECTRONIC EQUIPMENT       |       |         |          |         |          |         |          |       |
| 72                  | MATCAL                              | A     |         | 11.6     | 12.3    |          | 4.3     |          | U     |
| 73                  | SHIPBOARD AIR TRAFFIC CONTROL       | B     |         | 8.5      | 7.5     |          | 7.9     |          | U     |
| 74                  | AUTOMATIC CARRIER LANDING SYSTEM    | A     |         | 10.7     | 18.5    |          | 18.5    |          | U     |
| 75                  | NATIONAL AIR SPACE SYSTEM           | B     |         | 7.7      | 34.9    |          | 30.5    |          | U     |
| 76                  | AIR STATION SUPPORT EQUIPMENT       | A     |         | 7.2      | 7.2     |          | 6.7     |          | U     |
| 77                  | MICROWAVE LANDING SYSTEM            | A     |         | 4.6      | 5.3     |          | 5.1     |          | U     |
| 78                  | FACSFAC                             | A     |         | 3.7      | 5.3     |          | 4.3     |          | U     |
| 79                  | ID SYSTEMS                          | A     |         | 17.6     | 9.2     |          | 14.3    |          | U     |
| 80                  | SURFACE IDENTIFICATION SYSTEMS      | A     |         | 2.6      | .6      |          |         |          | U     |
| 81                  | TAC A/C MISSION PLANNING SYS(TAMPS) | A     |         | 23.2     | 20.7    |          | 12.0    |          | U     |
|                     | OTHER SHORE ELECTRONIC EQUIPMENT    |       |         |          |         |          |         |          |       |
| 82                  | GCCS-M EQUIPMENT ASHORE             | A     |         | 4.0      | 9.4     |          |         |          | U     |
| 83                  | OSIS EVOLUTIONARY DEVELOPMENT (OED) | A     |         | .9       |         |          |         |          | U     |
| 84                  | TADIX-B                             | A     |         | 4.3      | 18.8    |          | *       |          | U     |

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DATE: February 2000

| MILLIONS OF DOLLARS      |                                       |       |          |         |          |       |          |       |   |
|--------------------------|---------------------------------------|-------|----------|---------|----------|-------|----------|-------|---|
| LINE                     | ITEM NOMENCLATURE                     | IDENT | FY 1999  | FY 2000 | FY 2001  | S     |          |       |   |
| NO                       |                                       | CODE  | QUANTITY | COST    | QUANTITY | COST  | QUANTITY | COST  | C |
| ----                     | -----                                 | ----  | -----    | -----   | -----    | ----- | -----    | ----- | - |
| 85                       | NAVAL SPACE SURVEILLANCE SYSTEM       | A     |          | 7.8     |          | 2.7   |          |       | U |
| 86                       | GCCS-M EQUIPMENT TACTICAL/MOBILE      | A     |          | 24.6    |          | 14.0  |          |       | U |
| 87                       | COMMON IMAGERY GROUND SURFACE SYSTEMS | A     |          | 65.2    |          | 41.0  |          | 47.0  | U |
| 88                       | RADIAC                                | A     |          | 4.0     |          | 4.3   |          | 8.3   | U |
| 89                       | GPETE                                 | A     |          | 9.5     |          | 7.7   |          | 7.4   | U |
| 90                       | INTEG COMBAT SYSTEM TEST FACILITY     | A     |          | 6.4     |          | 4.3   |          | 4.4   | U |
| 91                       | CALIBRATION STANDARDS                 | A     |          | 1.9     |          |       |          |       | U |
| 92                       | EMI CONTROL INSTRUMENTATION           | A     |          | 7.5     |          | 6.5   |          | 5.4   | U |
| 93                       | SHORE ELEC ITEMS UNDER \$2 MILLION    | A     |          | 10.4    |          |       |          |       | U |
| 94                       | ITEMS LESS THAN \$5 MILLION           | A     |          |         |          | 10.9  |          | 4.9   | U |
| SHIPBOARD COMMUNICATIONS |                                       |       |          |         |          |       |          |       |   |
| 95                       | SHIPBOARD TACTICAL COMMUNICATIONS     | A     |          | 31.9    |          | 25.2  |          |       | U |
| 96                       | PORTABLE RADIOS                       | A     |          | 6.4     |          |       |          |       | U |
| 97                       | SINCGARS                              | A     |          | 27.7    |          |       |          |       | U |
| 98                       | SHIP COMMUNICATIONS AUTOMATION        | A     |          | 109.1   |          | 229.2 |          | 185.1 | U |
| 99                       | SHIP COMM ITEMS UNDER \$5 MILLION     | A     |          | 31.2    |          | 30.5  |          |       | U |
| 100                      | INTEGRATED BROADCAST SYSTEM           | A     |          | 10.2    |          |       |          |       | U |
| 101                      | COMMUNICATIONS ITEMS UNDER \$5M       | A     |          |         |          |       |          | 30.9  | U |
| SUBMARINE COMMUNICATIONS |                                       |       |          |         |          |       |          |       |   |
| 102                      | SHORE LF/VLF COMMUNICATIONS           | A     |          | 13.9    |          | 36.2  |          | 31.4  | U |
| 103                      | SUBMARINE COMMUNICATION EQUIPMENT     | A     |          | 63.7    |          | 83.2  |          | 78.0  | U |
| 104                      | ADVANCED VLF RECEIVER                 | B     |          | 16.1    |          |       |          |       | U |

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DATE: February 2000

## MILLIONS OF DOLLARS

| LINE<br>NO                                     | ITEM NOMENCLATURE                    | IDENT<br>CODE | FY 1999  |         | FY 2000  |         | FY 2001  |         | S<br>E<br>C |
|------------------------------------------------|--------------------------------------|---------------|----------|---------|----------|---------|----------|---------|-------------|
|                                                |                                      |               | QUANTITY | COST    | QUANTITY | COST    | QUANTITY | COST    |             |
| SATELLITE COMMUNICATIONS                       |                                      |               |          |         |          |         |          |         |             |
| 105                                            | SATCOM SHIP TERMINALS (SPACE)        | A             |          | 140.8   |          | 216.5   |          |         | U           |
| 106                                            | SATELLITE COMMUNICATIONS SYSTEMS     | A             |          |         |          |         |          | 252.7   | U           |
| 107                                            | SATCOM SHORE TERMINALS (SPACE)       | A             |          | 65.1    |          | 65.3    |          |         | U           |
| SHORE COMMUNICATIONS                           |                                      |               |          |         |          |         |          |         |             |
| 108                                            | JCS COMMUNICATIONS EQUIPMENT         | A             |          | 3.3     |          | 3.7     |          | 2.5     | U           |
| 109                                            | NSIPS                                | A             |          | 5.1     |          | 7.0     |          | 1.8     | U           |
| 110                                            | JEDMICS                              | A             |          | 7.0     |          | 16.9    |          |         | U           |
| 111                                            | GCCS EQUIPMENT                       | A             |          | 2.5     |          |         |          |         | U           |
| 112                                            | NAVAL SHORE COMMUNICATIONS           | A             |          | 105.8   |          | 113.4   |          | 176.1   | U           |
| CRYPTOGRAPHIC EQUIPMENT                        |                                      |               |          |         |          |         |          |         |             |
| 113                                            | INFO SYSTEMS SECURITY PROGRAM (ISSP) | A             |          | 39.2    |          | 66.8    |          | 46.6    | U           |
| CRYPTOLOGIC EQUIPMENT                          |                                      |               |          |         |          |         |          |         |             |
| 114                                            | SPECIAL DCP                          | A             |          |         |          |         |          | 15.0    | U           |
| 115                                            | CRYPTOLOGIC COMMUNICATIONS EQUIP     | A             |          | 20.8    |          | 21.0    |          | 17.2    | U           |
| DRUG INTERDICTION SUPPORT                      |                                      |               |          |         |          |         |          |         |             |
| 116                                            | OTHER DRUG INTERDICTION SUPPORT      | A             |          | 5.3     |          |         |          |         | U           |
| TOTAL COMMUNICATIONS AND ELECTRONICS EQUIPMENT |                                      |               |          | 1,646.1 |          | 1,948.8 |          | 1,490.3 |             |
| BUDGET ACTIVITY 03: AVIATION SUPPORT EQUIPMENT |                                      |               |          |         |          |         |          |         |             |
| -----                                          |                                      |               |          |         |          |         |          |         |             |
| SONOBUOYS                                      |                                      |               |          |         |          |         |          |         |             |
| 117                                            | AN/SSQ-36 (BT)                       | A             |          | 2.9     |          |         |          |         | U           |
| 118                                            | AN/SSQ-53 (DIFAR)                    | A             |          | 28.0    |          |         |          |         | U           |

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APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

| MILLIONS OF DOLLARS |                                                |       |          |         |          |       |          |       |  |   |
|---------------------|------------------------------------------------|-------|----------|---------|----------|-------|----------|-------|--|---|
| LINE                | ITEM NOMENCLATURE                              | IDENT | FY 1999  | FY 2000 | FY 2001  | S     |          |       |  | E |
| NO                  |                                                | CODE  | QUANTITY | COST    | QUANTITY | COST  | QUANTITY | COST  |  | C |
| ----                | -----                                          | ----  | -----    | -----   | -----    | ----- | -----    | ----- |  | - |
| 119                 | PASSIVE SONOBUOYS (NON-BEAM FORMING)           | A     |          |         | 20.8     |       |          |       |  | U |
| 120                 | AN/SSQ-57 (SPECIAL PURPOSE)                    | A     |          | 2.4     |          |       |          |       |  | U |
| 121                 | AN/SSQ-62 (DICASS)                             | A     |          | 24.3    | 16.6     |       |          |       |  | U |
| 122                 | AN/SSQ-101 (ADAR)                              | B     |          | 19.4    | 16.7     |       |          |       |  | U |
| 123                 | SIGNAL, UNDERWATER SOUND (SUS)                 | A     |          | 1.4     |          |       |          |       |  | U |
| 124                 | SONOBUOYS - ALL TYPES                          | A     |          |         |          |       |          | 49.5  |  | U |
| 125                 | MISCELLANEOUS SONOBUOYS LESS THAN \$5 M        | A     |          |         | 2.2      |       |          |       |  | U |
|                     | AIRCRAFT SUPPORT EQUIPMENT                     |       |          |         |          |       |          |       |  |   |
| 126                 | WEAPONS RANGE SUPPORT EQUIPMENT                | A     |          | 22.9    | 23.0     |       |          | 15.1  |  | U |
| 127                 | EXPEDITIONARY AIRFIELDS                        | A     |          | 2.4     | .1       |       |          | 3.3   |  | U |
| 128                 | AIRCRAFT REARMING EQUIPMENT                    | A     |          | 12.7    | 12.4     |       |          | 10.7  |  | U |
| 129                 | AIRCRAFT LAUNCH & RECOVERY EQUIPMENT           | A     |          | 37.5    | 40.4     |       |          | 36.4  |  | U |
| 130                 | METEOROLOGICAL EQUIPMENT                       | A     |          | 27.9    | 31.3     |       |          | 30.9  |  | U |
| 131                 | OTHER PHOTOGRAPHIC EQUIPMENT                   | A     |          | .6      | 1.7      |       |          | 1.7   |  | U |
| 132                 | AVIATION LIFE SUPPORT                          | A     |          | 22.7    | 36.8     |       |          | 20.4  |  | U |
| 133                 | AIRBORNE MINE COUNTERMEASURES                  | A     |          | 35.3    | 31.3     |       |          | 32.1  |  | U |
| 134                 | REWSON PHOTOGRAPHIC EQUIPMENT                  | A     |          | .8      |          |       |          |       |  | U |
| 135                 | OTHER AVIATION SUPPORT EQUIPMENT               | A     |          | 5.8     | 4.2      |       |          | 4.9   |  | U |
|                     | TOTAL AVIATION SUPPORT EQUIPMENT               |       |          | 247.1   | 237.6    |       |          | 204.9 |  |   |
|                     | BUDGET ACTIVITY 04: ORDNANCE SUPPORT EQUIPMENT |       |          |         |          |       |          |       |  |   |
|                     | -----                                          |       |          |         |          |       |          |       |  |   |
|                     | SHIP GUN SYSTEM EQUIPMENT                      |       |          |         |          |       |          |       |  |   |
| 136                 | GUN FIRE CONTROL EQUIPMENT                     | A     |          | 31.0    | 5.8      |       |          | 18.3  |  | U |

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

| LINE<br>NO<br>-----              | ITEM NOMENCLATURE<br>-----         | IDENT<br>CODE<br>----- | FY 1999  |       | FY 2000  |       | FY 2001  |       | S<br>E<br>C<br>- |
|----------------------------------|------------------------------------|------------------------|----------|-------|----------|-------|----------|-------|------------------|
|                                  |                                    |                        | QUANTITY | COST  | QUANTITY | COST  | QUANTITY | COST  |                  |
| SHIP MISSILE SYSTEMS EQUIPMENT   |                                    |                        |          |       |          |       |          |       |                  |
| 137                              | MK-92 FIRE CONTROL SYSTEM          | A                      |          | 1.0   |          |       |          |       | U                |
| 138                              | TARTAR SUPPORT EQUIPMENT           | A                      |          | *     |          |       |          |       | U                |
| 139                              | POINT DEFENSE SUPPORT EQUIPMENT    | A                      |          | *     |          |       |          |       | U                |
| 140                              | NATO SEASPARROW                    | A                      |          | 7.3   |          | .5    |          | 21.7  | U                |
| 141                              | RAM GMLS                           | A                      |          | 63.1  |          | 39.1  |          | 37.3  | U                |
| 142                              | SHIP SELF DEFENSE SYSTEM           | B                      |          | 38.6  |          | 38.6  |          | 9.4   | U                |
| 143                              | AEGIS SUPPORT EQUIPMENT            | A                      |          | 89.4  |          | 91.2  |          | 36.8  | U                |
| 144                              | SURFACE TOMAHAWK SUPPORT EQUIPMENT | A                      |          | 96.7  |          | 85.3  |          | 70.6  | U                |
| 145                              | SUBMARINE TOMAHAWK SUPPORT EQUIP   | A                      |          | 3.9   |          | 2.1   |          | 2.9   | U                |
| 146                              | VERTICAL LAUNCH SYSTEMS            | A                      |          | 10.3  |          | 7.2   |          | 7.0   | U                |
| FBM SUPPORT EQUIPMENT            |                                    |                        |          |       |          |       |          |       |                  |
| 147                              | STRATEGIC PLATFORM SUPPORT EQUIP   | A                      |          | 2.9   |          | 9.3   |          | 2.9   | U                |
| 148                              | STRATEGIC MISSILE SYSTEMS EQUIP    | A                      |          | 275.7 |          | 238.2 |          | 166.6 | U                |
| 149                              | ANTI-SHIP MISSILE DECOY SYSTEM     | A                      |          | 21.9  |          | 32.3  |          | 33.8  | U                |
| ASW SUPPORT EQUIPMENT            |                                    |                        |          |       |          |       |          |       |                  |
| 150                              | SSN COMBAT CONTROL SYSTEMS         | A                      |          | 18.7  |          | 35.1  |          | 20.9  | U                |
| 151                              | SUBMARINE ASW SUPPORT EQUIPMENT    | A                      |          | 5.7   |          | 3.7   |          | 4.0   | U                |
| 152                              | SURFACE ASW SUPPORT EQUIPMENT      | A                      |          | 4.9   |          | 6.1   |          | 6.3   | U                |
| 153                              | ASW RANGE SUPPORT EQUIPMENT        | A                      |          | 4.5   |          | 6.4   |          | 6.9   | U                |
| OTHER ORDNANCE SUPPORT EQUIPMENT |                                    |                        |          |       |          |       |          |       |                  |
| 154                              | EXPLOSIVE ORDNANCE DISPOSAL EQUIP  | B                      |          | 8.8   |          | 8.9   |          | 7.5   | U                |
| 155                              | UNMANNED SEABORNE TARGET           | A                      |          | 1.9   |          |       |          |       | U                |

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

| LINE<br>NO | ITEM NOMENCLATURE                                       | IDENT<br>CODE | FY 1999  |       | FY 2000  |       | FY 2001  |       | S<br>E<br>C |
|------------|---------------------------------------------------------|---------------|----------|-------|----------|-------|----------|-------|-------------|
|            |                                                         |               | QUANTITY | COST  | QUANTITY | COST  | QUANTITY | COST  |             |
| 156        | INDUSTRIAL FACILITIES (CALIBRATION EQU                  | A             |          | 1.0   |          |       |          |       | U           |
| 157        | ITEMS LESS THAN \$5 MILLION                             | A             |          |       |          | 4.3   |          | 5.6   | U           |
| 158        | STOCK SURVEILLANCE EQUIPMENT                            | A             |          | 1.4   |          |       |          |       | U           |
|            | OTHER EXPENDABLE ORDNANCE                               |               |          |       |          |       |          |       |             |
| 159        | FLEET MINE SUPPORT EQUIPMENT                            | A             |          | *     |          |       |          |       | U           |
| 160        | SURFACE TRAINING DEVICE MODS                            | A             |          | 6.8   |          | 10.6  |          | 7.9   | U           |
| 161        | SUBMARINE TRAINING DEVICE MODS                          | A             |          | 23.5  |          | 27.4  |          | 31.6  | U           |
|            | TOTAL ORDNANCE SUPPORT EQUIPMENT                        |               |          | 719.1 |          | 652.0 |          | 498.0 |             |
|            | BUDGET ACTIVITY 05: CIVIL ENGINEERING SUPPORT EQUIPMENT |               |          |       |          |       |          |       |             |
|            | CIVIL ENGINEERING SUPPORT EQUIPMENT                     |               |          |       |          |       |          |       |             |
| 162        | ARMORED SEDANS                                          | A             | 1        | .2    |          |       | 1        | .2    | U           |
| 163        | PASSENGER CARRYING VEHICLES                             | A             | 102      | 3.2   | 25       | .6    | 3        | .1    | U           |
| 164        | SPECIAL PURPOSE VEHICLES                                | A             |          | 4.3   |          |       |          |       | U           |
| 165        | GENERAL PURPOSE TRUCKS                                  | A             |          | .1    |          | 1.6   |          | 1.0   | U           |
| 166        | CONSTRUCTION & MAINTENANCE EQUIP                        | A             |          | 1.5   |          | 2.7   |          | 6.2   | U           |
| 167        | FIRE FIGHTING EQUIPMENT                                 | A             |          | 1.6   |          | 2.3   |          | 2.5   | U           |
| 168        | TACTICAL VEHICLES                                       | B             |          | 1.3   |          | 9.3   |          | 10.5  | U           |
| 169        | AMPHIBIOUS EQUIPMENT                                    | A             |          | 19.7  |          | 20.5  |          | 51.6  | U           |
| 170        | COMBAT CONSTRUCTION SUPPORT EQUIP                       | A             |          | 1.1   |          |       |          |       | U           |
| 171        | MOBILE UTILITIES SUPPORT EQUIPMENT                      | A             |          | .4    |          |       |          |       | U           |
| 172        | OCEAN CONSTRUCTION EQUIPMENT                            | A             |          | .4    |          |       |          |       | U           |
| 173        | POLLUTION CONTROL EQUIPMENT                             | A             |          | 20.7  |          | 23.9  |          | 22.2  | U           |

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

| LINE<br>NO                                                  | ITEM NOMENCLATURE                         | IDENT<br>CODE | FY 1999  |      | FY 2000  |       | FY 2001  |       | S<br>E<br>C |
|-------------------------------------------------------------|-------------------------------------------|---------------|----------|------|----------|-------|----------|-------|-------------|
|                                                             |                                           |               | QUANTITY | COST | QUANTITY | COST  | QUANTITY | COST  |             |
| 174                                                         | ITEMS UNDER \$5 MILLION                   | A             |          |      |          | 7.8   |          | 3.4   | U           |
|                                                             | TOTAL CIVIL ENGINEERING SUPPORT EQUIPMENT |               |          | 54.4 |          | 68.7  |          | 97.7  |             |
| BUDGET ACTIVITY 06: SUPPLY SUPPORT EQUIPMENT                |                                           |               |          |      |          |       |          |       |             |
| -----                                                       |                                           |               |          |      |          |       |          |       |             |
| SUPPLY SUPPORT EQUIPMENT                                    |                                           |               |          |      |          |       |          |       |             |
| 175                                                         | MATERIALS HANDLING EQUIPMENT              | A             |          | 4.7  |          | 6.2   |          | 7.6   | U           |
| 176                                                         | OTHER SUPPLY SUPPORT EQUIPMENT            | A             |          | 11.9 |          | 6.9   |          | 5.2   | U           |
| 177                                                         | FIRST DESTINATION TRANSPORTATION          | A             |          | 4.4  |          | 1.6   |          | 4.1   | U           |
| 178                                                         | SPECIAL PURPOSE SUPPLY SYSTEMS            | A             |          | 68.3 |          | 125.2 |          | 144.9 | U           |
|                                                             | TOTAL SUPPLY SUPPORT EQUIPMENT            |               |          | 89.2 |          | 140.0 |          | 161.8 |             |
| BUDGET ACTIVITY 07: PERSONNEL AND COMMAND SUPPORT EQUIPMENT |                                           |               |          |      |          |       |          |       |             |
| -----                                                       |                                           |               |          |      |          |       |          |       |             |
| TRAINING DEVICES                                            |                                           |               |          |      |          |       |          |       |             |
| 179                                                         | TRAINING SUPPORT EQUIPMENT                | A             |          | 5.1  |          | 3.1   |          | 1.6   | U           |
| COMMAND SUPPORT EQUIPMENT                                   |                                           |               |          |      |          |       |          |       |             |
| 180                                                         | COMMAND SUPPORT EQUIPMENT                 | A             |          | 28.2 |          | 14.9  |          | 15.6  | U           |
| 181                                                         | EDUCATION SUPPORT EQUIPMENT               | A             |          | 2.3  |          | 2.3   |          | 2.1   | U           |
| 182                                                         | MEDICAL SUPPORT EQUIPMENT                 | A             |          | 1.3  |          | 5.0   |          | 7.4   | U           |
| 183                                                         | INTELLIGENCE SUPPORT EQUIPMENT            | A             |          | 23.0 |          | 19.3  |          | 16.0  | U           |
| 184                                                         | OPERATING FORCES SUPPORT EQUIPMENT        | A             |          | 9.6  |          | 5.8   |          | 25.0  | U           |
| 185                                                         | ENVIRONMENTAL SUPPORT EQUIPMENT           | A             |          | 16.5 |          | 18.3  |          | 22.2  | U           |
| 186                                                         | PHYSICAL SECURITY EQUIPMENT               | A             |          |      |          | 2.3   |          | 9.6   | U           |

UNCLASSIFIED

DEPARTMENT OF THE NAVY  
 FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

MILLIONS OF DOLLARS

| LINE<br>NO                                    | ITEM NOMENCLATURE             | IDENT<br>CODE | FY 1999  |         | FY 2000  |         | FY 2001  |         | S<br>E<br>C |
|-----------------------------------------------|-------------------------------|---------------|----------|---------|----------|---------|----------|---------|-------------|
|                                               |                               |               | QUANTITY | COST    | QUANTITY | COST    | QUANTITY | COST    |             |
| OTHER                                         |                               |               |          |         |          |         |          |         |             |
| 187                                           | CANCELLED ACCOUNT ADJUSTMENTS | A             |          | 12.4    |          |         |          |         | U           |
| TOTAL PERSONNEL AND COMMAND SUPPORT EQUIPMENT |                               |               |          | 98.4    |          | 71.0    |          | 99.5    |             |
| BUDGET ACTIVITY 08: SPARES AND REPAIR PARTS   |                               |               |          |         |          |         |          |         |             |
| -----                                         |                               |               |          |         |          |         |          |         |             |
| SPARES AND REPAIR PARTS                       |                               |               |          |         |          |         |          |         |             |
| 188                                           | SPARES AND REPAIR PARTS       | A             |          | 243.9   |          | 273.2   |          | 208.9   | U           |
| TOTAL SPARES AND REPAIR PARTS                 |                               |               |          | 243.9   |          | 273.2   |          | 208.9   |             |
| TOTAL OTHER PROCUREMENT, NAVY                 |                               |               |          | 4,046.7 |          | 4,301.5 |          | 3,334.6 |             |

Other Procurement, Navy  
Program and Financing (in Thousands of dollars)

| Identification code                           | 17-1810-0-1-051                              | Budget Plan (amounts for PROCUREMENT actions programed) |           |           | Obligations |           |           |
|-----------------------------------------------|----------------------------------------------|---------------------------------------------------------|-----------|-----------|-------------|-----------|-----------|
|                                               |                                              | 1999 actual                                             | 2000 est. | 2001 est. | 1999 actual | 2000 est. | 2001 est. |
| Program by activities:                        |                                              |                                                         |           |           |             |           |           |
| Direct program:                               |                                              |                                                         |           |           |             |           |           |
| 00.0101                                       | Ships support equipment                      | 946,065                                                 | 910,427   | 573,480   | 939,561     | 771,374   | 609,406   |
| 00.0201                                       | Communications and electronics equipment     | 1,642,290                                               | 1,948,778 | 1,490,336 | 1,597,867   | 2,135,453 | 1,537,011 |
| 00.0301                                       | Aviation support equipment                   | 251,256                                                 | 237,554   | 204,932   | 255,317     | 202,969   | 204,020   |
| 00.0401                                       | Ordnance support equipment                   | 714,877                                                 | 651,967   | 497,956   | 674,332     | 580,051   | 510,092   |
| 00.0501                                       | Civil engineering support equipment          | 54,367                                                  | 68,674    | 97,670    | 42,748      | 68,151    | 93,629    |
| 00.0601                                       | Supply support equipment                     | 89,139                                                  | 139,984   | 161,808   | 94,599      | 114,395   | 151,299   |
| 00.0701                                       | Personnel and command support equipment      | 104,909                                                 | 70,961    | 99,488    | 109,472     | 76,146    | 98,117    |
| 00.0801                                       | Spares and repair parts                      | 243,799                                                 | 273,155   | 208,941   | 235,003     | 235,346   | 210,511   |
| 00.9101                                       | Total direct program                         | 4,046,702                                               | 4,301,500 | 3,334,611 | 3,948,899   | 4,183,885 | 3,414,085 |
| 01.0101                                       | Reimbursable program                         | 53,392                                                  | 42,000    | 42,000    | 45,999      | 54,202    | 42,000    |
| 10.0001                                       | Total                                        | 4,100,094                                               | 4,343,500 | 3,376,611 | 3,994,898   | 4,238,087 | 3,456,085 |
| Financing:                                    |                                              |                                                         |           |           |             |           |           |
| Offsetting collections from:                  |                                              |                                                         |           |           |             |           |           |
| 11.0001                                       | Federal funds(-)                             | -1,735                                                  | -42,000   | -42,000   | -1,627      | -42,000   | -42,000   |
| 14.0001                                       | Non-Federal sources(-)                       | -51,657                                                 |           |           | -52,778     |           |           |
| 17.0001                                       | Recovery of prior year obligations           |                                                         |           |           | -8,731      |           |           |
| Unobligated balance available, start of year: |                                              |                                                         |           |           |             |           |           |
| 21.4002                                       | For completion of prior year budget plans    |                                                         |           |           | -465,555    | -543,326  | -648,739  |
| 21.4003                                       | Available to finance new budget plans        |                                                         | -38,951   |           |             | -38,951   |           |
| 21.4009                                       | Reprogramming from/to prior year budget plan | -37,167                                                 |           |           |             |           |           |
| Unobligated balance available, end of year:   |                                              |                                                         |           |           |             |           |           |
| 24.4002                                       | For completion of prior year budget plans    |                                                         |           |           | 543,326     | 648,739   | 569,265   |
| 24.4003                                       | Available to finance subsequent year budget  | 38,951                                                  |           |           | 38,951      |           |           |
| 25.0001                                       | Unobligated balance expiring                 | 6,500                                                   |           |           | 6,500       |           |           |
| 39.0001                                       | Budget authority                             | 4,054,986                                               | 4,262,549 | 3,334,611 | 4,054,986   | 4,262,549 | 3,334,611 |
| Budget authority:                             |                                              |                                                         |           |           |             |           |           |
| 40.0001                                       | Appropriation                                | 4,060,662                                               | 4,320,238 | 3,334,611 | 4,060,662   | 4,320,238 | 3,334,611 |
| 40.3601                                       | Unobligated Balance Rescinded                | -28,500                                                 | -38,951   |           | -28,500     | -38,951   |           |
| 40.7601                                       | Reduction pursuant to P.L. 106-113(-), Titl  |                                                         | -22,138   |           |             | -22,138   |           |
| 40.7701                                       | Reduction pursuant to P.L. 105-262 (-), 803  | -55,247                                                 |           |           | -55,247     |           |           |
| 41.0001                                       | Transferred to other accounts (-)            | -3,000                                                  |           |           | -3,000      |           |           |
| 42.0001                                       | Transferred from other accounts              | 81,071                                                  | 3,400     |           | 81,071      | 3,400     |           |
| 43.0001                                       | Appropriation (adjusted)                     | 4,054,986                                               | 4,262,549 | 3,334,611 | 4,054,986   | 4,262,549 | 3,334,611 |

Other Procurement, Navy  
Program and Financing (in Thousands of dollars)

| Identification code                 | 17-1810-0-1-051                                                    | Budget Plan (amounts for PROCUREMENT<br>actions programed) |           |           | Obligations |            |            |
|-------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|-----------|-----------|-------------|------------|------------|
|                                     |                                                                    | 1999 actual                                                | 2000 est. | 2001 est. | 1999 actual | 2000 est.  | 2001 est.  |
| Relation of obligations to outlays: |                                                                    |                                                            |           |           |             |            |            |
| 71.0001                             | Obligations incurred                                               |                                                            |           |           | 3,940,493   | 4,196,087  | 3,414,085  |
| 72.1001                             | From Federal sources: Receivables and unpaid, unfilled orders, SOY |                                                            |           |           | -78,045     | -66,263    | -66,263    |
| 72.4001                             | Obligated balance, start of year                                   |                                                            |           |           | 3,193,645   | 3,682,444  | 4,005,971  |
| 74.1001                             | From Federal sources: Receivables and unpaid, unfilled orders, EOY |                                                            |           |           | 66,263      | 66,263     | 66,263     |
| 74.4001                             | Obligated balance, end of year                                     |                                                            |           |           | -3,682,444  | -4,005,971 | -3,633,925 |
| 77.0001                             | Adjustments in expired accounts (net)                              |                                                            |           |           | -68,467     |            |            |
| 78.0001                             | Adjustments in unexpired accounts                                  |                                                            |           |           | -8,731      |            |            |
| 90.0001                             | Outlays (net)                                                      |                                                            |           |           | 3,362,714   | 3,872,560  | 3,786,131  |

Other Procurement, Navy  
Object Classification (in Thousands of dollars)

| Identification code       | 17-1810-0-1-051                                     | 1999 actual        | 2000 est.          | 2001 est.          |
|---------------------------|-----------------------------------------------------|--------------------|--------------------|--------------------|
| -----                     |                                                     |                    |                    |                    |
| Direct obligations:       |                                                     |                    |                    |                    |
| 125.101                   | Advisory and assistance services                    | 21,340             | 23,159             | 21,976             |
| 125.201                   | Other services                                      | 7,603              | 131,712            | 159,771            |
|                           | Purchases goods/services from Government accounts   |                    |                    |                    |
| 125.301                   | Purchase of goods/services from Government accounts | 126,825            | 138,806            | 131,034            |
| 125.303                   | Purchases from revolving funds                      | 908,958            | 950,977            | 876,731            |
| 126.001                   | Supplies and materials                              | 111,066            | 118,846            | 69,334             |
| 131.001                   | Equipment                                           | 2,773,107          | 2,820,385          | 2,155,239          |
|                           |                                                     | -----              | -----              | -----              |
| 199.001                   | Total Direct obligations                            | 3,948,899          | 4,183,885          | 3,414,085          |
|                           |                                                     |                    |                    |                    |
| Reimbursable obligations: |                                                     |                    |                    |                    |
|                           | Purchases goods/services from Government accounts   |                    |                    |                    |
| 225.303                   | Purchases from revolving funds                      | 14,718             | 41,598             | 41,591             |
| 226.001                   | Supplies and materials                              |                    | 402                | 409                |
| 231.001                   | Equipment                                           | 31,281             | 12,202             |                    |
|                           |                                                     | -----              | -----              | -----              |
| 299.001                   | Total Reimbursable obligations                      | 45,999             | 54,202             | 42,000             |
|                           |                                                     |                    |                    |                    |
| 999.901                   | Total obligations                                   | -----<br>3,994,898 | -----<br>4,238,087 | -----<br>3,456,085 |

Comparison of FY 1999 Financing as reflected  
in FY 2000 Budget with 1999 Financing as  
Shown in the FY 2001 Budget

(\$ In Thousands)

|                                        | <b>Financing Per<br/>FY 2000 Budget</b> | <b>Financing Per<br/>FY 2001 Budget</b> | <b>Increase (+) or<br/>Decrease (-)</b> |
|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Program Requirements (Total)           | 4,050,915                               | \$4,100,094                             | +\$49,179                               |
| Program Requirements (Service Account) | (\$4,008,915)                           | (\$4,046,702)                           | (+37,787)                               |
| Program Requirements (Reimbursable)    | (\$42,000)                              | (\$53,392)                              | (+11,392)                               |
| <b>Appropriation (Adjusted)</b>        | <b>\$3,980,415</b>                      | <b>\$4,054,986</b>                      | <b>+\$74,571</b>                        |

Explanation of Changes in Financing

The Fiscal Year 1999 program has changed since the presentation of the FY 2000 budget as noted below:

1. Program Requirements. There has been a net increase to the appropriation (adjusted) of ( +\$49,179). This net change is comprised of an increase in program requirements (+\$37,787) plus an increase in reimbursable authority of (+\$11,392).

Comparison of FY 1999 program requirements as reflected  
in the FY 2000 Budget with FY 1999 program requirements  
as shown in the FY 2001 Budget

Summary of Requirements  
(\$ in Thousands)

|                                     | <b>Total Program<br/>Requirements per<br/>FY 2000 Budget</b> | <b>Total Program<br/>Requirements per<br/>FY 2001 Budget</b> | <b>Increase (+) or<br/>Decrease (-)</b> |
|-------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|
| Ships Support Equipment             | \$954,401                                                    | \$948,436                                                    | -\$5965                                 |
| Communications and Electronic Equip | 1,184,901                                                    | 1,646,128                                                    | -46,122                                 |
| Aviation Support Equipment          | 243,679                                                      | 247,148                                                      | -3,469                                  |
| Ordnance Support Equipment          | 715,972                                                      | 719,069                                                      | +3,097                                  |
| Civil Engineering Support Equip     | 54,856                                                       | 54,389                                                       | -467                                    |
| Supply Support Equipment            | 89,537                                                       | 89,230                                                       | -307                                    |
| Personnel and Command Support Equip | 74,063                                                       | 98,411                                                       | +23,348                                 |
| Spares and Repair Parts             | 246,506                                                      | 243,891                                                      | -2,615                                  |
| Total Fiscal Year Program           | \$4,063,915                                                  | \$4,046,702                                                  | -\$17,213                               |

Explanation by Budget Activity  
(\$ In Thousands)

1. SHIP SUPPORT EQUIPMENT (-\$5,965) - Net decrease reflecting (-\$17,650) FY 1999 Congressional adjustments and internal reprogrammings (+\$11,685) including (+\$5,300) for Counter Drug Interdiction.

## Explanation by Budget Activity (Continued)

(\$ In Thousands)

2. COMMUNICATIONS & ELECTRONIC EQUIPMENT (-\$46,122) - Net decrease reflecting (-\$9,307) FY 1999 Congressional rescissions, other Congressional adjustments (-\$17,026), offsets for high priority Navy programs, (-\$10,399), and internal reprogramming actions of (-\$9390).
3. AVIATION SUPPORT EQUIPMENT (-\$3469) - Net decrease reflecting (-\$15,243) Congressional adjustments, and internal reprogrammings (+11,774).
4. ORDNANCE SUPPORT EQUIPMENT (+\$3,097) - Net increase reflecting Congressional adjustments (-\$7,073), and internal reprogrammings (+\$10,170).
5. CIVIL ENGINEERING SUPPORT (-\$467) - Net decrease reflecting Congressional adjustments (-\$620), and internal realignments (+\$153).
6. SUPPLY SUPPORT EQUIPMENT (-\$307) - Net decrease reflecting Congressional adjustments (-\$307).
7. PERSONNEL & COMMAND SUPPORT (+\$23,348) - Net increase reflecting Congressional adjustments (+\$6,500), economic assumptions (-\$704), and increases for high priority Navy programs including paperless acquisition and smartcard (+\$16,144).
8. SPARES & REPAIR PARTS (-\$2,615) - Net decrease reflecting Congressional adjustments (-\$3,191), and internal realignments (+\$576).

Comparison of FY 2000 Financing as reflected  
in FY 2000 Budget with 2000 Financing as  
Shown in the FY 2001 Budget

(\$ In Thousands)

|                                        | <b>Financing Per<br/>FY 2000 Budget</b> | <b>Financing Per<br/>FY 2001 Budget</b> | <b>Increase (+) or<br/>Decrease (-)</b> |
|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Program Requirements (Total)           | \$4,142,091                             | \$4,343,500                             | +\$201,409                              |
| Program Requirements (Service Account) | (\$4,100,091)                           | (\$4,301,500)                           | (+201,409)                              |
| Program Requirements (Reimbursable)    | (\$42,000)                              | (\$42,000)                              | 0                                       |
| <b>Appropriation (Adjusted)</b>        | <b>\$4,100,091</b>                      | <b>\$4,262,549</b>                      | <b>+\$162,458</b>                       |

Explanation of Changes in Financing

The Fiscal Year 2000 program has changed since the presentation of the FY 2000 budget as noted below:

1. Program Requirements. There has been a net increase to the appropriation (adjusted) of +\$162,458. This net change is comprised of an increase in program requirements (+\$184,596), less rescissions of (-\$22,138).

Comparison of FY 2000 program requirements as reflected  
in the FY 2000 Budget with FY 2000 program requirements  
as shown in the FY 2001 Budget

Summary of Requirements (\$ in Thousands)

|                                     | <b>Total Program<br/>Requirements per<br/>FY 2000 Budget</b> | <b>Total Program<br/>Requirements per<br/>FY 2001 Budget</b> | <b>Increase (+) or<br/>Decrease (-)</b> |
|-------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|
| Ships Support Equipment             | \$858,709                                                    | \$910,427                                                    | +\$51,718                               |
| Communications and Electronic Equip | 1,845,227                                                    | 1,948,778                                                    | +103,551                                |
| Aviation Support Equipment          | 216,237                                                      | 237,554                                                      | +21,317                                 |
| Ordnance Support Equipment          | 629,418                                                      | 651,967                                                      | +22,549                                 |
| Civil Engineering Support Equip     | 67,144                                                       | 68,674                                                       | +1,530                                  |
| Supply Support Equipment            | 139,628                                                      | 139,984                                                      | +356                                    |
| Personnel and Command Support Equip | 67,598                                                       | 70,961                                                       | +3,363                                  |
| Spares and Repair Parts             | 276,130                                                      | 273,155                                                      | -2,975                                  |
| <b>Total Fiscal Year Program</b>    | <b>\$4,100,091</b>                                           | <b>\$4,301,500</b>                                           | <b>+\$201,409</b>                       |

Explanation by Budget Activity  
(\$ in Thousands)

1. Ships Support Equipment (+\$51,718) – Net changes reflect FY 2000 Congressional adjustments (+\$51,718).
2. Communications and Electronics Equipment (+\$103,551) – Net changes reflect FY 2000 Congressional adjustments (+\$103,551).

Comparison of FY 2000 program requirements as reflected  
in the FY 2000 Budget with FY 2000 program requirements  
as shown in the FY 2001 Budget

Explanation by Budget Activity (Continued)  
(\$ in Thousands)

3. Aviation Support Equipment (+\$21,317) - Changes reflect FY 2000 Congressional reductions (-\$8953), and Congressional increases (+\$30,270).
4. Ordnance Support Equipment (+\$22,549) - Changes reflect FY 2000 Congressional adjustments (+\$13,345), and DoN internal realignments (+\$9,204).
5. Civil Engineering Support Equipment (+\$1,530) - Changes reflect FY 2000 Congressional adjustments (+\$1,530).
6. Supply Support Equipment (+\$356) - Changes reflect FY 2000 Congressional reductions (-\$744), and Congressional increases (+\$1,100).
7. Personnel and Command Support (+\$3,363) - Changes reflect Congressional reductions (-\$286), and Department realignments (+\$3,649).
8. Spare and Repair Parts (-\$2,975) - Changes reflect FY 2000 Congressional reductions (-\$1,435) and internal reprogrammings (-\$1,540).

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**BUDGET ITEM JUSTIFICATION SHEET**

**P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY  
**OTHER PROCUREMENT, NAVY**  
**BA1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE  
**LM2500 GAS TURBINE (81GA) (0110)**

Program Element for Code B Items:

Other Related Program Elements

|                              | Prior Years | ID Code |  | FY 1999      | FY 2000      | FY 2001      | FY 2002      | FY 2003      | FY 2004      | FY 2005      | To Complete | Total         |
|------------------------------|-------------|---------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|
| QUANTITY                     |             |         |  |              |              |              |              |              |              |              |             |               |
| COST<br>(In Millions)        |             |         |  | <b>\$8.6</b> | <b>\$8.3</b> | <b>\$7.0</b> | <b>\$7.2</b> | <b>\$8.0</b> | <b>\$7.7</b> | <b>\$7.9</b> |             | <b>\$54.7</b> |
| SPARES COST<br>(In Millions) |             |         |  |              |              |              |              |              |              |              |             | <b>\$0.0</b>  |

The LM2500 Marine Gas Turbine and its associated Engineering Control Systems provide main propulsion for the Navy's newest surface combatants including the FFG 7 OLIVER HAZARD PERRY Class, DD 963 SPRUANCE Class, CG 47 TICONDEROGA Class, DDG 51 ARLEIGH BURKE Class and AOE 6 SUPPLY Class. The LM2500 is composed of two major subassemblies, the gas generator and power turbine sections. It is coupled to the ship drivetrain by a high speed coupling shaft. Its control system provides both local and remote engine operations. The components of this propulsion gas turbine budget items are as follows:

Modification Kit Program (GA009)

a. A metrics program has been established for the LM 2500 engine whereby individual engine components are tracked and data compiled regarding failure rates. The data is compiled for various ship classes and engine configurations. This metrics program clearly identifies where engineering efforts should be focused to improve component reliability and also indicates which modification kits should be procured. The modifications kits can either be installed at the depot level during engine overhauls or at the intermediate level aboard ship via IMA support teams. Following modification kit installations, engine reliability is tracked to measure the effectiveness of these kit installations. Return on investment calculations are employed to quantify program savings. The modification kits hold down the cost to overhaul the engine at the depot level as well as reduce programmatic life cycle costs.

b. Failure to procure modification kits will prevent improvement to mean time between replacement (MTBR) and will significantly increase life cycle costs including increasing the requirement for additional spare engine assets, increasing the cost to overhaul engines at the depot and negatively impacting the reliability of engines and fleet readiness. It should be noted that although some gas turbine ships are decommissioning, the total engine population in the fleet remains stable until FY 05 and then decreases only by six engines per year. The affects of decommissioning are being offset by an aggressive DDG 51 construction program.

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**BA1 Ships Support Equipment  
OTHER PROCUREMENT, NAVY**

P-1 ITEM NOMENCLATURE

**LM2500 GAS TURBINE (81GA) (0110)**

Gas Generator In Container (GA010)

a. The attainment of LM2500 spare single shank gas generator inventory level of 21 is considered the program's minimum requirement based upon the current total population of 448 engines along with the requirement to forward deploy some inventory assets to support the fleet overseas. This inventory level is based upon 25 years of experience with the LM2500 Engine and ensures 90% probability for spare asset availability at propulsions points. The LM2500 inventory objective is 21. 14 units have been procured through FY 1999 and 6 units are included in the budget from FY 00 to 05, and 1 unit is to be procured in FY 06. This procurement is required from FY 99 thru FY 05 to support the increasing population of the newer version single shank LM2500 engine which operates at a higher horsepower and provides additional ship capability.

b. Failure to procure this spare engine will result in failure to reach to the minimum required spares based upon program history. This lack of spare assets could result in a ship having to get underway with an inoperable engine or create a void within the ship's propulsion drivetrain.

Control System Modifications (GA012)

a. The engine control system consists of sensors, data acquisition units, processors and operator consoles. Peripheral devices include bell and data loggers, printers, tape readers, mass storage devices and tape recorders. These end items are comprised of printer circuit boards, meters, CRT's, switches and power supplies. Inventory objectives not required. Unit costs vary per modification kit.

Special Support Equipment, SSE (GA014)

a. Procurement of Special Support Equipment allows for increased depot repair capability, thereby stabilizing or reducing the cost to overhaul engines at the depot. This tooling is generally associated with depot modifications being made to the engine to increase engine reliability. This increased capability reduces engine overhaul costs.

Production Engineering (GA830)

a. The review and approval of any production contract technical documentation, or the separate development of this documentation to include Technical Manuals, Signal Flow Diagrams, PMS, Level III production drawings, provisioning technical documentation (PTD), program support data (PSD), allowance parts lists (APL's) and engineering in support of final design reviews.

P-1 SHOPPING LIST

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                     |                           |         |                                    | Weapon System |                                                                    |            |          |              |            |          |              |            | DATE:<br>FEBRUARY 2000 |           |            |              |
|-----------------------------------------------------------------------------------------|---------------------------|---------|------------------------------------|---------------|--------------------------------------------------------------------|------------|----------|--------------|------------|----------|--------------|------------|------------------------|-----------|------------|--------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA1 Ships Support Equipment |                           |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>LM 2500 GAS TURBINE (81GA) (0110) |            |          |              |            |          |              |            |                        |           |            |              |
| COST CODE                                                                               | ELEMENT OF COST           | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                    |            |          |              |            |          |              |            |                        |           |            |              |
|                                                                                         |                           |         | Prior Years                        | FY 1999       |                                                                    |            | FY 2000  |              |            | FY 2001  |              |            |                        |           |            |              |
|                                                                                         |                           |         | Total Cost                         | Quantity      | Unit Cost                                                          | Total Cost | Quantity | Unit Cost    | Total Cost | Quantity | Unit Cost    | Total Cost | Quantity               | Unit Cost | Total Cost |              |
|                                                                                         | N86 SURFACE WARFARE       |         |                                    |               |                                                                    |            |          |              |            |          |              |            |                        |           |            |              |
| GA009                                                                                   | MODIFICATION PROGRAM      | A       |                                    |               |                                                                    |            |          | 3,806        |            |          | 3,644        |            |                        |           |            | 2,593        |
| GA010                                                                                   | GAS GENERATOR             | A       |                                    |               |                                                                    | 1          | 2,868    | 2,868        | 1          | 2,950    | 2,950        | 1          | 2,975                  | 2,975     |            |              |
| GA012                                                                                   | ENGINEERING SYSTEM MOD    | A       |                                    |               |                                                                    |            |          | 1,266        |            |          | 1,175        |            |                        |           |            | 1,128        |
| GA014                                                                                   | SPECIAL SUPPORT EQUIPMENT | A       |                                    |               |                                                                    |            |          | 47           |            |          | 48           |            |                        |           |            | 57           |
| GA830                                                                                   | PRODUCTION ENGINEERING    | A       |                                    |               |                                                                    |            |          | 599          |            |          | 470          |            |                        |           |            | 242          |
| <b>GRAND TOTAL</b>                                                                      |                           |         | <b>0</b>                           |               |                                                                    |            |          | <b>8,586</b> |            |          | <b>8,287</b> |            |                        |           |            | <b>6,995</b> |

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| B. APPROPRIATION/BUDGET ACTIVITY                         |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE     |                            |               |                              | A. DATE                   |                                |
|----------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| Other Procurement, Navy<br>BA 1: Ships Support Equipment |          |                       |                    |                   | LM2500 GAS TURBINE (0110)    |                            |               |                              | FEBRUARY 2000             |                                |
| Cost Element/<br>FISCAL YEAR                             | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <u>FY 99</u><br>(GA010)                                  | 1        | 2,868                 | NAVSEA             |                   | SS/OPTION                    | General Elec., Cinn, Ohio  | May-99        | May-00                       | YES                       |                                |
| <u>FY 00</u><br>(GA010)                                  | 1        | 2,950                 | NSWC PHILA, PA     |                   | WX                           | Unknown                    | Mar-00        | Jan-01                       | YES                       |                                |
| <u>FY 01</u><br>(GA010)                                  | 1        | 2,975                 | NSWC PHILA, PA     |                   | WX                           | Unknown                    | Mar-01        | Jan-02                       | YES                       |                                |
| D. REMARKS                                               |          |                       |                    |                   |                              |                            |               |                              |                           |                                |

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**BUDGET ITEM JUSTIFICATION SHEET**  
**P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY**

P-1 ITEM NOMENCLATURE

Allison 501-K Gas Turbine (81GF) (0120)

Program Element for Code B Items:

**BA-1: SHIPS SUPPORT EQUIPMENT**

Other Related Program Elements

|                              | Prior Years | ID Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | To Complete | Total  |
|------------------------------|-------------|---------|--|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| QUANTITY                     |             |         |  |         |         |         |         |         |         |         |             |        |
| COST<br>(In Millions)        |             |         |  | \$6.7   | \$8.3   | \$6.3   | \$7.0   | \$8.3   | \$8.0   | \$8.2   |             | \$52.8 |
| SPARES COST<br>(In Millions) |             |         |  |         |         |         |         |         |         |         |             | \$0.0  |

**ALLISON 501-K GAS TURBINE (81GF) (0120)**

The 501-K Series Gas Turbines are used to drive electrical generators in Ship Service Gas Turbine Generators (SSGTG). The 501-K17 is used on the CG-47 and DD-963 Class ships. The 501-K34 is an upgraded version used on the DDG-51 Class ships and is not interchangeable with the 501-K17.

**A. 501-K34 Stock Rotating Spares (GF001)**

The Stock Rotating Spares Program provides an engine as a single assembly for the replacement of an engine requiring depot repair. The current 501-K17 engine is being replaced by the ugraded more fuel efficient 501-K34 engine commencing with the DDG-51 Class. The 501-K34 upgraded engine can only be replaced with another 501-K34 upgraded engine. Therefore the two configurations must be initially spared separately and all spares procurement commencing with the FY-87 procurement have been the 501-K34 configuration. The 501-K34 inventory objective is 19 units. 14 units have been procured through FY 1999, and 5 units are included in the budget from FY 2000 - FY 2004. FY 1999 and FY 2000 pricing is based on exercising options from a previous contract. A new contract will be negotiated in FY 2001. Engine cost is expected to increase due to new clauses in the contract.

**B. Modification Program (GF007)**

Allison 501-K Gas Turbines are identified as the number one fleet issue by the Top Management Attention/Top Management Issues (TMA/TMI) Program, the Combatant Technical Issues Conference (CTIC), and the DDG-51 Top Tech Issue Program. Procurement of improved hardware for installation in the 501-K gas turbine is essential to increase engine reliability, Mean Time Between Removal (MTBR) and maintainability. Analysis of 501-K engineing performance data, TMA/TMI, Metrics, the DDG-51 Top Tech Issues, CTIC and the component improvement program has identified necessary improvements to correct 501-K deficiencies. The modifications will reduce failure rates of system components, improving 501-K and SSGTG readiness and address the Fleet's top maintenance and reliability issues. The additional requirement in FY 2003 and out will be used to resolve additional issues identify by the TMA/TMI, Metrics and the DDG-51 Top Tech Issues Programs. The specific additional issues addressed are Fuel Nozzles and Engine Controls.

Unit costs are not applicable since several types of items are being procured.

P-1 SHOPPING LIST

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------|
| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                | DATE:<br><b>FEBRUARY 2000</b> |
| P-40 CONTINUATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                |                               |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA-1: SHIPS SUPPORT EQUIPMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b><br><br><i>Allison 501-K Gas Turbine (81GF) (0120)</i> |                               |
| <p>C. Special Support Equipment (SSE) (GF009)</p> <p>Procurement of Gas Turbine SSE is required to provide increased SIMA and depot repair capability to support the DD-963, CG-47 and DDG-51 class ships. SIMA capability is enhanced by providing them SSE necessary to reduce engine change-outs and required to incorporate new modifications that will eliminate deficiencies identified through the TMA/TMI, Metrics and the DDG-51 Top Tech Issues Programs and enhance MTBR, reliability and maintainability. Procured SSE supports the depot by increasing repair capability and allowing installation of new modifications that will eliminate deficiencies identified through the TMA/TMI, Metrics and the DDG-51 top Tech Issues Programs and enhance MTBR, reliability and maintainability.</p> <p>Unit Costs are not applicable since several types of items are being procured.</p> <p>D. Production Engineering (GF830)</p> <p>The review and approval of any production contact technical documentation or the separate development of this documentation to include: Technical manuals, signal flow diagrams, PMS, production drawings, Provisioning Technical Documentation (PTD), and Allowance Parts Lists (APLs) and engineering in support of final design reviews.</p> <p>Unit Costs are not applicable since several types of items are being procured.</p> |                                                                                                |                               |

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|--------------------------------------------|---------------|-------------------------------|
| <b>WEAPONS SYSTEM COST ANALYSIS</b><br>P-5 | Weapon System | DATE:<br><b>FEBRUARY 2000</b> |
|--------------------------------------------|---------------|-------------------------------|

|                                                                                                         |         |                                                                                |
|---------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b><br><b>BA 1: SHIPS SUPPORT EQUIPMENT</b> | ID Code | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>Allison 501K-Gas Turbine (81GF) (0120)</b> |
|---------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------|

| COST CODE          | ELEMENT OF COST             | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |            |          |              |            |          |              |            |       |              |
|--------------------|-----------------------------|---------|------------------------------------|----------|-----------|------------|----------|--------------|------------|----------|--------------|------------|-------|--------------|
|                    |                             |         | Prior Years                        | FY 1999  |           |            | FY 2000  |              |            | FY 2001  |              |            |       |              |
|                    |                             |         | Total Cost                         | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost    | Total Cost | Quantity | Unit Cost    | Total Cost |       |              |
| GF001              | 501-K34                     |         |                                    |          |           | 1          | 1,131    | 1,131        | 1          | 1,143    | 1,143        | 1          | 1,303 | 1,303        |
| GF007              | MODIFICATION PROGRAM        |         |                                    |          |           |            |          | 5,155        |            |          | 6,886        |            |       | 4,654        |
| GF009              | SPECIAL SUPPORT EQUIP (SSE) |         |                                    |          |           |            |          | 164          |            |          | 202          |            |       | 200          |
| GF830              | PRODUCTION ENGINEERING      |         |                                    |          |           |            |          | 218          |            |          | 100          |            |       | 100          |
| <b>GRAND TOTAL</b> |                             |         | <b>0</b>                           |          |           | <b>0</b>   |          | <b>6,668</b> |            |          | <b>8,331</b> |            |       | <b>6,257</b> |

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P-1 SHOPPING LIST  
ITEM NO. 2

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|                                                               |               |                                 |
|---------------------------------------------------------------|---------------|---------------------------------|
| <b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b> | Weapon System | A. DATE<br><b>FEBRUARY 2000</b> |
|---------------------------------------------------------------|---------------|---------------------------------|

|                                                                                                            |                                                                                 |                               |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------|
| <b>B. APPROPRIATION/BUDGET ACTIVITY</b><br>Other Procurement, Navy<br><b>BA 1: Ships Support Equipment</b> | <b>C. P-1 ITEM NOMENCLATURE</b><br><b>Allison 501-K Marine Gas Turbine 0120</b> | <b>SUBHEAD</b><br><b>81GF</b> |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------|

| Cost Element/<br>FISCAL YEAR | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
|------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| <u>FY 99</u><br>GF001        | 1        | 1,131                 | NAVSEA             |                   | *SS/OPTION                   | Allison Indianapolis, IN   | DEC 98        | MAR 99                       | YES                       |                                |
| <u>FY 00</u><br>GF001        | 1        | 1,143                 | NSWC, PHILA        |                   | WX                           | Unknown                    | MAR 00        | MAR 01                       | YES                       |                                |
| <u>FY 01</u><br>GF001        | 1        | 1,303                 | NSWC, PHILA        |                   | WX                           | Unknown                    | MAY 01        | NOV 03                       | YES                       |                                |

D. REMARKS

\*Sole Source Justification. Original Equipment Manufacturer (OEM)

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| BUDGET ITEM JUSTIFICATION SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |            |  |         |         |         |         |                                                                                        |         | DATE:         |  |                |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|--|---------|---------|---------|---------|----------------------------------------------------------------------------------------|---------|---------------|--|----------------|-------|
| P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |            |  |         |         |         |         |                                                                                        |         | FEBRUARY 2000 |  |                |       |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA-1: Ships Support Equipment</b><br>Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |            |  |         |         |         |         | <b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b><br><br>STEAM PROPULSION IMPROVEMENT 81KQ/0157 |         |               |  |                |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |            |  |         |         |         |         | <b>OTHER RELATED PROGRAM ELEMENTS</b>                                                  |         |               |  |                |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Prior<br>Years | ID<br>Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003                                                                                | FY 2004 | FY 2005       |  | To<br>Complete | Total |
| <b>QUANTITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |            |  |         |         |         |         |                                                                                        |         |               |  |                |       |
| <b>EQUIPMENT COST<br/>(In Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |            |  | \$0.6   | 0*      | 0*      | 0*      | 0*                                                                                     | 0*      | 0*            |  |                | \$0.6 |
| <b>SPARES COST<br/>(In Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |            |  |         |         |         |         |                                                                                        |         |               |  |                |       |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |            |  |         |         |         |         |                                                                                        |         |               |  |                |       |
| The Steam Propulsion Improvement program provides for ship movement through the water and in addition provides power to ships combat and habitability systems, whether electrical or steam dependent. At any given time, due to propulsion plant casualties ship propulsion systems may be operating at reduced capability, adversely affecting the ship's mission(s). The Steam Propulsion Improvement program encompasses steam and diesel propulsion surface ships in the fleet, Provides for material upgrades to propulsion systems resulting in increased readiness, safety and reliability. Items can be installed during a Regular Overhaul, Selected Restricted Availability, Restricted availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team. |                |            |  |         |         |         |         |                                                                                        |         |               |  |                |       |
| *This program was consolidated with P-1 #24, Items Under \$5 Million, BLI:0981, in FY 2000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |  |         |         |         |         |                                                                                        |         |               |  |                |       |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |  |         |         |         |         | DATE:<br>February 2000                                                            |         |         |         |                |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|--|---------|---------|---------|---------|-----------------------------------------------------------------------------------|---------|---------|---------|----------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br>OTHER PROCUREMENT, NAVY<br>BA-1: Ships Support Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |            |  |         |         |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><br>OTHER PROPULSION EQUIPMENT (81GG) (0180) |         |         |         |                |        |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |            |  |         |         |         |         | OTHER RELATED PROGRAM ELEMENTS                                                    |         |         |         |                |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Prior<br>Years | ID<br>Code |  | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002                                                                           | FY 2003 | FY 2004 | FY 2005 | To<br>Complete | Total  |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |            |  |         |         |         |         |                                                                                   |         |         |         |                |        |
| EQUIPMENT COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |            |  |         | \$12.0  | 0*      | 0*      | 0*                                                                                | 0*      | 0*      | 0*      |                | \$12.0 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |            |  |         |         |         |         |                                                                                   |         |         |         |                |        |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |            |  |         |         |         |         |                                                                                   |         |         |         |                |        |
| <p><b>OTHER PROPULSION EQUIPMENT (81GG):</b><br/>                     Other Propulsion Equipment includes: Solar Marine Gas Turbine (MGT) Modification Program (GG024) for improvements to T1302S gas turbine engines used for driving electric pulse generators on MCM Class ships; DD 963/DDG 993 SSS clutches (GG034); MHC Diesel Engines (GG040) used for propulsion and electrical power generation; MCM/MHC Diesel Engine Improvement Program (GG052) to improve reliability and maintainability of installed MCM and MHC diesel engines; Integrated Ship Control System (ISCS) (GG053) to replace the existing MCM Machinery Control System (MCS) and implement condition-based maintenance; and Installation of Equipment (GG51N) to support fleet modernization. Procurement of improved hardware, including modification kits as a result of Product Improvement Programs, is essential for maintaining/increasing engine reliability. Procurement of special tooling and support equipment is required to facilitate incorporation of modifications as well as enable routine and expanded repair of equipment to improve life cycle support. The procurement of technical documentation, e.g., technical manuals, PMS, Level III production drawings, etc., is essential to maintain complete life cycle support for these engines and related equipment.</p> |                |            |  |         |         |         |         |                                                                                   |         |         |         |                |        |
| <p>*This program was consolidated with Minesweeping Equipment, BLI:0975, in FY 2000.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |            |  |         |         |         |         |                                                                                   |         |         |         |                |        |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |  |         |         |         |         |                                                                                                                                                 |         | DATE: FEBRUARY 2000 |  |             |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--|---------|---------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------|--|-------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA-1: Ships Support Equipment</b><br>Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                            |             |         |  |         |         |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><br><p style="text-align: center;"><b>OTHER GENERATORS (81G6) (0260)</b></p> OTHER RELATED PROGRM ELEMENTS |         |                     |  |             |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Prior Years | ID Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003                                                                                                                                         | FY 2004 | FY 2005             |  | To Complete | Total  |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |  |         |         |         |         |                                                                                                                                                 |         |                     |  |             | 0      |
| EQUIPMENT COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |  | \$18.1  | 0*      | 0*      | 0*      | 0*                                                                                                                                              | 0*      | 0*                  |  |             | \$18.1 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |  |         |         |         |         |                                                                                                                                                 |         |                     |  |             | 0      |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |  |         |         |         |         |                                                                                                                                                 |         |                     |  |             |        |
| <p><b>SHIP ALTERATIONS:</b> To replace obsolete, unsupportable and in some cases, underpowered equipment now in use. This program is applicable to all ship types. Installation agents and types of availabilities required vary with ship and equipment type. This is a continuing program composed of both maintenance items and newly developed improvements.</p> <p>*This program was consolidated with P-1 #24, Items Under \$5 Million, BLI:0981, in FY 2000.</p> |             |         |  |         |         |         |         |                                                                                                                                                 |         |                     |  |             |        |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                 |                |            |  |         |         |         |         | DATE:<br>FEBRUARY 2000                                                |         |         |  |                |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|--|---------|---------|---------|---------|-----------------------------------------------------------------------|---------|---------|--|----------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA-1: Ships Support Equipment</b>                                                                                                                                                                 |                |            |  |         |         |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><b>OTHER PUMPS (81GP) (0320)</b> |         |         |  |                |       |
| Program Element for Code B Items:                                                                                                                                                                                                                                       |                |            |  |         |         |         |         | OTHER RELATED PROGRM ELEMENTS                                         |         |         |  |                |       |
|                                                                                                                                                                                                                                                                         | Prior<br>Years | ID<br>Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003                                                               | FY 2004 | FY 2005 |  | To<br>Complete | Total |
| QUANTITY                                                                                                                                                                                                                                                                |                |            |  |         |         |         |         |                                                                       |         |         |  |                | 0     |
| EQUIPMENT COST<br>(In Millions)                                                                                                                                                                                                                                         |                |            |  | \$1.0   | 0*      | 0*      | 0*      | 0*                                                                    | 0*      | 0*      |  |                | \$1.0 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                            |                |            |  |         |         |         |         |                                                                       |         |         |  |                | 0     |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                               |                |            |  |         |         |         |         |                                                                       |         |         |  |                |       |
| <p>OTHER PUMPS -</p> <p>Purchases various machinery pumps used in shipboard fluid systems such as fireman, fuel oil, portable water, lube oil, waste and drain.</p> <p>*This program was consolidated with P-1 #24, Items Under \$5 Million, BLI: 0891, in FY 2000.</p> |                |            |  |         |         |         |         |                                                                       |         |         |  |                |       |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--------------|--------------|--------------|--------------|-----------------------------------------------------------------------------|----------------------------|--------------|--------------|--------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |              |              |              |              |                                                                             | DATE: <b>February 2000</b> |              |              |              |               |
| <b>P-40</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         |              |              |              |              |                                                                             |                            |              |              |              |               |
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |         |              |              |              |              | P-1 ITEM NOMENCLATURE<br><b>Submarine Propellers BLI: 051000 SBHD: 81GQ</b> |                            |              |              |              |               |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |              |              |              |              | Other Related Program Elements<br><b>N/A</b>                                |                            |              |              |              |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Prior Years | ID Code | FY 1998      | FY 1999      | FY 2000*     | FY 2001      | FY 2002                                                                     | FY 2003                    | FY 2004      | FY 2005      | To Complete  | Total         |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |              |              |              |              |                                                                             |                            |              |              |              |               |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         | <b>\$0.0</b> | <b>\$7.7</b> | <b>\$0.0</b> | <b>\$3.8</b> | <b>\$4.5</b>                                                                | <b>\$10.7</b>              | <b>\$0.0</b> | <b>\$0.0</b> | <b>\$0.0</b> | <b>\$26.7</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |         |              |              |              |              |                                                                             |                            |              |              |              | <b>\$0.0</b>  |
| <p>GQ012 - VA CLASS PROPULSOR FOR SSN 21* - Specific performance deficiencies associated with the SEAWOLF propulsor have been identified during SEAWOLF lead ship post delivery trials. Installing a VIRGINIA class propulsor on the SEAWOLF will potentially correct the performance deficiency, mitigate the technical risk, and minimize the necessary capital investment, as well as placing our two quietest submarine classes on a common design. The funding profile covers procurement of propulsor components in FY 01, design of necessary stern modifications, and installation of these modifications during the FY 03 SSN 21 Selected Restricted Availability.</p> <p>The Virginia Class propulsor improved on the design developed for SEAWOLF. Using a Virginia class propulsor establishes a common propulsor design between the SEAWOLF and VIRGINIA classes, resulting in reduced infrastructure and support costs. Because the VIRGINIA class propulsor design is well developed, the technical risk and costs associated with installation on the SEAWOLF are minimized. Also, by installing a VIRGINIA Class propulsor on SSN 21, one complete SEAWOLF propulsor spare set (including propulsor bearing, shaft, and miscellaneous components) will not need to be procured. Additionally, the VIRGINIA class will also benefit from the full scale testing on the SEAWOLF.</p> <p>* "Propeller funding in FY 00 is reflected in BLI 094100."</p> |             |         |              |              |              |              |                                                                             |                            |              |              |              |               |

P-1 SHOPPING LIST

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                                   |         |                                    | Weapon System |                                                                              |            |          |           |            |          |           |            | DATE:<br>February 2000 |           |            |       |
|------------------------------------------------------------------------------------------|---------------------------------------------------|---------|------------------------------------|---------------|------------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------|------------------------|-----------|------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                                   |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Submarine Propellers BLI: 051000 SBHD: 81GQ |            |          |           |            |          |           |            |                        |           |            |       |
| COST CODE                                                                                | ELEMENT OF COST                                   | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                              |            |          |           |            |          |           |            |                        |           |            |       |
|                                                                                          |                                                   |         | Prior Years                        | FY 1998       |                                                                              |            | FY 1999  |           |            | FY 2000  |           |            | FY 2001                |           |            |       |
|                                                                                          |                                                   |         | Total Cost                         | Quantity      | Unit Cost                                                                    | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity               | Unit Cost | Total Cost |       |
| GQ012                                                                                    | Submarines (N87)<br>Fixed Propulsor Subcomponents | A       |                                    |               |                                                                              |            | 1        | 7,751     | 7,751      |          |           |            |                        | 1         | 3,757      | 3,757 |
|                                                                                          |                                                   |         | 0                                  |               |                                                                              | 0          |          |           | 7,751      |          |           |            | 0                      |           |            | 3,757 |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                                  |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|--------------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>SUBMARINE PROPELLERS BLI: 051000 SBHD: 81GQ</b> |                            |               |                                 | SUBHEAD                   |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                   | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (99)<br>GQ012<br><br>Fixed Propulsor Subcomponents                                      | 1        | 7751                  | NAVSEA             |                   | SS/FPI                                                                         | United Defense, MN         | 1/99          | 11/02                           | YES                       |                                |
| FISCAL YEAR (01)<br>GQ012<br><br>Fixed Propulsor Subcomponents                                      | 1        | 3757                  | NAVSEA             |                   | SS/FPI                                                                         | United Defense, MN         | 1/01          | 12/02                           | YES                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                                |                            |               |                                 |                           |                                |



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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A              |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br><b>Submarine Propellers BLI: 051000 SBHD: 81GQ</b> |     |         |     |         |     |         |     | DATE<br><br><b>Feb-00</b> |  |
|-------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|----------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|---------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ship Support Equipment</b> |     |         |     |         |     |         |     | Installing Agent<br><br><b>United Defense</b>                                                |     |         |     |         |     |         |     |                           |  |
| 1ST QTR                                                                                         |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                      |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                           |  |
| E.I./L                                                                                          | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                       | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                           |  |
| FY 1998                                                                                         |     |         |     |         |     |         |     | FY 1999                                                                                      |     |         |     |         |     |         |     |                           |  |
|                                                                                                 |     |         |     |         |     |         |     |                                                                                              |     |         |     |         |     |         |     |                           |  |
| FY 2000                                                                                         |     |         |     |         |     |         |     | FY 2001                                                                                      |     |         |     |         |     |         |     |                           |  |
|                                                                                                 |     |         |     |         |     |         |     |                                                                                              |     |         |     |         |     |         |     |                           |  |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A              |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br><b>Submarine Propellers BLI: 051000 SBHD: 81GQ</b> |     |           |     |         |     |         |     | DATE<br><br><b>Feb-00</b> |  |
|-------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|----------------------------------------------------------------------------------------------|-----|-----------|-----|---------|-----|---------|-----|---------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ship Support Equipment</b> |     |         |     |         |     |         |     | Installing Agent<br><br><b>United Defense</b>                                                |     |           |     |         |     |         |     |                           |  |
| 1ST QTR                                                                                         |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                      |     | 2ND QTR   |     | 3RD QTR |     | 4TH QTR |     |                           |  |
| E.I./L                                                                                          | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                       | QTY | E.I./L    | QTY | E.I./L  | QTY | E.I./L  | QTY |                           |  |
| FY 2002                                                                                         |     |         |     |         |     |         |     | FY 2003                                                                                      |     |           |     |         |     |         |     |                           |  |
|                                                                                                 |     |         |     |         |     |         |     |                                                                                              |     | U Defense | 1   |         |     |         |     |                           |  |
| FY 2004                                                                                         |     |         |     |         |     |         |     | FY 2005                                                                                      |     |           |     |         |     |         |     |                           |  |
|                                                                                                 |     |         |     |         |     |         |     |                                                                                              |     |           |     |         |     |         |     |                           |  |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                      |                |            |  |         |         |                                                                               |         | DATE:<br>FEBRUARY 2000 |         |         |                |       |
|------------------------------------------------------------------------------------------------------------------------------|----------------|------------|--|---------|---------|-------------------------------------------------------------------------------|---------|------------------------|---------|---------|----------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>OTHER PROCUREMENT, NAVY<br>BA-1: Ships Support Equipment                                    |                |            |  |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><i>OtherPropellers and Shafts (0540)</i> |         |                        |         |         |                |       |
| Program Element for Code B Items:<br>N/A                                                                                     |                |            |  |         |         | OTHER RELATED PROGRAM ELEMENTS                                                |         |                        |         |         |                |       |
|                                                                                                                              | Prior<br>Years | ID<br>Code |  | FY 1999 | FY 2000 | FY 2001                                                                       | FY 2002 | FY 2003                | FY 2004 | FY 2005 | To<br>Complete | Total |
| QUANTITY                                                                                                                     |                |            |  | N/A     | N/A     | N/A                                                                           | N/A     | N/A                    | N/A     | N/A     | N/A            | 0     |
| EQUIPMENT COST<br>(In Millions)                                                                                              |                |            |  | \$1.1   | \$0.0   | \$0.0                                                                         | \$0.0   | \$0.0                  | \$0.0   | \$0.0   | \$0.0          | \$1.1 |
| SPARES COST<br>(In Millions)                                                                                                 |                |            |  |         |         |                                                                               |         |                        |         |         |                |       |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                    |                |            |  |         |         |                                                                               |         |                        |         |         |                |       |
| <p>Starting with the FY 2000 budget, this program was consolidated into the Items less than \$5 million - Line Item 24 .</p> |                |            |  |         |         |                                                                               |         |                        |         |         |                |       |

CLASSIFICATION:

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |            |         |               |                |               |                                                                                   | DATE:<br><b>February 2000</b> |               |               |                |                |
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| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |         |               |                |               | P-1 ITEM NOMENCLATURE<br><b>Other Navigation Equipment BLI: 067000 SBHD: 81GW</b> |                               |               |               |                |                |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |            |         |               |                |               | Other Related Program Elements                                                    |                               |               |               |                |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Prior<br>Years | ID<br>Code | FY 1998 | FY 1999       | FY 2000        | FY 2001       | FY 2002                                                                           | FY 2003                       | FY 2004       | FY 2005       | To<br>Complete | Total          |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |            |         |               |                |               |                                                                                   |                               |               |               |                |                |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |            |         | <b>\$58.7</b> | <b>\$100.0</b> | <b>\$33.4</b> | <b>\$52.1</b>                                                                     | <b>\$28.1</b>                 | <b>\$17.3</b> | <b>\$17.9</b> |                | <b>\$307.5</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |         |               |                |               |                                                                                   |                               |               |               |                | <b>\$0.0</b>   |
| <p>PROGRAM DESCRIPTION/JUSTIFICATION:</p> <p>Unit costs are various.</p> <p>This is a continuing program composed of both maintenance equipment and newly developed improvements required for maintenance, shipalts, and training; including a cross section of navigation type equipment as follows:</p> <p>GW006: FY 1999 and outyear maintenance component funds satisfy depot and organizational maintenance requirements of existing AN/WSN-2 and AN/WSN-5 navigation systems. Specifically, these funds cover the procurement of major components such as Inertial Measuring Units (IMUs), gyroscopes, accelerometers, and depot test equipment. These components are essential to the operation and performance of AN/WSN-2/5 inertial navigation systems. Procurements associated with these components ensure the operational availability and performance of the navigation systems to support ship and combat system mission requirements. Units procured support the pipeline requirements of AN/WSN-2/5 inertial navigation systems given the Fleet population and usage rates. Procurement of maintenance components for AN/WSN-2/5 will continue during transition to AN/WSN-7 Ring Laser Gyro Navigator. Depot test equipment funds support checkout and testing of these major components in a system configuration to verify performance prior to being dubbed "ready for issue".</p> <p>GW013: FY 1999 and outyear funds for Navigation Field Change Kits procure reliability and maintainability improvements and corrections for various conventional navigation equipment including the Dead Reckoning Analyzer Indicator (DRAI), plotters, gyro compasses, Electromagnetic Log (EM Log), Doppler Sonar Velocity Log (DSVL), Multi-Speed Repeaters (MSR), and Ship's Inertial Navigation System (SINS) components. These improvements are required to keep Fleet-installed equipment operating to a basic level.</p> <p>GW014: FY 1999 funds are required for replacement of the AN/WSN-5 Input/Output Console currently installed in various surface combatants (OA-7984 and OL-267) with the OL-405/WSN-5. This replacement is required to improve the current operational availability and life cycle cost of the input/output console and ensure the navigation system is in a state of operational readiness. NAVSEA completed procurement in FY98, 11 units for backfit on CG 49 Class ships, one unit per ship, at an estimated total cost of \$1M. SPAWAR (Norfolk) is the installing agent.</p> |                |            |         |               |                |               |                                                                                   |                               |               |               |                |                |

P-1 SHOPPING LIST

CLASSIFICATION:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                          |                      |
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| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          | DATE:                |
| <b>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          | <b>February 2000</b> |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P-1 ITEM NOMENCLATURE                                    |                      |
| <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Other Navigation Equipment BLI: 067000 SBHD: 81GW</b> |                      |
| <p>GW029: FY 1999 and out funds are required to support procurement and implementation of Engineering Change Proposals (ECPs)/Field Change (FC) Kits, alterations and update of associated technical documentation which provide reliability and maintainability improvements, corrections and upgrades for various Inertial Navigation Systems (AN/WSN-2, AN/WSN-3, AN/WSN-5, AN/WSN-7) and Aircraft Inertial Alignment Systems (AIAS and CVNS). Additionally, funds support procurement of hardware and software changes to the navigation suite required to integrate with Ring Laser Gyro Navigator (AN/WSN-7). Current product improvements include:</p> <ul style="list-style-type: none"> <li>- Field Change #1 to the AN/WSN-2 provides product improvement changes and additions to the basic system equipment which will improve retainability, maintainability and sustainability of the hardware.</li> <li>- Field Change #7 to the AN/WSN-5 incorporates engineering changes for product improvement and reliability enhancements. The primary change modifies the control monitor circuit card in order to avoid premature IMU failures and Inverter failures. In addition, modifications are made to the NTDS Type D High Level Serial sections to alleviate improper fault indications and maintain data integrity.</li> <li>- Field Change #8 to the AN/WSN-5 incorporates modifications to the AN/WSN-5 Low Level Serial operational program to correct interface and program deficiencies experienced in the Fleet and identified during OTL-148 investigation.</li> <li>- Field Change #9 to the AN/WSN-5 incorporates modifications to the AN/WSN-5 GPS operational program to improve the navigation digital data outputs correcting problems and providing enhancements to TOMAHAWK missile alignments.</li> <li>- CA-64(XN-1)U shipalt replaces the out of production OA-7984 thereby improving the current operational availability and life cycle cost and ensuring that the navigation system is in a state of operational readiness.</li> <li>- CDU shipalt replaces the Input/Output console on RLGN backfitted ships thereby improving interface to the AN/WSN-7.</li> <li>- CVNS Operational Software upgrade corrects outstanding PPRs and testing including correction to SSW-1D Damping Mode Indication.</li> </ul> <p>Additionally, AN/WSN-7 operational improvement field change initiatives include AN/WSN-2 replacement, NAVSSI IDS modification; Lever Arm definition; Voyage Management System (VMS)/CDU integration; BFTT integration; vertical deflection compensation; CDU enhancements; and ATM implementation.</p> <p>GW031: FY 1999 and out Dual Miniature Navigation System (DMINS) ECP/documentation funds procure DMINS field changes, replace obsolete automated test equipment/computer at the DMINS Repair Depot, procure Inertial Measuring Unit (IMU) reliability improvements and update of DMINS technical documentation.</p> <p>GW035: FY 1999 and out year Ring Laser Gyro Navigator (RLGN) - AN/WSN-7 funds support the acquisition and implementation of Ring Laser Gyro (RLG) technology for Fleet shipboard use. Congress mandated competitive procurement of a single RLGN system for surface and sub-surface applications (backfit/forward fit). The AN/WSN-7, and it's variant the WSN-7B, replace the AN/WSN-1, -2, -3 and -5, providing commonality and correcting existing inadequacies identified in these systems in the areas of maintainability, performance, environmental effects, reliability and ownership costs. Basic RDT&amp;E efforts were funded in FY94 under P.E. 0604562N, Project Number 00236. The Development Test and Evaluation Schedule was as follows: DT-IIa=1/96; DT-IIb=4/96; DT-IIc=6/96; DT-IId=1/97; OA=11/96; OT&amp;E=7/97. Milestone III was achieved 10/97 and a re-validated ORD was signed 12/97. NAVSEA will procure a total of 214 AN/WSN-7 shipsets and 50 AN/WSN-7B shipsets for backfit on 49 submarines (AN/WSN-2/-3), 149 surface combatants (AN/WSN-2/-5), 9 carriers (CVNS), 4 flagships (2 AGFs and 2 LCCs) and 3 LBTFs at an estimated total cost (including installation) of \$223.7M. Procurement began in FY95, using FY95 and prior AN/WSN-2/5 Field Change funds (GW029) and installation began in FY97 on board CG 47 Class ships. SPAWAR, Norfolk will coordinate the AIT teams for surface ships. Shipsets will be installed as shown on the P-3A.</p> |                                                          |                      |

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**Other Navigation Equipment BLI: 067000 SBHD: 81GW**

GW830: FY 1999 and outyear funds are required for AN/WSN-2/5/7 and Aircraft Carrier Navigation System (CVNS) production engineering efforts which provide the necessary management/technical support for hardware/software procurements and system integration. Funds cover value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering and logistic supportability efforts designed and incorporated into the production manufacturing process.

GW5IN: FY 1999 and outyear Installation funding identified supports installation of OL-405 I/O Consoles (Shipalt 370) on board CG 47 Class ships and installation of RLGN system on board surface combatants, submarine platforms, and aircraft carriers.

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION **UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                 |         |                                    |          |           | Weapon System |                                                                                    |           |            |          |           | DATE:<br>February 2000 |          |           |            |        |
|------------------------------------------------------------------------------------------|---------------------------------|---------|------------------------------------|----------|-----------|---------------|------------------------------------------------------------------------------------|-----------|------------|----------|-----------|------------------------|----------|-----------|------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                 |         |                                    |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Other Navigation Equipment BLI: 067000 SBHD: 81GW |           |            |          |           |                        |          |           |            |        |
| COST CODE                                                                                | ELEMENT OF COST                 | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |               |                                                                                    |           |            |          |           |                        |          |           |            |        |
|                                                                                          |                                 |         | Prior Years                        | FY 1999  |           |               | FY 2000                                                                            |           |            | FY 2001  |           |                        |          |           |            |        |
|                                                                                          |                                 |         | Total Cost                         | Quantity | Unit Cost | Total Cost    | Quantity                                                                           | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost             | Quantity | Unit Cost | Total Cost |        |
|                                                                                          | <u>SUBMARINES - N87</u>         |         |                                    |          |           |               |                                                                                    |           |            |          |           |                        |          |           |            |        |
| GW006                                                                                    | AN/WSN-2 MAINT COMPONENTS       |         |                                    |          |           |               |                                                                                    | 166       |            |          | 171       |                        |          |           |            | 176    |
| GW013                                                                                    | NORFOLK NAVIGATION FC KITS      |         |                                    |          |           |               |                                                                                    | 1,230     |            |          | 245       |                        |          |           |            | 260    |
| GW029                                                                                    | AN/WSN-2/7 ECP/FC KITS          |         |                                    |          |           |               |                                                                                    | 4,371     |            |          | 7,083     |                        |          |           |            | 6,524  |
| GW031                                                                                    | DMINS                           |         |                                    |          |           |               |                                                                                    | 60        |            |          | 0         |                        |          |           |            | 0      |
| GW035                                                                                    | RING LASER GYRO NAV(AN/WSN-7A   | A       |                                    |          |           | 8             |                                                                                    | 742       |            | 41       | 541       |                        | 11       |           | 668        | 7,348  |
| GW830                                                                                    | PROD ENGINEERING FOR AN/WSN-2/7 |         |                                    |          |           |               |                                                                                    | 446       |            |          | 785       |                        |          |           |            | 570    |
|                                                                                          | PROCUREMENT SUB-TOTAL           |         |                                    |          |           |               |                                                                                    | 12,209    |            |          | 30,465    |                        |          |           |            | 14,878 |
| GW5IN                                                                                    | INSTALLATION OF EQUIPMENT (FMP) |         |                                    |          |           |               |                                                                                    | 0         |            |          | 1,285     |                        |          |           |            | 4,168  |
|                                                                                          | INSTALLATION SUB-TOTAL          |         |                                    |          |           |               |                                                                                    | 0         |            |          | 1,285     |                        |          |           |            | 4,168  |
|                                                                                          | TOTAL - N87                     |         |                                    |          |           |               |                                                                                    | 12,209    |            |          | 31,750    |                        |          |           |            | 19,046 |
|                                                                                          | <u>SURFACE SHIPS - N86</u>      |         |                                    |          |           |               |                                                                                    |           |            |          |           |                        |          |           |            |        |
| GW006                                                                                    | AN/WSN-2/5 MAINT COMPONENTS     |         |                                    |          |           |               |                                                                                    | 4,271     |            |          | 3,623     |                        |          |           |            | 0      |
| GW013                                                                                    | NORFOLK NAVIGATION FC KITS      |         |                                    |          |           |               |                                                                                    | 3,266     |            |          | 15,274    |                        |          |           |            | 282    |
| GW014                                                                                    | AN/WSN-5 I/O CONSOLE            | A       |                                    |          |           |               |                                                                                    | 0         |            |          | 0         |                        |          |           |            | 0      |
| GW029                                                                                    | AN/WSN-2/5/7 ECP/FC KITS        |         |                                    |          |           |               |                                                                                    | 8,396     |            |          | 15,037    |                        |          |           |            | 5,189  |
| GW035                                                                                    | RING LASER GYRO NAV (AN/WSN-7A  | A       |                                    |          |           | 25            |                                                                                    | 718       |            | 27       | 699       |                        |          |           |            | 0      |
| GW830                                                                                    | PROD ENGINEERING AN/WSN-2/5/7   |         |                                    |          |           |               |                                                                                    | 921       |            |          | 863       |                        |          |           |            | 437    |
|                                                                                          | PROCUREMENT SUB-TOTAL           |         |                                    |          |           |               |                                                                                    | 34,804    |            |          | 53,670    |                        |          |           |            | 5,908  |
| GW5IN                                                                                    | INSTALLATION OF EQUIPMENT (FMP) |         |                                    |          |           |               |                                                                                    | 4,998     |            |          | 9,308     |                        |          |           |            | 6,739  |
|                                                                                          | INSTALLATION SUB-TOTAL          |         |                                    |          |           |               |                                                                                    | 4,998     |            |          | 9,308     |                        |          |           |            | 6,739  |
|                                                                                          | TOTAL - N86                     |         |                                    |          |           |               |                                                                                    | 39,802    |            |          | 62,978    |                        |          |           |            | 12,647 |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                                              |         |                                    |          |           | Weapon System                                                                              |          |           |            |          |           | DATE:<br>February 2000 |  |        |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|------------------------------------|----------|-----------|--------------------------------------------------------------------------------------------|----------|-----------|------------|----------|-----------|------------------------|--|--------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                                              |         |                                    |          |           | ID Code P-1 ITEM NOMENCLATURE/SUBHEAD<br>Other Navigation Equipment BLI: 067000 SBHD: 81GW |          |           |            |          |           |                        |  |        |
| COST CODE                                                                                | ELEMENT OF COST                                              | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |                                                                                            |          |           |            |          |           |                        |  |        |
|                                                                                          |                                                              |         | Prior Years                        | FY 1999  |           |                                                                                            | FY 2000  |           |            | FY 2001  |           |                        |  |        |
|                                                                                          |                                                              |         | Total Cost                         | Quantity | Unit Cost | Total Cost                                                                                 | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost             |  |        |
| GW024                                                                                    | <u>AMPHIBIOUS - N85</u><br>AN/KSQ-1<br>PROCUREMENT SUB-TOTAL |         |                                    |          |           |                                                                                            |          | 600       |            |          | 0         |                        |  | 0      |
|                                                                                          |                                                              |         |                                    |          |           |                                                                                            |          | 600       |            |          | 0         |                        |  | 0      |
| GW029                                                                                    | <u>AIRCRAFT CARRIERS - N88</u><br>CVNS/WSN-7 ECP/FC KITS     |         |                                    |          |           |                                                                                            |          | 3,264     |            |          | 1,851     |                        |  | 844    |
| GW031                                                                                    | DMINS ECP/DOCUMENTATION                                      |         |                                    |          |           |                                                                                            |          | 60        |            |          | 0         |                        |  | 68     |
| GW035                                                                                    | RING LASER GYRO NAV (AN/WSN-7)                               | A       |                                    |          | 2         | 931                                                                                        |          | 1,862     | 1          | 826      | 826       |                        |  | 0      |
| GW830                                                                                    | PROD ENGINEERING CVNS/AN/WSN-7<br>PROCUREMENT SUB-TOTAL      |         |                                    |          |           |                                                                                            |          | 338       |            |          | 301       |                        |  | 262    |
|                                                                                          |                                                              |         |                                    |          |           |                                                                                            |          | 5,524     |            |          | 2,978     |                        |  | 1,174  |
| GW5IN                                                                                    | INSTALLATION OF EQUIPMENT (FMP)<br>INSTALLATION SUB-TOTAL    |         |                                    |          |           |                                                                                            |          | 544       |            |          | 2,250     |                        |  | 558    |
|                                                                                          |                                                              |         |                                    |          |           |                                                                                            |          | 544       |            |          | 2,250     |                        |  | 558    |
|                                                                                          | TOTAL - N88                                                  |         |                                    |          |           |                                                                                            |          | 6,068     |            |          | 5,228     |                        |  | 1,732  |
|                                                                                          | TOTAL - PROCUREMENT                                          |         |                                    |          |           |                                                                                            |          | 53,137    |            |          | 87,113    |                        |  | 21,960 |
|                                                                                          | TOTAL - INSTALLATION                                         |         |                                    |          |           |                                                                                            |          | 5,542     |            |          | 12,843    |                        |  | 11,465 |
|                                                                                          | GRAND TOTAL                                                  |         |                                    |          |           |                                                                                            |          | 0         |            |          | 99,956    |                        |  | 33,425 |
|                                                                                          |                                                              |         |                                    |          |           |                                                                                            |          | 0         |            |          | 99,956    |                        |  | 33,425 |

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| WEAPONS SYSTEM COST ANALYSIS  |                                  |          |           | Weapon System |          |                                                   |            |          |           |            |          | DATE:         |             |          |       |          |      |
|-------------------------------|----------------------------------|----------|-----------|---------------|----------|---------------------------------------------------|------------|----------|-----------|------------|----------|---------------|-------------|----------|-------|----------|------|
| P-5                           |                                  |          |           |               |          |                                                   |            |          |           |            |          | February 2000 |             |          |       |          |      |
| APPROPRIATION/BUDGET ACTIVITY |                                  |          |           | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD                     |            |          |           |            |          |               |             |          |       |          |      |
| Other Procurement, Navy       |                                  |          |           |               |          | Other Navigation Equipment BLI: 067000 SBHD: 81GW |            |          |           |            |          |               |             |          |       |          |      |
| BA-1 Ships Support Equipment  |                                  |          |           |               |          |                                                   |            |          |           |            |          |               |             |          |       |          |      |
| COST CODE                     | ELEMENT OF COST                  | FY 2002  |           | FY 2003       |          |                                                   | FY 2004    |          |           | FY 2005    |          |               | To Complete |          | Total |          |      |
|                               |                                  | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost                                         | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost     | Total Cost  | Quantity | Cost  | Quantity | Cost |
|                               |                                  |          |           |               |          |                                                   |            |          |           |            |          |               |             |          |       |          |      |
|                               | <u>SUBMARINES - N87</u>          |          |           |               |          |                                                   |            |          |           |            |          |               |             |          |       |          |      |
| GW006                         | AN/WSN-2 MAINTENANCE COMPON      |          |           | 181           |          | 186                                               |            |          | 192       |            |          | 198           |             |          |       |          |      |
| GW013                         | NORFOLK NAVIGATION FC KITS       |          |           | 275           |          | 290                                               |            |          | 293       |            |          | 291           |             |          |       |          |      |
| GW029                         | AN/WSN-2/7 ECP/FC KITS           |          |           | 7,293         |          | 9,401                                             |            |          | 4,152     |            |          | 6,209         |             |          |       |          |      |
| GW031                         | DMINS                            |          |           | 0             |          | 0                                                 |            |          | 0         |            |          | 0             |             |          |       |          |      |
| GW035                         | RING LASER GYRO NAV(AN/WSN-7A/B) |          |           | 0             |          | 0                                                 |            |          | 0         |            |          | 0             |             |          |       |          |      |
| GW830                         | PROD ENGINEERING FOR AN/WSN-2/7  |          |           | 433           |          | 444                                               |            |          | 448       |            |          | 451           |             |          |       |          |      |
|                               | PROCUREMENT SUB-TOTAL            |          |           | 8,182         |          | 10,321                                            |            |          | 5,085     |            |          | 7,149         |             |          |       |          |      |
| GW5IN                         | INSTALLATION OF EQUIPMENT (FMP)  |          |           | 6,524         |          | 2,952                                             |            |          | 0         |            |          | 0             |             |          |       |          |      |
|                               | INSTALLATION SUB-TOTAL           |          |           | 6,524         |          | 2,952                                             |            |          | 0         |            |          | 0             |             |          |       |          |      |
|                               | TOTAL - N87                      |          |           | 14,706        |          | 13,273                                            |            |          | 5,085     |            |          | 7,149         |             |          |       |          |      |
|                               | <u>SURFACE SHIPS - N86</u>       |          |           |               |          |                                                   |            |          |           |            |          |               |             |          |       |          |      |
| GW006                         | AN/WSN-2/5 MAINT COMPONENTS      |          |           | 0             |          | 0                                                 |            |          | 0         |            |          | 0             |             |          |       |          |      |
| GW013                         | NORFOLK NAVIGATION FC KITS       |          |           | 290           |          | 299                                               |            |          | 302       |            |          | 305           |             |          |       |          |      |
| GW014                         | AN/WSN-5 I/O CONSOLE             |          |           | 0             |          | 0                                                 |            |          | 0         |            |          | 0             |             |          |       |          |      |
| GW029                         | AN/WSN-2/5/7 ECP/FC KITS         |          |           | 12,117        |          | 4,061                                             |            |          | 5,193     |            |          | 3,922         |             |          |       |          |      |
| GW035                         | RING LASER GYRO NAV (AN/WSN-7    | 22       | 661       | 14,542        | 2        | 655                                               | 1,310      |          | 0         | 8          | 513      | 4,104         |             |          |       |          |      |
| GW830                         | PROD ENGINEERING AN/WSN-2/5/7    |          |           | 700           |          | 554                                               |            |          | 559       |            |          | 566           |             |          |       |          |      |
|                               | PROCUREMENT SUB-TOTAL            |          |           | 27,649        |          | 6,224                                             |            |          | 6,054     |            |          | 8,897         |             |          |       |          |      |
| GW5IN                         | INSTALLATION OF EQUIPMENT (FMP)  |          |           | 8,017         |          | 6,932                                             |            |          | 4,299     |            |          | 0             |             |          |       |          |      |
|                               | INSTALLATION SUB-TOTAL           |          |           | 8,017         |          | 6,932                                             |            |          | 4,299     |            |          | 0             |             |          |       |          |      |
|                               | TOTAL - N86                      |          |           | 35,666        |          | 13,156                                            |            |          | 10,353    |            |          | 8,897         |             |          |       |          |      |

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS  |                                 |          |                                | Weapon System |          |                                                   |            | DATE:         |           |            |          |           |             |          |       |          |      |
|-------------------------------|---------------------------------|----------|--------------------------------|---------------|----------|---------------------------------------------------|------------|---------------|-----------|------------|----------|-----------|-------------|----------|-------|----------|------|
| P-5                           |                                 |          |                                |               |          |                                                   |            | February 2000 |           |            |          |           |             |          |       |          |      |
| APPROPRIATION/BUDGET ACTIVITY |                                 |          |                                | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD                     |            |               |           |            |          |           |             |          |       |          |      |
| Other Procurement, Navy       |                                 |          |                                |               |          | Other Navigation Equipment BLI: 067000 SBHD: 81GW |            |               |           |            |          |           |             |          |       |          |      |
| BA-1 Ships Support Equipment  |                                 |          |                                |               |          |                                                   |            |               |           |            |          |           |             |          |       |          |      |
| COST CODE                     | ELEMENT OF COST                 | FY 2002  |                                |               | FY 2003  |                                                   |            | FY 2004       |           |            | FY 2005  |           | To Complete |          | Total |          |      |
|                               |                                 | Quantity | Unit Cost                      | Total Cost    | Quantity | Unit Cost                                         | Total Cost | Quantity      | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost  | Quantity | Cost  | Quantity | Cost |
|                               |                                 |          | <u>AIRCRAFT CARRIERS - N88</u> |               |          |                                                   |            |               |           |            |          |           |             |          |       |          |      |
| GW029                         | CVNS/WSN-7 ECP/FC KITS          |          |                                | 934           |          |                                                   | 907        |               |           | 667        |          |           | 1,750       |          |       |          |      |
| GW031                         | DMINS ECP/DOCUMENTATION         |          |                                | 0             |          |                                                   | 0          |               |           | 0          |          |           | 0           |          |       |          |      |
| GW035                         | RING LASER GYRO NAV (AN/WSN-7)  |          |                                | 0             |          |                                                   | 0          | 1             | 929       | 929        |          |           | 0           |          |       |          |      |
| GW830                         | PROD ENGINEERING CVNS/AN/WSN-7  |          |                                | 215           |          |                                                   | 217        |               |           | 237        |          |           | 123         |          |       |          |      |
|                               | PROCUREMENT SUB-TOTAL           |          |                                | 1,149         |          |                                                   | 1,124      |               |           | 1,833      |          |           | 1,873       |          |       |          |      |
| GW5IN                         | INSTALLATION OF EQUIPMENT (FMP) |          |                                | 575           |          |                                                   | 595        |               |           | 0          |          |           | 0           |          |       |          |      |
|                               | INSTALLATION SUB-TOTAL          |          |                                | 575           |          |                                                   | 595        |               |           | 0          |          |           | 0           |          |       |          |      |
|                               | TOTAL - N88                     |          |                                | 1,724         |          |                                                   | 1,719      |               |           | 1,833      |          |           | 1,873       |          |       |          |      |
|                               | TOTAL - PROCUREMENT             |          |                                | 36,980        |          |                                                   | 17,669     |               |           | 12,972     |          |           | 17,919      |          |       |          |      |
|                               | TOTAL - INSTALLATION            |          |                                | 15,116        |          |                                                   | 10,479     |               |           | 4,299      |          |           | 0           |          |       |          |      |
|                               | GRAND TOTAL                     |          |                                | 52,096        |          |                                                   | 28,148     |               |           | 17,271     |          |           | 17,919      |          |       |          |      |
|                               |                                 |          |                                | 52,096        |          |                                                   | 28,148     |               |           | 17,271     |          |           | 17,919      |          |       |          |      |

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

|                                                               |               |                                 |
|---------------------------------------------------------------|---------------|---------------------------------|
| <b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b> | Weapon System | A. DATE<br><b>February 2000</b> |
|---------------------------------------------------------------|---------------|---------------------------------|

|                                                                                                                  |                                                                        |                               |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------|
| <b>B. APPROPRIATION/BUDGET ACTIVITY</b><br><b>Other Procurement, Navy</b><br><b>BA-1 Ships Support Equipment</b> | <b>C. P-1 ITEM NOMENCLATURE</b><br><b>Other Navigation BLI: 067000</b> | <b>SUBHEAD</b><br><b>81GW</b> |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------|

| Cost Element/<br>FISCAL YEAR                | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO   | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
|---------------------------------------------|----------|-----------------------|----------------------|-------------------|------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| <b>1999</b>                                 |          |                       |                      |                   |                              |                            |               |                              |                           |                                |
| GW035 - RLGN<br>Submarine WSN-7A<br>Surface | 8        | 742                   | NAVSEA, Arlington VA | 12/98             | FFP                          | Sperry, Charlottesville VA | 04/99         | 10/00                        | YES                       |                                |
| - WSN-7                                     | 19       | 817                   | NAVSEA, Arlington VA | 12/98             | FFP                          | Sperry, Charlottesville VA | 04/99         | 10/00                        | YES                       |                                |
| - WSN-7B                                    | 6        | 406                   | NAVSEA, Arlington VA | 6/99              | LRIP                         | Sperry, Charlottesville VA | 09/99         | 09/00                        | YES                       |                                |
| Carrier WSN-7(V)3                           | 2        | 931                   | NAVSEA, Arlington VA | 12/98             | FFP                          | Sperry, Charlottesville VA | 04/99         | 10/00                        | YES                       |                                |
| <b>2000</b>                                 |          |                       |                      |                   |                              |                            |               |                              |                           |                                |
| GW035 - RLGN<br>Submarine                   |          |                       |                      |                   |                              |                            |               |                              |                           |                                |
| - WSN-7A                                    | 24       | 734                   | NAVSEA, Arlington VA | 12/99             | FFP                          | Sperry, Charlottesville VA | 04/00         | 10/01                        | YES                       |                                |
| - WSN-7B                                    | 17       | 268                   | NAVSEA, Arlington VA | 6/00              | LRIP                         | Sperry, Charlottesville VA | 09/00         | 10/01                        | YES                       |                                |
| Surface                                     |          |                       |                      |                   |                              |                            |               |                              |                           |                                |
| - WSN-7                                     | 18       | 842                   | NAVSEA, Arlington VA | 12/99             | FFP                          | Sperry, Charlottesville VA | 04/00         | 10/01                        | YES                       |                                |
| - WSN-7B                                    | 9        | 413                   | NAVSEA, Arlington VA | 6/00              | LRIP                         | Sperry, Charlottesville VA | 09/00         | 10/01                        | YES                       |                                |
| Carrier WSN-7(V)3                           | 1        | 826                   | NAVSEA, Arlington VA | 12/99             | FFP                          | Sperry, Charlottesville VA | 04/00         | 10/01                        | YES                       |                                |
| <b>2001</b>                                 |          |                       |                      |                   |                              |                            |               |                              |                           |                                |
| GW035 - RLGN<br>Submarine                   |          |                       |                      |                   |                              |                            |               |                              |                           |                                |
| - WSN-7A                                    | 9        | 756                   | NAVSEA, Arlington VA | 12/00             | FFP                          | Sperry, Charlottesville VA | 04/01         | 10/02                        | YES                       |                                |
| - WSN-7B                                    | 2        | 274                   | NAVSEA, Arlington VA | 6/01              | LRIP                         | Sperry, Charlottesville VA | 09/01         | 09/02                        | YES                       |                                |

**D. REMARKS**

GW035 - Unit costs vary for Surface, Submarine and Carrier configurations. This variance is due to combat system interfaces as required by surface combatants, additional circuit cards necessary for aircraft alignment on board carriers and IMU cabinetry differences as required on board submarines.

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/WSN-1,2,3,5 and CVNS TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: RLGN GW035

DESCRIPTION/JUSTIFICATION:

The Ring Laser Gyro Navigator (RLGN) will replace existing inertial navigation systems currently installed in various surface and sub-surface combatants. This system replaces the AN/WSN-1, -2, -3 and -5, providing commonality and correcting existing inadequacies identified in these systems in the areas of maintainability, performance, environmental effects, reliability and ownership costs. RLGN is a passive shipboard navigation system intended to be operable worldwide without the need for external position reference information over the course of its fourteen day reset interval.

Note: the FY 97&Prior and FY 99 units include shipsets to be used at the LBTF not requiring install dollars. FY 94/95 assets were procured with AN/WSN-2/5 Field Change Dollars (GW029)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | FY 1997 & Prior |      | FY 1998 |      | FY 1999 |      | FY 2000 |      | FY 2001 |      | FY 2002 |      | FY 2003 |         | FY 2004 |     | FY 2005 |     | TC    |      | TOTAL |       |     |
|-------------------------------------|-----------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|---------|---------|-----|---------|-----|-------|------|-------|-------|-----|
|                                     | QTY             | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$      | QTY     | \$  | QTY     | \$  | QTY   | \$   | QTY   | \$    |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       |       |     |
| <u>RDT&amp;E</u>                    |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0     | 0.0 |
| <u>PROCUREMENT</u>                  |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       |       |     |
| INSTALLATION KITS                   |                 |      | 0       | 0.0  | 0       | 0.0  | 0       | 0.0  | 0       | 0.0  | 0       | 0.0  | 0       | 0.0     | 0       | 0.0 | 0       | 0.0 |       |      | 0     | 0.0   |     |
| INSTALLATION KITS - UNIT COST       |                 |      | #####   |      | #####   |      | #####   |      | #####   |      | #####   |      | #####   | #DIV/0! | #####   |     | #####   |     | ##### |      |       |       |     |
| INSTALLATION KITS NONRECURRING      |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| EQUIPMENT                           | 27              | 11.2 | 20      | 17.1 | 35      | 25.7 | 69      | 41.9 | 11      | 7.3  | 22      | 14.6 | 2       | 1.3     | 1       | 0.9 | 8       | 4.1 | 69    | 19.2 | 264   | 143.3 |     |
| EQUIPMENT NONRECURRING              |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| ENGINEERING CHANGE ORDERS           |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| DATA                                |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| TRAINING EQUIPMENT                  |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| SUPPORT EQUIPMENT                   |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| OTHER                               |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| OTHER                               |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| OTHER                               |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| INTERIM CONTRACTOR SUPPORT          |                 |      |         |      |         |      |         |      |         |      |         |      |         |         |         |     |         |     |       |      |       | 0.0   |     |
| INSTALL COST                        | 4               | 1.1  | 8       | 3.8  | 13      | 5.5  | 26      | 12.8 | 49      | 11.5 | 45      | 15.1 | 30      | 10.5    | 9       | 4.3 | 0       | 0.0 | 77    | 15.8 |       | 80.4  |     |
| TOTAL PROCUREMENT                   | 31              | 12.4 | 28      | 20.9 | 48      | 31.3 | 95      | 54.7 | 60      | 18.8 | 67      | 29.6 | 32      | 11.8    | 10      | 5.2 | 8       | 4.1 | 141   | 34.9 | 264   | 223.7 |     |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: AN/WSN1,2,3,5 and CVNS MODIFICATION TITLE: RLGN

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months

PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 1999: 4/98

FY 2000: 4/99

FY 2001: 4/00

DELIVERY DATE: FY 1999: 10/99

FY 2000: 10/00

FY 2001: 10/01

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |     | FY 1999 |     | FY 2000 |      | FY 2001 |      | FY 2002 |      | FY 2003 |     | FY 2004 |    | FY 2005 |    | To Complete |    | Total |      |      |
|-------------------|-------------|-----|---------|-----|---------|-----|---------|------|---------|------|---------|------|---------|-----|---------|----|---------|----|-------------|----|-------|------|------|
|                   | Qty         | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$   | Qty     | \$   | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$   |      |
| PRIOR YEARS       | 4           | 1.1 | 8       | 3.8 | 13      | 5.5 |         |      |         |      |         |      |         |     |         |    |         |    |             |    | 25    | 10.4 |      |
| FY 1998 EQUIPMENT |             |     |         |     |         |     | 20      | 10.9 |         |      |         |      |         |     |         |    |         |    |             |    |       | 20   | 10.9 |
| FY 1999 EQUIPMENT |             |     |         |     |         |     | 6       | 1.9  | 23      | 10.4 | 6       | 3.6  |         |     |         |    |         |    |             |    |       | 35   | 15.9 |
| FY 2000 EQUIPMENT |             |     |         |     |         |     |         |      | 26      | 1.1  | 37      | 14.5 | 6       | 2.2 |         |    |         |    |             |    |       | 69   | 17.8 |
| FY 2001 EQUIPMENT |             |     |         |     |         |     |         |      |         | 2    | 0.6     | 9    | 3.6     |     |         |    |         |    |             |    |       | 11   | 4.2  |
| FY 2002 EQUIPMENT |             |     |         |     |         |     |         |      |         |      |         | 15   | 4.7     | 6   | 3.3     |    |         |    |             |    |       | 21   | 8    |
| FY 2003 EQUIPMENT |             |     |         |     |         |     |         |      |         |      |         |      |         | 3   | 1.0     |    |         |    |             |    |       | 3    | 1    |
| FY 2004 EQUIPMENT |             |     |         |     |         |     |         |      |         |      |         |      |         |     |         |    |         |    |             | 2  | 0.9   | 2    | 0.9  |
| FY 2005 EQUIPMENT |             |     |         |     |         |     |         |      |         |      |         |      |         |     |         |    |         |    |             | 6  | 1.7   | 6    | 1.7  |
| TO COMPLETE       |             |     |         |     |         |     |         |      |         |      |         |      |         |     |         |    |         |    |             | 69 | 13.2  | 69   | 13.2 |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |    |    | FY 2002 |   |   |    | FY 2003 |   |   |    | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|----|----|---------|---|---|----|---------|---|---|----|---------|---|---|---|---------|---|---|---|----|-------|
|     |                    | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3  | 4  | 1       | 2 | 3 | 4  | 1       | 2 | 3 | 4  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 12                 | 0       | 3 | 5 | 5 | 7       | 4 | 7 | 8 | 31      | 9 | 5  | 2  | 28      | 9 | 3 | 5  | 14      | 7 | 4 | 5  | 6       | 2 | 0 | 1 | 0       | 0 | 0 | 0 | 77 | 261   |
| Out | 12                 | 0       | 3 | 4 | 1 | 6       | 2 | 5 | 7 | 11      | 1 | 10 | 30 | 9       | 2 | 8 | 28 | 7       | 0 | 4 | 14 | 9       | 0 | 0 | 6 | 5       | 0 | 0 | 0 | 77 | 261   |

P-3A

| TIME PHASED REQUIREMENT SCHEDULE<br>P-23 |      |                         |    | A. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>OPN/BA-1: SHIPS SUPPORT EQUIPMENT |    |    |    |         |    |     |     |             |     | B. P-1 ITEM NOMENCLATURE<br>OTHER NAVIGATION EQUIPMENT/GW035 |     |                       |     |                           |     |          |     | C. DATE<br>Feb-00 |     |         |     | LATER |     |         |     |    |   |  |
|------------------------------------------|------|-------------------------|----|--------------------------------------------------------------------------------------------------|----|----|----|---------|----|-----|-----|-------------|-----|--------------------------------------------------------------|-----|-----------------------|-----|---------------------------|-----|----------|-----|-------------------|-----|---------|-----|-------|-----|---------|-----|----|---|--|
|                                          |      |                         |    | FY 1999                                                                                          |    |    |    | FY 2000 |    |     |     | FY 2001     |     |                                                              |     | FY 2002               |     |                           |     | FY 2003  |     |                   |     | FY 2004 |     |       |     | FY 2005 |     |    |   |  |
|                                          |      |                         |    | 1                                                                                                | 2  | 3  | 4  | 1       | 2  | 3   | 4   | 1           | 2   | 3                                                            | 4   | 1                     | 2   | 3                         | 4   | 1        | 2   | 3                 | 4   | 1       | 2   | 3     | 4   | 1       | 2   | 3  | 4 |  |
| ACTIVE FORCE INVENTORY (P)               | (P)  | 12                      | 3  | 5                                                                                                | 5  | 7  | 4  | 7       | 8  | 31  | 9   | 5           | 4   | 28                                                           | 9   | 3                     | 5   | 14                        | 7   | 4        | 5   | 6                 | 2   | 0       | 1   | 0     | 0   | 0       | 0   | 77 |   |  |
| SCHOOLS/OTHER TRAINING (P)               | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| OTHER (P)                                | (P)  | 1                       | 1  |                                                                                                  |    |    |    |         |    |     |     | 1           |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| TOTAL PHASED REQ (C)                     | (C)  | 13                      | 17 | 22                                                                                               | 27 | 34 | 38 | 45      | 53 | 84  | 93  | 98          | 103 | 131                                                          | 140 | 143                   | 148 | 162                       | 169 | 173      | 178 | 184               | 186 | 186     | 187 | 187   | 187 | 187     | 264 |    |   |  |
| ASSETS ON HAND (BP)                      | (BP) | 13                      |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| DELIVERY FY 98 & PRIOR (P)               | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| FY 98 & PRIOR (P)                        | (P)  | 3                       | 6  | 5                                                                                                |    | 9  | 9  | 2       |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| FY 99 (P)                                | (P)  |                         |    | S                                                                                                | S  |    |    |         | 6  | 9   | 6   | 6           | 6   | 2                                                            |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| FY 00 (P)                                | (P)  |                         |    |                                                                                                  | S  |    | S  | S       |    |     | 8   | 8           | 7   | 3                                                            |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| FY 01 (P)                                | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     | S           | S   |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| FY 02 (P)                                | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     | S                                                            | S   |                       |     |                           | 7   | 7        |     | 4                 | 4   |         |     |       |     |         |     |    |   |  |
| FY 03 (P)                                | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       | S   |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| FY 04 (P)                                | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          | 2   | S                 |     |         | 1   |       |     |         |     |    |   |  |
| FY 05 (P)                                | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
| To Complete (P)                          | (P)  |                         |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       | S   |         | 8   |    |   |  |
| TOTAL ASSETS (C)                         | (C)  | 16                      | 22 | 27                                                                                               | 27 | 36 | 45 | 47      | 53 | 62  | 76  | 90          | 103 | 120                                                          | 130 | 140                   | 148 | 162                       | 169 | 176      | 178 | 182               | 186 | 186     | 187 | 187   | 187 | 187     | 264 |    |   |  |
| QTY OVER (+) OR SHORT (-)                |      | 3                       | 5  | 5                                                                                                | 0  | 2  | 7  | 2       | 0  | -22 | -17 | -8          | 0   | -11                                                          | -10 | -3                    | 0   | 0                         | 0   | 3        | 0   | -2                | 0   | 0       | 0   | 0     | 0   | 0       | 0   | 0  |   |  |
| D. REMARKS                               |      | E. RQMT (QTY)           |    |                                                                                                  |    |    |    |         |    |     |     | TOTAL RQMT  |     | INSTALLED                                                    |     | ON HAND AS OF 5/30/99 |     | FY 98 & PRIOR UNDELIVERED |     | UNFUNDED |     |                   |     |         |     |       |     |         |     |    |   |  |
|                                          |      |                         |    |                                                                                                  |    |    |    |         |    |     |     | 264         |     | 22 22                                                        |     | 4                     |     | 0                         |     | 0        |     |                   |     |         |     |       |     |         |     |    |   |  |
|                                          |      | 1. APPN -               |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
|                                          |      | 2. APPN -               |    |                                                                                                  |    |    |    |         |    |     |     |             |     |                                                              |     |                       |     |                           |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |
|                                          |      | 3. PROCUREMENT LEADTIME |    |                                                                                                  |    |    |    |         |    |     |     | ADMIN 6 mos |     | INITIAL ORDER 18 mos                                         |     | 18 mos                |     | REORDER 18 mos            |     |          |     |                   |     |         |     |       |     |         |     |    |   |  |

CLASSIFICATION:

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A                |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br><b>OTHER NAVIGATION EQUIPMENT/GW035</b> |     |         |     |         |     |         |     | DATE<br><br><b>Feb-00</b> |  |
|---------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|-----------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|---------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: SHIPS SUPPORT EQUIPMENT</b> |     |         |     |         |     |         |     | Installing Agent<br><br><b>N/A</b>                                                |     |         |     |         |     |         |     |                           |  |
| 1ST QTR                                                                                           |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                           |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                           |  |
| E.I./L                                                                                            | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                            | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                           |  |
| FY 1998                                                                                           |     |         |     |         |     |         |     | FY 1999                                                                           |     |         |     |         |     |         |     |                           |  |
| SSN 717                                                                                           | 1   | SSN 688 | 1   | SSN 705 | 1   | SSN 708 | 1   |                                                                                   |     | CG 47   | 1   | CG 59   | 1   | CG 54   | 1   |                           |  |
| SSN 724                                                                                           | 1   |         |     | SSN 706 | 1   | CG 48   | 1   |                                                                                   |     | CG 63   | 1   | DDG 60  | 1   | DDG 55  | 1   |                           |  |
|                                                                                                   |     |         |     |         |     |         |     |                                                                                   |     | CG 67   | 1   | DDG 62  | 1   | DDG 66  | 1   |                           |  |
|                                                                                                   |     |         |     |         |     |         |     |                                                                                   |     |         |     | DDG 70  | 1   | DDG 75  | 1   |                           |  |
|                                                                                                   |     |         |     |         |     |         |     |                                                                                   |     |         |     | CVN 72  | 1   | DDG 76  | 1   |                           |  |
| FY 2000                                                                                           |     |         |     |         |     |         |     | FY 2001                                                                           |     |         |     |         |     |         |     |                           |  |
| CG 58                                                                                             | 1   | CG 55   | 1   | CG 66   | 1   | CG 57   | 1   | DDG 68                                                                            | 1   | CG 52   | 1   | CG 51   | 1   | CG 62   | 1   |                           |  |
| CG 64                                                                                             | 1   | DDG 63  | 1   | CG 69   | 1   | CG 73   | 1   | CVN 74                                                                            | 1   | CG 56   | 1   | CG 68   | 1   | CG 71   | 1   |                           |  |
| CG 50                                                                                             | 1   | DDG 71  | 1   | DDG 52  | 1   | DDG 58  | 1   | SSN                                                                               | 25  | DD 963  | 1   | CG 70   | 1   | DDG 51  | 1   |                           |  |
| CVN 70                                                                                            | 1   | CV 63   | 1   | DDG 72  | 1   | DDG 69  | 1   | DDG                                                                               | 4   | DDG     | 5   | DDG 53  | 1   | DDG 54  | 1   |                           |  |
| CVN 71                                                                                            | 1   |         |     | FFG     | 3   | CV 67   | 1   |                                                                                   |     |         |     | DDG 67  | 1   |         |     |                           |  |
| SSN 691                                                                                           | 1   |         |     |         |     | FFG     | 3   |                                                                                   |     |         |     |         |     |         |     |                           |  |
| SSN 767                                                                                           | 1   |         |     |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A                |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br><b>OTHER NAVIGATION EQUIPMENT/GW035</b> |     |         |     |         |     |         |     | DATE<br><br><b>Feb-00</b> |  |
|---------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|-----------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|---------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: SHIPS SUPPORT EQUIPMENT</b> |     |         |     |         |     |         |     | Installing Agent<br><br><b>N/A</b>                                                |     |         |     |         |     |         |     |                           |  |
| 1ST QTR                                                                                           |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                           |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                           |  |
| E.I./L                                                                                            | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                            | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                           |  |
| FY 2002                                                                                           |     |         |     |         |     |         |     | FY 2003                                                                           |     |         |     |         |     |         |     |                           |  |
| CG 49                                                                                             | 1   | DDG 59  | 1   | DD 988  | 1   | DDG 61  | 1   | LCC                                                                               | 1   | DD 992  | 1   | FFG     | 4   | FFG     | 5   |                           |  |
| CG 53                                                                                             | 1   | DDG 64  | 1   | LHA 1   | 1   | DD 989  | 1   | AGF                                                                               | 1   | LCC     | 1   |         |     |         |     |                           |  |
| DDG 56                                                                                            | 1   | DDG 65  | 1   | CG      | 1   | LHA 5   | 1   | CVN 75                                                                            | 1   | FFG     | 5   |         |     |         |     |                           |  |
| DDG 57                                                                                            | 1   | DD 985  | 1   |         |     | LHD 5   | 1   | SSN                                                                               | 11  |         |     |         |     |         |     |                           |  |
| SSN                                                                                               | 24  | DD 989  | 1   |         |     | LHD 6   | 1   |                                                                                   |     |         |     |         |     |         |     |                           |  |
|                                                                                                   |     | CVN 65  | 1   |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |
|                                                                                                   |     | LHA 4   | 1   |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |
|                                                                                                   |     | LHD 3   | 1   |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |
|                                                                                                   |     | DD      | 1   |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |
| FY 2004                                                                                           |     |         |     |         |     |         |     | FY 2005                                                                           |     |         |     |         |     |         |     |                           |  |
| LHA 3                                                                                             | 1   | DDG 74  | 1   |         |     | DD 982  | 1   |                                                                                   |     |         |     |         |     |         |     |                           |  |
| LHD                                                                                               | 3   | AGF     | 1   |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |
| MHC                                                                                               | 2   |         |     |         |     |         |     |                                                                                   |     |         |     |         |     |         |     |                           |  |

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY  
**OTHER PROCUREMENT, NAVY**

P-1 ITEM NOMENCLATURE  
**UNDERWAY REPLENISHMENT EQUIPMENT (81G0/0740)**

Program Element for Code B Items:  
**BA 1: SHIPS SUPPORT EQUIPMENT**

Other Related Program Elements

|                              | Prior Years | ID Code |  | FY 1999      | FY 2000       | FY 2001      | FY 2002      | FY 2003      | FY 2004      | FY 2005      | To Complete | Total         |
|------------------------------|-------------|---------|--|--------------|---------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|
| QUANTITY                     |             |         |  |              |               |              |              |              |              |              |             |               |
| COST<br>(In Millions)        |             |         |  | <b>\$7.3</b> | <b>\$15.6</b> | <b>\$9.1</b> | <b>\$6.4</b> | <b>\$1.4</b> | <b>\$1.6</b> | <b>\$1.7</b> |             | <b>\$43.1</b> |
| SPARES COST<br>(In Millions) |             |         |  |              |               |              |              |              |              |              |             | <b>\$0.0</b>  |

This line item encompasses equipment required to provide the Fleet with a reliable Stream Underway Replenishment capability. The equipment is used to transfer ammunition, missiles, fuel and cargo by alongside replenishment techniques, cranes, and elevators. This new equipment is essential to the Fleet to: (a) enhance personnel equipment safety; (b) reduce maintenance costs; (c) lengthen intervals between equipment failures; (d) allow heavylift transfer (i.e., aircraft engines) and (e) shorten along-side time and, thereby reducing ship vulnerability to enemy action. Installation costs are included. Some of the significant items included are as follows:

STREAM EQUIPMENT MODS (G0011) - This item will support the replacement of Stream Equipment components by mods kits to correct deficiencies. This work will be performed by AIT teams or SHIPALTS. Mods include Sliding Block Limit Switches, NATO kits, One Man Control Station, and Hauling Winch Friction Drums.

AOE STREAM MODERNIZATION (G0043) - This item replaces 25 year old, unreliable Stream System with modern, reliable Navy Standard Stream Systems on AOE 1 Class. ShipAlts AOE-761K, 762K and 764K apply.

PRODUCTION ENGINEERING (G0830)- The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical Manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD) Program Support Data (PSD) and Allowance Parts List (APL's); Engineering in support of final design reviews. This work can be accomplished by NSWC. PHD as the In Service Engineering Agent.

EQUIPMENT INSTALLATION (GO5IN)- Funding is for the installation of equipment including Fleet Modernization Program installation of training equipment and installation of equipment in other shore facilities.

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       |                                 |         |                                    |          |           | Weapon System |                                                                               |              |            |          |               | DATE:<br>FEBRUARY 2000 |          |              |            |
|-------------------------------------------------------------------------------------------|---------------------------------|---------|------------------------------------|----------|-----------|---------------|-------------------------------------------------------------------------------|--------------|------------|----------|---------------|------------------------|----------|--------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: SHIPS SUPPORT EQUIPMENT |                                 |         |                                    |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>UNDERWAY REPLENISHMENT EQUIPMENT (81G0/0740) |              |            |          |               |                        |          |              |            |
| COST CODE                                                                                 | ELEMENT OF COST                 | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |               |                                                                               |              |            |          |               |                        |          |              |            |
|                                                                                           |                                 |         | Prior Years                        | FY 1999  |           |               | FY 2000                                                                       |              |            | FY 2001  |               |                        |          |              |            |
|                                                                                           |                                 |         | Total Cost                         | Quantity | Unit Cost | Total Cost    | Quantity                                                                      | Unit Cost    | Total Cost | Quantity | Unit Cost     | Total Cost             | Quantity | Unit Cost    | Total Cost |
|                                                                                           | <b><u>N4 DCNO LOGISTICS</u></b> |         |                                    |          |           |               |                                                                               |              |            |          |               |                        |          |              |            |
| G0011                                                                                     | STREAM EQUIPMENT MODS           | A       |                                    |          |           | 25            | 38.720                                                                        | 968          | 74         | 38.65    | 2,860         |                        |          | 0            |            |
| G0043                                                                                     | AOE STREAM MODERNIZATION        | A       |                                    |          |           | 1             | 1,400                                                                         | 1,400        | 1          | 1,400    | 1,400         |                        |          | 0            |            |
| G0830                                                                                     | PRODUCTION ENGINEERING          | A       |                                    |          |           |               |                                                                               | <u>400</u>   |            |          | <u>656</u>    |                        |          | <u>203</u>   |            |
|                                                                                           | <b>N4 Subtotal</b>              |         |                                    |          |           |               |                                                                               | <b>2,768</b> |            |          | <b>4,916</b>  |                        |          | <b>203</b>   |            |
|                                                                                           | <b><u>INSTALLATION</u></b>      |         |                                    |          |           |               |                                                                               |              |            |          |               |                        |          |              |            |
| G05IN                                                                                     | N4 DCNO LOGISTICS               |         |                                    |          |           |               |                                                                               | 4,399        |            |          | 10,293        |                        |          | 8,917        |            |
|                                                                                           | N88 AIR WARFARE                 |         |                                    |          |           |               |                                                                               | <u>113</u>   |            |          | <u>342</u>    |                        |          | <u>0</u>     |            |
|                                                                                           | <b>Install Subtotal</b>         |         |                                    |          |           |               |                                                                               | <b>4,512</b> |            |          | <b>10,635</b> |                        |          | <b>8,917</b> |            |
|                                                                                           |                                 |         |                                    |          |           |               |                                                                               | <b>7,280</b> |            |          | <b>15,551</b> |                        |          | <b>9,120</b> |            |

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| B. APPROPRIATION/BUDGET ACTIVITY                         |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE              |                            |               |                              | SUBHEAD                   |                                |
|----------------------------------------------------------|----------|-----------------------|--------------------|-------------------|---------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| Other Procurement, Navy<br>BA 1: SHIPS SUPPORT EQUIPMENT |          |                       |                    |                   | UNDERWAY REPLENISHMENT EQUIPMENT/074C |                            |               |                              | 81GO                      |                                |
| Cost Element/<br>FISCAL YEAR                             | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE          | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FY 99                                                    |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |
| G0011                                                    | 25       | 0.03872               | PORT HUENEME, CA   |                   | RCP                                   | WI. CENTRIFUGAL, WI        | APR.99        | APR 00                       | YES                       |                                |
| G0043                                                    | 1        | 1,400.0               | NAVSEA             |                   | WR                                    | NSWC PORT HUENEME, CA      | JAN 99        | JUL 00                       | YES                       |                                |
| FY 00                                                    |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |
| G0011                                                    | 74       | 0.03865               | PORT HUENEME, CA   |                   | RCP/OPT                               | WI. CENTRIFUGAL, WI        | MAR 00        | MAR 01                       | YES                       |                                |
| G0043                                                    | 1        | 1,400.0               | NAVSEA             |                   | WR                                    | NSWC PORT HUENEME, CA      | JAN 00        | JUL 01                       | YES                       |                                |
| D. REMARKS                                               |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |

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P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: STREAM UNREP MODS TYPE MODIFICATION: MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT  
(G0011)

DESCRIPTION/JUSTIFICATION:  
 Various Stream Equipment Mods including limit switches, NATO Kits, and Hauling Friction Drums.  
 I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |     | <u>FY 2004</u> |     | <u>FY 2005</u> |     | <u>TC</u> |    | <u>TOTAL</u> |     |      |
|-------------------------------------|----------------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|-----------|----|--------------|-----|------|
|                                     | QTY                        | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY       | \$ | QTY          | \$  |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     |      |
| <u>RDT&amp;E</u>                    |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| <u>PROCUREMENT</u>                  |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     |      |
| INSTALLATION KITS                   |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     |      |
| INSTALLATION KITS NONRECURRING      |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| EQUIPMENT                           | 51                         | 2.2 | 31             | 1.2 | 25             | 1.0 | 74             | 2.9 |                |     |                |     |                |     |                |     |                |     |           |    |              | 181 | 7.3  |
| EQUIPMENT NONRECURRING              |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| DATA                                |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| TRAINING EQUIPMENT                  |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| SUPPORT EQUIPMENT                   |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |     |           |    |              |     | 0.0  |
| INSTALL COST                        | 51                         | 5.6 | 31             | 0.7 | 18             | 2.2 | 7              | 0.8 | 8              | 0.6 | 66             | 4.6 |                |     |                |     |                |     |           |    |              | 181 | 14.5 |
| TOTAL PROCUREMENT                   |                            | 7.8 |                | 1.9 |                | 3.2 |                | 3.7 |                | 0.6 |                | 4.6 |                | 0.0 |                | 0.0 |                | 0.0 |           |    |              |     | 21.8 |



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AOE STREAM TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: UNDERWAY REPLENISHMENT  
MODERNIZATION (G0043)

DESCRIPTION/JUSTIFICATION:  
 Replacement of 25 year old Non-Navy Standard Equipment.  
 I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |    | FY 1998 |     | FY 1999 |     | FY 2000 |      | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | TC  |    | TOTAL |      |      |
|-------------------------------------|-----------------|----|---------|-----|---------|-----|---------|------|---------|-----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|------|------|
|                                     | QTY             | \$ | QTY     | \$  | QTY     | \$  | QTY     | \$   | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$   |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      |      |
| <u>RDT&amp;E</u>                    |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| <u>PROCUREMENT</u>                  |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      |      |
| INSTALLATION KITS                   |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      |      |
| INSTALLATION KITS NONRECURRING      |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| EQUIPMENT                           |                 |    | 2       | 3.0 | 1       | 1.4 | 1       | 1.4  |         |     |         |    |         |    |         |    |         |    |     |    | 4     |      | 5.8  |
| EQUIPMENT NONRECURRING              |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| DATA                                |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| TRAINING EQUIPMENT                  |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| SUPPORT EQUIPMENT                   |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| OTHER                               |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| OTHER                               |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| OTHER                               |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |    |         |     |         |     |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |      | 0.0  |
| INSTALL COST                        |                 |    | AP      | 0.8 | AP      | 2.3 | 2       | 9.6  | 2       | 8.3 |         |    |         |    |         |    |         |    |     |    | 4     |      | 21.0 |
| TOTAL PROCUREMENT                   |                 |    |         | 3.8 |         | 3.7 |         | 11.0 |         | 8.3 |         |    | 0.0     |    | 0.0     |    | 0.0     |    |     |    |       | 26.8 |      |



CLASSIFICATION: **UNCLASSIFIED**

P3A

**INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SADDLE WINCH (G0003) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: UNDERWAY REPLENISHMENT

DESCRIPTION/JUSTIFICATION:

Replacement of 25 year old Non-Navy Standard Equipment.  
I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |     |
|-------------------------------------|----------------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|-----|
|                                     | QTY                        | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |     |
| <u>RDT&amp;E</u>                    |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| <u>PROCUREMENT</u>                  |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INSTALLATION KITS                   |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INSTALLATION KITS - UNIT COST       |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INSTALLATION KITS NONRECURRING      |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| EQUIPMENT                           | 12                         | 0.6 |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 12 | 0.6 |
| EQUIPMENT NONRECURRING              |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| DATA                                |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| TRAINING EQUIPMENT                  |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| SUPPORT EQUIPMENT                   |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INSTALL COST                        |                            |     |                |     |                |     |                |     |                | AP  | 0.14           | 6  | 1.3            | AP | 0.04           | 6  | 1.3            |    |           |    |              | 12 | 2.8 |
| TOTAL PROCUREMENT                   |                            | 0.6 |                | 0.0 |                | 0.0 |                | 0.0 |                | 0.0 | 0.14           | 6  | 1.3            |    | 0.04           | 6  | 1.3            |    |           |    |              | 12 | 3.4 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SADDLE WINCH MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT  
 (G0003)

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: \_\_\_\_\_

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: \_\_\_\_\_ Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |    | FY 2002 |      | FY 2003 |     | FY 2004 |      | FY 2005 |     | To Complete |    | Total |    |     |
|-------------------|-------------|----|---------|----|---------|----|---------|----|---------|----|---------|------|---------|-----|---------|------|---------|-----|-------------|----|-------|----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$   | Qty     | \$  | Qty     | \$   | Qty     | \$  | Qty         | \$ | Qty   | \$ |     |
| PRIOR YEARS       |             |    |         |    |         |    |         |    |         |    | AP      | 0.14 | 6       | 1.3 | AP      | 0.04 | 6       | 1.3 |             |    |       | 12 | 2.8 |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       | 0  | 0.0 |
| TO COMPLETE       |             |    |         |    |         |    |         |    |         |    |         |      |         |     |         |      |         |     |             |    |       |    |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |    |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|----|
|     | & Prior | 1       | 2 | 3 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 |    |       | 4  |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 6       | 0 | 0 | 0 | 0       | 0 | 6 | 0 | 0  | 0     | 12 |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 6 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 6  | 0     | 12 |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SLIDING PADEYES G0002 TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: UNDERWAY REPLENISHMENT

DESCRIPTION/JUSTIFICATION:

Replacement 25 year old Non-Navy Standard Equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |      | <u>FY 2004</u> |     | <u>FY 2005</u> |     | <u>TC</u> |     | <u>TOTAL</u> |    |     |
|-------------------------------------|----------------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|------|----------------|-----|----------------|-----|-----------|-----|--------------|----|-----|
|                                     | QTY                        | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$   | QTY            | \$  | QTY            | \$  | QTY       | \$  | QTY          | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    |     |
| <u>RDT&amp;E</u>                    |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| <u>PROCUREMENT</u>                  |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    |     |
| INSTALLATION KITS                   |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| INSTALLATION KITS - UNIT COST       |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    |     |
| INSTALLATION KITS NONRECURRING      |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| EQUIPMENT                           | 2                          | 0.3 |                |     |                |     |                |     |                | 2   | 0.3            |     |                | 2    | 0.3            | 2   | 0.3            |     |           |     |              | 8  | 1.2 |
| EQUIPMENT NONRECURRING              |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| DATA                                |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| TRAINING EQUIPMENT                  |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| SUPPORT EQUIPMENT                   |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |     |                |     |                |     |                |     |                |     |                |      |                |     |                |     |           |     |              |    | 0.0 |
| INSTALL COST                        |                            |     |                |     |                |     | AP             | 0.2 |                | 0.0 | 2              | 1.2 | AP             | 0.03 | 2              | 1.3 |                |     | 4         | 2.6 |              | 8  | 5.3 |
| TOTAL PROCUREMENT                   |                            | 0.3 |                | 0.0 |                | 0.0 |                | 0.2 |                | 0.0 |                | 1.5 |                | 0.03 |                | 1.6 |                | 0.3 |           | 2.6 |              |    | 6.5 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SLIDING PADEYES (G0002) MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: \_\_\_\_\_  
 ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |     | FY 2001 |    | FY 2002 |     | FY 2003 |      | FY 2004 |     | FY 2005 |    | To Complete |    | Total |     |     |
|-------------------|-------------|----|---------|----|---------|----|---------|-----|---------|----|---------|-----|---------|------|---------|-----|---------|----|-------------|----|-------|-----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$  | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty         | \$ | Qty   | \$  |     |
| PRIOR YEARS       |             |    |         |    |         |    | AP      | 0.2 |         |    | 2       | 1.2 |         |      |         |     |         |    |             |    | 2     | 1.4 |     |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |     |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |     |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |     |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |     |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     | AP      | 0.03 | 2       | 1.3 |         |    |             |    | 2     | 1.3 |     |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |     |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |     |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             | 2  | 1.3   | 2   | 1.3 |
| TO COMPLETE       |             |    |         |    |         |    |         |     |         |    |         |     |         |      |         |     |         |    |             | 2  | 1     | 2   | 1.3 |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       |   |   |   |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 2 | 0 | 0 | 0       | 0 | 4 | 8 |    |       |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 2 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 4 | 8 |   |    |       |

P-3A

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY  
**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE  
**SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL**

Program Element for Code B Items:

Other Related Program Elements  
**N/A**

|                              | Prior Years | ID Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | To Complete | Total   |
|------------------------------|-------------|---------|--|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| QUANTITY                     |             |         |  |         |         |         |         |         |         |         |             |         |
| COST<br>(In Millions)        |             |         |  | 25.5*   | \$64.7  | \$19.0  | \$16.2  | \$15.2  | \$13.8  | \$14.0  |             | \$142.8 |
| SPARES COST<br>(In Millions) |             |         |  |         |         |         |         |         |         |         |             | \$0.0   |

Service Approval - The Type 18 Periscope was approved for service use December 1972.

The Type 18 Periscope contains completely redesigned Electronic Surveillance Measure (ESM) and Optical Subsystems. The ESM provides improved sensitivity, reliability, and maintainability as well as frequency extension. The optical subsystem provides higher power and resolution (optimized for photography) and the eyepiece box is redesigned for built-in-TV. Special electronics for low light level viewing are also provided. Type 18B Periscope Systems are installed on SSN 688 Class submarines.

The Type 18 Periscope Inventory Objective is 63 units: This is the quantity required for ship installation (49), spares (10), trainers (3), and (1) configuration model.

The Type 8B Mod 3 Periscope provides enhanced imaging and communications capabilities. The Type 8B Mod 3 Periscope replaces the Type 2 Periscope on SSN 688 Class Submarines. The Type 8B Mod 3 Periscope inventory objective is 59 units. This is the quantity required for ship installation (50), spares (7), trainers (1), and configuration control model (1).

PL001 - Procurement of Type 8B Mod 3 Periscopes began in FY 1991. The Type 8B Mod 3 replaces the Type 2 Periscope on SSN-688 Class Submarines and provides them with enhanced imaging and communications capabilities. Installations will be accomplished during routine upkeep periods.

PL006 - Imaging components are required to fully support Type 18 TV imaging, photographic, television, and ancillaries and upgrades. These equipment's include High Resolution Video Cameras, Video and Photographic Screening Systems, AR-165B Reader/Printers, equipment's that must be replaced and ancillary components. These maintenance items support fleet requirements based on demand history, repair turn-around time, and casualties resulting from non-repairable equipment's that must be replaced.

PL007 - Procurement of Type 18 Periscope Automatic Direction Finding (ADF) modifications including integration of ADF with the AN/WLR-8 HPI receiver that will provide SSN 688 Class Submarines with an automatic direction finding capability. Installations will be accomplished during routine upkeep periods. Procurement quantities vary year to year based on projected submarine availabilities and availability of funding.

\*FY99 funding differs from the P-1 by \$3.0M due to a BTR to finance higher priorities.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET**

**P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE

**SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL**

PL011 - FY-2000/01 funding continues procurement of the following Type 18 Field Change Kits: Heated Head Window replacement, ADF/HPI Upgrade, Eyepiece Box/Mast Connector Interface, Antenna Stack Sensitivity Upgrade, Video Distribution Drawer Connector Upgrade, Type 18 Autocoupler Upgrade, Type 18B/D RAS (RAM replacement), Cathodic Protection Upgrade, Drip Pan Upgrade, Fairing Closure Cap Seal, Hydraulic Cylinder Upgrade, Periscope Bearing Upgrade, Hoisting Cylinder Sleeve Bearing Upgrade, and Fairing Hoisting Assembly Sleeve Bearing Upgrade,

PL012 - FY-2000/01 funds procure replacement Special Support Equipment (SSE) for each maintenance level to ensure systems are maintained in a state of operational readiness. Equipment includes dynamic collimator, eyebox/mast test set, and antenna/outer head simulator required due to obsolescence and age of existing Type 8 and 18 Periscope SSE.

PL015 - Funding is for interim contract support provided by the periscope manufacturer including Depot and Intermediate level repair of all types of tactical periscope equipment.

PL016 - Funding is for Type 8 and 18 periscope changes training including curriculum development, training materials, initial factory training pilot course conduct, and instructor advisory services.

PL017 - FY1998 funding provides for the repair or replacement of periscope E&E Adapter shipping containers which provide security and protection for the periscope E&E Adapter.

PL018 - FY1998 funding provides for the repair or replacement of periscope eyepiece box shipping containers which provide security and protection for the periscope eyepiece box.

PL019 - FY1998 funding provides for the repair or replacement of periscope containers which provide security and protection for the periscope.

PL830 - Production Engineering funds provide the following functions: value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering efforts designed and incorporated into the production manufacturing process, and other related engineering functions that are integral to all of the Type 8 and 18 items manufactured.

PLXX1 - EHF Periscope High Power Amplifier (HPA) - The HPA is a 250W amplifier that supplies the power for the EHF low data rate submarine antenna system. Combined with the EHF Periscope antenna and the AN/USC-38 EHF terminal communications equipment group or FOT it provides the submarine force a secure anti-jam, low probability of intercept communications asset.

PLXX2 - EHF Periscope Antenna - This is a submarine 5 1/4" antenna mounted on a periscope that provides the submarine access to the EHF MILSTAR satellite system. Combined with the AN/USC-38 EHF terminal communications equipment group or FOT and the HPA it provides the submarine force a secure anti-jam, low probability of intercept communications asset.

PLXX3 - EHF Follow-On Terminal (FOT) - The FOT is an advanced AN/USC-38 EHF terminal communications equipment group that Integrates the LDR/MDR terminal into one VME drawer. The FOT is the replacement LDR/MDR terminal for those platforms without an AN/USC-38 LDR terminal. Combined with the EHF Periscope antenna and the HPA it provides the submarine force a secure anti-jam, low probability of intercept communications asset.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

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**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET**

**P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE

**SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL**

PL5IN - Funding is for the installation of Fleet Modernization Program Equipment Only

Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.

P-1 SHOPPING LIST

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                              |                                         |         |                                    | Weapon System |                                                                                       |            |          | DATE:<br>FEBRUARY 2000 |            |          |           |            |          |           |            |        |
|------------------------------------------------------------------|-----------------------------------------|---------|------------------------------------|---------------|---------------------------------------------------------------------------------------|------------|----------|------------------------|------------|----------|-----------|------------|----------|-----------|------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 |                                         |         |                                    | ID Code<br>A  | P-1 ITEM NOMENCLATURE/SUBHEAD<br>SUBMARINE PERISCOPES AND IMAGING PROGRAM/H1PL/083100 |            |          |                        |            |          |           |            |          |           |            |        |
| COST CODE                                                        | ELEMENT OF COST                         | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                                       |            |          |                        |            |          |           |            |          |           |            |        |
|                                                                  |                                         |         | Prior Years                        | FY 1999       |                                                                                       |            | FY 2000  |                        |            | FY 2001  |           |            |          |           |            |        |
|                                                                  |                                         |         | Total Cost                         | Quantity      | Unit Cost                                                                             | Total Cost | Quantity | Unit Cost              | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost |        |
| PL001                                                            | Type 8B Mod 3 Periscope (SSN)*          | A       |                                    | 4             | 1,074                                                                                 | 4,296      |          | 15                     | 1,122      | 16,830   |           |            |          | 0         |            |        |
| PL006                                                            | Type 18 Imaging Components              | A       |                                    |               |                                                                                       | 8,007      |          |                        | 4,351      |          |           |            | 1,435    |           |            |        |
| PL007                                                            | Type 18 Periscope ADF Mod               | A       |                                    |               |                                                                                       | 0          |          |                        | 0          |          |           |            | 0        |           |            |        |
| PL011                                                            | Periscope Field Change Kits             | A       |                                    |               |                                                                                       | 1,773      |          |                        | 2,649      |          |           |            | 5,995    |           |            |        |
| PL012                                                            | Periscope Special Support Equipment     | A       |                                    |               |                                                                                       | 796        |          |                        | 451        |          |           |            | 413      |           |            |        |
| PL015                                                            | Periscope Interim Contractor Support    | A       |                                    |               |                                                                                       | 3,683      |          |                        | 3,738      |          |           |            | 1,046    |           |            |        |
| PL016                                                            | Periscope Training                      | A       |                                    |               |                                                                                       | 137        |          |                        | 139        |          |           |            | 138      |           |            |        |
| PL017                                                            | Periscope E&E Adapt Shipping Containers | A       |                                    |               |                                                                                       | 0          |          |                        | 0          |          |           |            | 0        |           |            |        |
| PL018                                                            | Periscope EPB Shipping Containers       | A       |                                    |               |                                                                                       | 0          |          |                        | 0          |          |           |            | 0        |           |            |        |
| PL019                                                            | Periscope Shipping Containers           | A       |                                    |               |                                                                                       | 0          |          |                        | 0          |          |           |            | 0        |           |            |        |
| PL830                                                            | Periscope Production Engineering        | A       |                                    |               |                                                                                       | 2,321      |          |                        | 2,309      |          |           |            | 2,235    |           |            |        |
| PL900                                                            | Periscope Consulting Services           | A       |                                    |               |                                                                                       | 643        |          |                        | 653        |          |           |            | 656      |           |            |        |
| PL5IN                                                            | Periscope FMP Installation*             | A       |                                    |               |                                                                                       | 3,874      |          |                        | 8,551      |          |           |            | 4,602    |           |            |        |
|                                                                  |                                         |         | 0                                  |               |                                                                                       | 0          |          |                        | 25,530     |          |           |            | 39,671   |           |            | 16,520 |

\* \$8,259 for FY-00 PL001 and \$2,407 for FY01 installation was erroneously programmed as BA 2 funds per PBD 752 and should have been programmed in H1PL/083100 and 083105 respectively as BA 1 funds.

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                                                                                   |                         |         |                                    |          |           |            | Weapon System |                                                                                   |            |          |           |            | DATE:<br>FEBRUARY 2000 |           |            |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------------------|----------|-----------|------------|---------------|-----------------------------------------------------------------------------------|------------|----------|-----------|------------|------------------------|-----------|------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1: SHIP SUPPORT EQUIPMENT                                                              |                         |         |                                    |          |           |            | ID Code<br>A  | P-1 ITEM NOMENCLATURE/SUBHEAD<br>SUB. PERISCOPES & IMAGING PROGRAM/083100/05/H1PL |            |          |           |            |                        |           |            |       |
| COST CODE                                                                                                                                             | ELEMENT OF COST         | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |            |               |                                                                                   |            |          |           |            |                        |           |            |       |
|                                                                                                                                                       |                         |         | Prior Years                        | FY 1999  |           |            | FY 2000       |                                                                                   |            | FY 2001  |           |            |                        |           |            |       |
|                                                                                                                                                       |                         |         | Total Cost                         | Quantity | Unit Cost | Total Cost | Quantity      | Unit Cost                                                                         | Total Cost | Quantity | Unit Cost | Total Cost | Quantity               | Unit Cost | Total Cost |       |
| PLXX1                                                                                                                                                 | EHF Periscope HPA**     | A       |                                    |          |           | 0          |               |                                                                                   |            | 0        | 7         | 804        | 5,631                  |           |            |       |
| PLXX2                                                                                                                                                 | EHF Periscope Antenna** | A       |                                    |          |           | 0          |               |                                                                                   |            | 0        | 15        | 397        | 5,961                  |           |            |       |
| PLXX3                                                                                                                                                 | EHF FOT**               | A       |                                    |          |           | 0          |               |                                                                                   |            | 0        | 10        | 1,341      | 13,414                 |           |            |       |
| PL5IN                                                                                                                                                 | SPAWAR Installation**   | A       |                                    |          |           | 0          |               |                                                                                   |            | 0        |           |            | 0                      |           |            | 2,478 |
| ** The above funding for PLXX1, PLXX2 & PLXX3 was erroneously placed in H1PL/083100 per PBD 752 and should have been placed in SPAWAR's BA 2 Program. |                         |         |                                    |          |           |            |               |                                                                                   |            |          |           |            |                        |           |            |       |
|                                                                                                                                                       |                         |         | 0                                  |          |           | 0          |               |                                                                                   |            | 0        |           |            | 25,006                 |           |            | 2,478 |

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# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                             |          |                       |                    |                   | Weapon System                                                                |                                |               | A. DATE<br><b>FEBRUARY 2000</b> |                             |                                |
|----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------------------------------------------------|--------------------------------|---------------|---------------------------------|-----------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 SHIP SUPPORT EQUIPMENT</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>SUBMARINE PERISCOPES &amp; IMAGING EQUIP.</b> |                                |               |                                 | SUBHEAD<br><b>H1PL/81PL</b> |                                |
| Cost Element/<br>FISCAL YEAR                                                                       | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                 | CONTRACTOR<br>AND LOCATION     | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW   | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FY99</b><br><b>PL001</b><br>Type 8B Mod 3 Periscope                                             | 4        | \$1,074               | NUWC, Newport      | 9/98              | FP                                                                           | Kollmorgen<br>Northampton, MA. | 6/99          | 8/00                            | YES                         | N/A                            |
| <b>FY00</b><br><b>PL001</b><br>Type 8B Mod 3 Periscope                                             | 15       | \$1,122               | NUWC, Newport      | 9/99              | FP/O                                                                         | Kollmorgen<br>Northampton, MA. | 3/00          | 5/01                            | YES                         | N/A                            |
|                                                                                                    |          |                       |                    |                   |                                                                              |                                |               |                                 |                             |                                |
| D. REMARKS                                                                                         |          |                       |                    |                   |                                                                              |                                |               |                                 |                             |                                |

CLASSIFICATION:

**UNCLASSIFIED**

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) |          |                       |                    |                   | Weapon System                         |                            |               | A. DATE                      |                           |                                |
|--------------------------------------------------------|----------|-----------------------|--------------------|-------------------|---------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE              |                            |               |                              | SUBHEAD                   |                                |
| Other Procurement, Navy                                |          |                       |                    |                   | SUBMARINE PERISCOPES & IMAGING EQUIP. |                            |               |                              | H1PL/81PL                 |                                |
| BA-1 SHIP SUPPORT EQUIPMENT                            |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |
| Cost Element/<br>FISCAL YEAR                           | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE          | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>FY00</u></b>                                     |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |
| PLXX1-EHF P. HPA                                       | 7        | \$804                 | SPAWAR             |                   | SS/FFP/OPT                            | Raytheon, MA               | 12/99         | 12/00                        | YES                       | N/A                            |
| PLXX2-EHF P Ant.                                       | 15       | \$397                 | SPAWAR             |                   | SS/FFP/OPT                            | Raytheon, MA               | 12/99         | 12/00                        | YES                       | N/A                            |
| PLXX3-EHF FOT                                          | 10       | \$1,341               | SPAWAR             |                   | SS/FFP/OPT                            | Raytheon, MA               | 12/99         | 3/01                         | YES                       | N/A                            |
|                                                        |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |
| D. REMARKS                                             |          |                       |                    |                   |                                       |                            |               |                              |                           |                                |

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Type 8 Periscope TYPE MODIFICATION: Shipalt MODIFICATION TITLE: Type 8B Mod 3

DESCRIPTION/JUSTIFICATION:

Provides EHF Satellite Communications (SATCOM)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |      | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |      | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |      |
|-------------------------------------|----------------------------|------|----------------|-----|----------------|-----|----------------|------|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|------|
|                                     | QTY                        | \$   | QTY            | \$  | QTY            | \$  | QTY            | \$   | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| <u>RDT&amp;E</u>                    |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS                   |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS NONRECURRING      |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT                           | 28                         | 51.1 | 2              | 2.3 | 4              | 4.3 | 11             | 12.3 |                |     |                |    |                |    |                |    |                |    |           |    |              | 45 | 70.0 |
| EQUIPMENT NONRECURRING              |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| DATA                                |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| TRAINING EQUIPMENT*                 | 1                          | 2.7  |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              | 1  | 2.7  |
| SUPPORT EQUIPMENT (CCM)             | 1                          | 1.1  |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              | 1  | 1.1  |
| OTHER TRIDENT PAYBACKS*             | 2                          | 2.1  | 3              | 3.2 |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              | 5  | 5.3  |
| OTHER SPARES*                       | 1                          | 1.1  | 2              | 2.3 |                |     | 4              | 4.5  |                |     |                |    |                |    |                |    |                |    |           |    |              | 7  | 7.9  |
| OTHER                               |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |      |                |     |                |     |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALL COST                        | 20                         | 7.2  | 4              | 1.8 | 5              | 2.3 | 5              | 1.9  | 9              | 3.4 |                |    |                |    |                |    |                |    |           |    |              | 43 | 16.6 |
| TOTAL PROCUREMENT                   | 33                         | 58.1 | 7              | 7.7 | 4              | 4.3 | 15             | 16.8 | 0              | 0.0 |                |    |                |    |                |    |                |    |           |    |              | 59 | 87   |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Type 18B Periscope TYPE MODIFICATION: Shipalt MODIFICATION TITLE: Type 18 Video Upgrade

DESCRIPTION/JUSTIFICATION:

Provides replacement of obsolete Type 18 Periscope video components with a digital imaging upgrade.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |      |
|-------------------------------------|----------------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|------|
|                                     | QTY                        | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| <u>RDT&amp;E</u>                    |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS                   |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS NONRECURRING      |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT                           | 2                          | 0.4 | 3              | 0.6 | 29             | 5.8 | 16             | 3.2 |                |     |                |    |                |    |                |    |                |    |           |    |              | 50 | 10.0 |
| EQUIPMENT NONRECURRING              |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| DATA                                |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| TRAINING EQUIPMENT*                 |                            |     |                |     | 1              | 0.2 |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 1  | 0.2  |
| SUPPORT EQUIPMENT (CCM &SS)         |                            |     |                |     | 1              | 0.2 |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 1  | 0.2  |
| OTHER SPARES                        |                            |     |                |     | 6              | 1.2 |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 6  | 1.2  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALL COST                        |                            | 0.4 | 5              | 0.2 | 9              | 0.1 | 20             | 0.2 | 16             | 0.2 |                |    |                |    |                |    |                |    |           |    |              | 50 | 1.1  |
| TOTAL PROCUREMENT                   | 2                          | 0.4 | 3              | 0.6 | 37             | 7.4 | 16             | 3.2 | 0              | 0.0 |                |    |                |    |                |    |                |    |           |    |              | 58 | 12   |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Type 18 Periscope TYPE MODIFICATION: Shipalt MODIFICATION TITLE: Type 18 ADF

DESCRIPTION/JUSTIFICATION:

Provides wideband with reception and instantaneous direction finding.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |      | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |      |
|-------------------------------------|----------------------------|------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|------|
|                                     | QTY                        | \$   | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| <u>RDT&amp;E</u>                    |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS                   |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS NONRECURRING      |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT                           | 39                         | 37.9 | 7              | 7.9 |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 46 | 45.8 |
| EQUIPMENT NONRECURRING              |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| DATA                                |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| TRAINING EQUIPMENT*                 | 3                          | 2.8  |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 3  | 2.8  |
| SUPPORT EQUIPMENT (CCM & SS)        | 4                          | 3.8  |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 4  | 3.8  |
| OTHER LBU/GFE)                      | 3                          | 2.8  |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 3  | 2.8  |
| OTHER                               |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER                               |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALL COST                        | 49                         | 3.3  | 6              | 0.3 | 10             | 0.4 |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 65 | 4.0  |
| TOTAL PROCUREMENT                   | 49                         | 47.3 | 7              | 7.9 | 0              | 0.0 | 0              | 0.0 | 0              | 0.0 |                |    |                |    |                |    |                |    |           |    |              | 56 | 55   |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Submarine Periscopes & Imaging Equip. TYPE MODIFICATION: Ordalts MODIFICATION TITLE: Field Change

DESCRIPTION/JUSTIFICATION:

Provides obsolescence related upgrades for the Submarine Periscopes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |      |      |
|-------------------------------------|----------------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|------|------|
|                                     | QTY                        | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$   |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |      |
| <u>RDT&amp;E</u>                    |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0    | 0.0  |
| <u>PROCUREMENT</u>                  |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |      |
| INSTALLATION KITS                   |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0    | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |      |
| INSTALLATION KITS NONRECURRING      |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      | 0.0  |
| EQUIPMENT                           | 535                        | 3.5 | 167            | 0.9 | 307            | 1.8 | 383            | 2.6 | 232            | 6.0 |                |    |                |    |                |    |                |    |           |    |              | 1624 | 14.8 |
| EQUIPMENT NONRECURRING              |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      | 0.0  |
| DATA                                |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      | 0.0  |
| TRAINING EQUIPMENT*                 |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0    | 0.0  |
| SUPPORT EQUIPMENT (CCM & SS)        |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0    | 0.0  |
| OTHER LBU/GFE)                      |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0    | 0.0  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              | 0    | 0.0  |
| OTHER                               |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      | 0.0  |
| INSTALL COST                        | 296                        | 1.6 | 239            | 1.3 | 167            | 0.9 | 307            | 6.4 | 383            | 1.0 |                |    |                |    |                |    |                |    |           |    |              | 1392 | 11.2 |
| TOTAL PROCUREMENT                   | 535                        | 3.5 | 167            | 0.9 | 307            | 1.8 | 383            | 2.6 | 232            | 6.0 |                |    |                |    |                |    |                |    |           |    |              | 1624 | 15   |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: Sub. Periscopes & Imaging Equip. MODIFICATION TITLE: Field Change

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AITs

ADMINISTRATIVE LEADTIME: 6 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1999: Feb-99

FY 2000: Feb-00

FY 2001: Feb-01

DELIVERY DATE: FY 1999: Feb-00

FY 2000: Feb-01

FY 2001: Feb-02

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |
|-------------------|-------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-----|
|                   | Qty         | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       | 296         | 1.6 | 239     | 1.3 |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 239   | 1.3 |
| FY 1998 EQUIPMENT |             |     |         |     | 167     | 0.9 |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 167   | 0.9 |
| FY 1999 EQUIPMENT |             |     |         |     |         |     | 307     | 6.4 |         |     |         |    |         |    |         |    |         |    |             |    | 307   | 6.4 |
| FY 2000 EQUIPMENT |             |     |         |     |         |     |         |     | 383     | 1.0 |         |    |         |    |         |    |         |    |             |    | 383   | 1.0 |
| FY 2001 EQUIPMENT |             |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2002 EQUIPMENT |             |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2003 EQUIPMENT |             |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2004 EQUIPMENT |             |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2005 EQUIPMENT |             |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| TO COMPLETE       |             |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |    |    |    | FY 2000 |     |     |     | FY 2001 |     |     |     | FY 2002 |    |    |    | FY 2003 |    |    |    | FY 2004 |    |    |    | FY 2005 |    |    |    | TC  | TOTAL |
|-----|---------|---------|----|----|----|---------|-----|-----|-----|---------|-----|-----|-----|---------|----|----|----|---------|----|----|----|---------|----|----|----|---------|----|----|----|-----|-------|
|     | & Prior | 1       | 2  | 3  | 4  | 1       | 2   | 3   | 4   | 1       | 2   | 3   | 4   | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  |     |       |
| In  | 535     | 0       | 55 | 56 | 56 | 0       | 102 | 102 | 103 | 0       | 128 | 128 | 127 | 0       | 0  | 0  | 0  | 0       | 0  | 0  | 0  | 0       | 0  | 0  | 0  | 0       | 0  | 0  | 0  | 149 | 1541  |
| Out | 535     | 0       | 55 | 56 | 56 | 0       | 102 | 102 | 103 | 0       | 128 | 128 | 127 | 0       | 77 | 77 | 78 | 0       | 93 | 93 | 92 | 0       | 70 | 70 | 71 | 0       | 53 | 53 | 54 | 149 | 2422  |

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: \_\_\_\_\_ TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: EHF Per. High Power Amplif. (HPA).

DESCRIPTION/JUSTIFICATION:

Installation of EHF Periscope HPA.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |    | <u>FY 1999</u> |    | <u>FY 2000</u> |     | <u>FY 2001</u> |    | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |     |
|-------------------------------------|----------------------------|----|----------------|----|----------------|----|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|-----|
|                                     | QTY                        | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    |     |
| <u>RDT&amp;E</u>                    |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| <u>PROCUREMENT</u>                  |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    |     |
| INSTALLATION KITS                   |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| INSTALLATION KITS - UNIT COST       |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    |     |
| INSTALLATION KITS NONRECURRING      |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| EQUIPMENT                           |                            |    |                |    |                |    | 7              | 5.7 |                |    |                |    |                |    |                |    |                |    |           |    |              | 7  | 5.7 |
| EQUIPMENT NONRECURRING              |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| DATA                                |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| TRAINING EQUIPMENT*                 |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| SUPPORT EQUIPMENT (CCM)             |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| OTHER TRIDENT PAYBACKS*             |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| OTHER SPARES*                       |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| OTHER                               |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |    |                |    |                |     |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0 |
| INSTALL COST                        |                            |    |                |    |                |    |                | 0.0 |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0 |
| TOTAL PROCUREMENT                   |                            |    |                |    |                |    | 7              | 5.7 |                |    |                |    |                |    |                |    |                |    |           |    |              | 7  | 6   |

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: \_\_\_\_\_ TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: EHF FOT

DESCRIPTION/JUSTIFICATION:

Installation of EHF FOT

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |    | <u>FY 1999</u> |    | <u>FY 2000</u> |      | <u>FY 2001</u> |    | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |      |
|-------------------------------------|----------------------------|----|----------------|----|----------------|----|----------------|------|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|------|
|                                     | QTY                        | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$   | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| <u>RDT&amp;E</u>                    |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS                   |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS NONRECURRING      |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT                           |                            |    |                |    |                |    | 10             | 13.5 |                |    |                |    |                |    |                |    |                |    |           |    |              | 10 | 13.5 |
| EQUIPMENT NONRECURRING              |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| DATA                                |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| TRAINING EQUIPMENT*                 |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| SUPPORT EQUIPMENT (CCM)             |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER TRIDENT PAYBACKS*             |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER SPARES*                       |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER                               |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALL COST                        |                            |    |                |    |                |    |                | 0.0  |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| TOTAL PROCUREMENT                   |                            |    |                |    |                |    | 10             | 13.5 |                |    |                |    |                |    |                |    |                |    |           |    |              | 10 | 14   |

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: \_\_\_\_\_ TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: EHF FOT

DESCRIPTION/JUSTIFICATION:

Installation of EHF FOT

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |    | <u>FY 1999</u> |    | <u>FY 2000</u> |      | <u>FY 2001</u> |    | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |      |
|-------------------------------------|----------------------------|----|----------------|----|----------------|----|----------------|------|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|------|
|                                     | QTY                        | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$   | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| <u>RDT&amp;E</u>                    |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS                   |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS NONRECURRING      |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT                           |                            |    |                |    |                |    | 10             | 13.5 |                |    |                |    |                |    |                |    |                |    |           |    |              | 10 | 13.5 |
| EQUIPMENT NONRECURRING              |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| DATA                                |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| TRAINING EQUIPMENT*                 |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| SUPPORT EQUIPMENT (CCM)             |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER TRIDENT PAYBACKS*             |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER SPARES*                       |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| OTHER                               |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |    |                |    |                |      |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALL COST                        |                            |    |                |    |                |    |                | 0.0  |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| TOTAL PROCUREMENT                   |                            |    |                |    |                |    | 10             | 13.5 |                |    |                |    |                |    |                |    |                |    |           |    |              | 10 | 14   |

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY  
**OTHER PROCUREMENT, NAVY**

P-1 ITEM NOMENCLATURE

**Fire Fighting Equipment 81HB/0910**

Program Element for Code B Items:  
**BA.1: Ships Support Equipment**

Other Related Program Elements

|                              | Prior Years | ID Code | FY | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | To Complete | Total  |
|------------------------------|-------------|---------|----|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| QUANTITY                     |             |         |    |         |         |         |         |         |         |         |             |        |
| COST<br>(In Millions)        |             |         |    | \$11.1  | \$16.9  | \$16.8  | \$17.0  | \$9.1   | \$11.1  | \$10.4  |             | \$92.4 |
| SPARES COST<br>(In Millions) |             |         |    |         |         |         |         |         |         |         |             | \$0.0  |

CNO, Surface Ship Survivability Flag Level committee, and top echelons of the Navy directed that a number of survivability improvements be incorporated into mission - essential ship and combat systems during their acquisition and modernization. Shipboard fires have emphasized the urgent need to upgrade features and design standards that contribute to survivability.

The fire fighter's Self-Contained Breathing Apparatus (SCBA) (HB008) is a compressed air breathing device compatible with the fire fighter protective wear and helmet, and other damage control equipment. The SCBA is a commercially available device which has been tested and certified by the National Institute for Occupational Safety and Health (NIOSH) and is in accordance with the National Fire Protection Association (NFPA) Standard 1981 for a fire fighter's breathing apparatus.

The SCBA will provide breathable air to the fire fighter for a longer period of time than the OBA, with fewer physical demands on the user. It will provide air at a rate satisfying requirements of the user for duration of up to one hour. Equipment supporting the SCBA includes: booster pumps for ships with HP air system, portable diesel compressors for all ships when ships power is lost and portable electric compressors for recharging purposes for all ships (ships with HP air systems when HP air is down and all other ships are primary source of recharge air) and a filter kit which provides breathing quality air to the booster pumps/compressors for use in recharging the SCBA air cylinders. Inventory objective is 74. Thirty-four are included in the Budget Years. Forty are to be procured in subsequent years. Unit cost varies.

**TRAINING EQUIPMENT for SCBA's (HB009)**

- Procurement of SCBA's for use in fire fighters training. This procurement provides SCBA's in FY 00 through FY02, and provides static displays of charging system equipment in FY 04 and FY05.

**PRODUCTION ENGINEERING - (HB830):** Development of technical manuals, PMS, Provisioning Technical documentation (PTD), Program Support Data (PSD) and Allowance Parts List (APL's); Engineering in support of design reviews. This work can be accomplished by CSS, Panama City as the in-service engineering agent, other Naval activities or contractors as appropriate.

**INSTALLATION OF EQUIPMENT - HB5IN:**

Funding is for installation of equipment including Fleet Modernization Program installations, installation of training equipment, and installation of equipment in other shore facilities.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                             |                                         |         |                                    | Weapon System |                                                                          |            |          | DATE:<br><b>FEBRUARY 2000</b> |            |               |              |            |          |               |            |
|-----------------------------------------------------------------|-----------------------------------------|---------|------------------------------------|---------------|--------------------------------------------------------------------------|------------|----------|-------------------------------|------------|---------------|--------------|------------|----------|---------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b> |                                         |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>FireFighting Equipment 81HB/0910</b> |            |          |                               |            |               |              |            |          |               |            |
| COST CODE                                                       | ELEMENT OF COST                         | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                          |            |          |                               |            |               |              |            |          |               |            |
|                                                                 |                                         |         | Prior Years                        | FY 1998       |                                                                          |            | FY 1999  |                               |            | FY 2000       |              |            | FY 2001  |               |            |
|                                                                 |                                         |         | Total Cost                         | Quantity      | Unit Cost                                                                | Total Cost | Quantity | Unit Cost                     | Total Cost | Quantity      | Unit Cost    | Total Cost | Quantity | Unit Cost     | Total Cost |
|                                                                 | <b><u>N85 EXPEDITIONARY WARFARE</u></b> |         |                                    |               |                                                                          |            |          |                               |            |               |              |            |          |               |            |
| HB008                                                           | BREATHING APPARATUS                     |         |                                    |               |                                                                          |            | 0        | 4                             | 682.5      | 2,730         |              | 3          | 664.0    | 1,992         |            |
| HB830                                                           | PRODUCTION ENGINEERING                  |         |                                    |               |                                                                          |            | <u>0</u> |                               |            | <u>150</u>    |              |            |          | <u>75</u>     |            |
|                                                                 | <b>N85 Subtotal</b>                     |         |                                    |               |                                                                          |            | <b>0</b> |                               |            | <b>2,880</b>  |              |            |          | <b>2,067</b>  |            |
|                                                                 | <b><u>N86 SURFACE WARFARE</u></b>       |         |                                    |               |                                                                          |            |          |                               |            |               |              |            |          |               |            |
| HB008                                                           | BREATHING APPARATUS                     |         |                                    |               |                                                                          | 4          | 332.750  | 1,331                         | 8          | 310.750       | 2,486        | 7          | 307.429  | 2,152         |            |
| HB830                                                           | PRODUCTION ENGINEERING                  |         |                                    |               |                                                                          |            |          | 296                           |            |               |              |            |          | 89            |            |
| HB009                                                           | TRAINING EQUIPMENT SCBA'S               |         |                                    |               |                                                                          |            |          | <u>0</u>                      | 278        | 2.137         | <u>594</u>   |            |          | 0             |            |
|                                                                 | <b>N86 Subtotal</b>                     |         |                                    |               |                                                                          |            |          | <b>1,627</b>                  |            |               | <b>3,080</b> |            |          | <b>2,241</b>  |            |
|                                                                 | <b><u>N88 AIR WARFARE</u></b>           |         |                                    |               |                                                                          |            |          |                               |            |               |              |            |          |               |            |
| HB008                                                           | BREATHING APPARATUS                     |         |                                    |               |                                                                          |            |          | 0                             | 1          | 1,319         | 1,319        | 2          | 1,319.5  | 2,639         |            |
| HB830                                                           | PRODUCTION ENGINEERING                  |         |                                    |               |                                                                          |            |          | <u>0</u>                      |            | <u>0</u>      |              |            |          | <u>0</u>      |            |
|                                                                 | <b>N88 Subtotal</b>                     |         |                                    |               |                                                                          |            |          | <b>0</b>                      |            | <b>1,319</b>  |              |            |          | <b>2,639</b>  |            |
|                                                                 | <b>Equipment Subtotal</b>               |         |                                    |               |                                                                          |            |          | <b>1,627</b>                  |            | <b>7,279</b>  |              |            |          | <b>6,947</b>  |            |
| HB5IN                                                           | <b><u>INSTALLATION</u></b>              |         |                                    |               |                                                                          |            |          |                               |            |               |              |            |          |               |            |
|                                                                 | N85 EXPEDITIONARY WARFARE               |         |                                    |               |                                                                          |            |          | 51                            |            |               | 1,390        |            |          | 1,602         |            |
|                                                                 | N86 SURFACE WARFARE                     |         |                                    |               |                                                                          |            |          | 8,537                         |            |               | 7,085        |            |          | 6,045         |            |
|                                                                 | N87 SUBMARINE WARFARE                   |         |                                    |               |                                                                          |            |          | 922                           |            |               | 0            |            |          | 0             |            |
|                                                                 | N88 AIR WARFARE                         |         |                                    |               |                                                                          |            |          | <u>0</u>                      |            | <u>1,182</u>  |              |            |          | <u>2,243</u>  |            |
|                                                                 | <b>Install Subtotal</b>                 |         |                                    |               |                                                                          |            |          | <b>9,510</b>                  |            | <b>9,657</b>  |              |            |          | <b>9,890</b>  |            |
|                                                                 |                                         |         |                                    |               |                                                                          |            |          | <b>0</b>                      |            | <b>11,137</b> |              |            |          | <b>16,837</b> |            |

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                               |          |                       |                    |                   | Weapon System                                                   |                            | A. DATE<br><b>FEBRUARY 2000</b> |                              |                           |                                |
|------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------------------------------|----------------------------|---------------------------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>FIRE FIGHTING EQUIPMENT 0910</b> |                            |                                 |                              | SUBHEAD<br><b>81HB</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                         | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                    | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE                   | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FY 99</b><br><u>N86 SURFACE WARFARE</u><br>HB008 Breathing Apparatus                              | 4        | 332.75                | NSWC CSS, FL       |                   | WR                                                              | GSA SCHEDULE COTS          | Nov 98                          | Jan 99                       | YES                       |                                |
| <b>FY 00</b><br><u>N85 EXPEDITIONARY WARFARE</u><br>HB008 Breathing Apparatus                        | 4        | 682.5                 | NSWC CSS, FL       |                   | WR                                                              | GSA SCHEDULE COTS          | Nov 99                          | Jan 00                       | YES                       |                                |
| <u>N86 SURFACE WARFARE</u><br>HB008 Breathing Apparatus                                              | 8        | 310.75                | NSWC CSS, FL       |                   | WR                                                              | GSA SCHEDULE COTS          | Nov 99                          | Jan 00                       | YES                       |                                |
| HB009 Training SCBA                                                                                  | 278      | 2.137                 | NSWC CSS, FL       |                   | WR                                                              | GSA SCHEDULE COTS          | Nov 99                          | MAR 00                       | YES                       |                                |
| <u>N88 AIR WARFARE</u><br>HB008 Breathing Apparatus                                                  | 1        | 1,319.0               | NSWC CSS, FL       |                   | WR                                                              | GSA SCHEDULE COTS          | Nov 99                          | Jan 00                       | YES                       |                                |
| D. REMARKS                                                                                           |          |                       |                    |                   |                                                                 |                            |                                 |                              |                           |                                |

CLASSIFICATION: UNCLASSIFIED

| B. APPROPRIATION/BUDGET ACTIVITY                                              |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE     |                            |               |                              | A. DATE                   |                                |
|-------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| Other Procurement, Navy                                                       |          |                       |                    |                   | FIRE FIGHTING EQUIPMENT 0910 |                            |               |                              | FEBRUARY 2000             |                                |
| BA-1: Ships Support Equipment                                                 |          |                       |                    |                   |                              |                            |               |                              | SUBHEAD                   |                                |
|                                                                               |          |                       |                    |                   |                              |                            |               |                              | 81HB                      |                                |
| Cost Element/<br>FISCAL YEAR                                                  | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FY 01</b><br><u>N85 EXPEDITIONARY WARFARE</u><br>HB008 Breathing Apparatus | 3        | 664.0                 | NSWC CSS, FL       |                   | WR                           | GSA SCHEDULE COTS          | Nov 00        | Jan 01                       | YES                       |                                |
| <u>N86 SURFACE WARFARE</u><br>HB008 Breathing Apparatus                       | 7        | 307.429               | NSWC CSS, FL       |                   | WR                           | GSA SCHEDULE COTS          | Nov 00        | Jan 01                       | YES                       |                                |
| <u>N88 AIR WARFARE</u><br>HB008 Breathing Apparatus                           | 2        | 1,319.5               | NSWC CSS, FL       |                   | WR                           | GSA SCHEDULE COTS          | Nov 00        | Jan 01                       | YES                       |                                |
| D. REMARKS                                                                    |          |                       |                    |                   |                              |                            |               |                              |                           |                                |

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: HALON (HB001) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Halon 1301 Firefighting systems include new time delays, liquid level indicator Halon/1301 conservation.  
I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |      | <u>FY 1998</u> |    | <u>FY 1999</u> |    | <u>FY 2000</u> |    | <u>FY 2001</u> |    | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |    |      |
|-------------------------------------|----------------------------|------|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|----|------|
|                                     | QTY                        | \$   | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| <u>RDT&amp;E</u>                    |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS                   |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    |      |
| INSTALLATION KITS NONRECURRING      |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT                           |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| EQUIPMENT NONRECURRING              |                            | 2.6  |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 2.6  |
| ENGINEERING CHANGE ORDERS           |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| DATA                                |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| TRAINING EQUIPMENT                  |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| SUPPORT EQUIPMENT                   |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| OTHER                               |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| OTHER                               |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| OTHER                               |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |      |                |    |                |    |                |    |                |    |                |    |                |    |                |    |                |    |           |    |              |    | 0.0  |
| INSTALL COST                        |                            | 16.9 |                |    | 0.9            |    | 0.5            |    | 0.5            |    | 0.5            |    | 0.5            |    | 0.2            |    | 0.5            |    |           |    |              |    | 20.5 |
| TOTAL PROCUREMENT                   |                            | 19.5 |                |    | 0.9            |    | 0.5            |    | 0.5            |    | 0.5            |    | 0.5            |    | 0.2            |    | 0.5            |    |           |    |              |    | 23.1 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: HALON (HB001) MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VAR

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: \_\_\_\_\_ Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |      |     |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |      |
|-------------------|-------------|------|-----|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|----|-------|------|
|                   | Qty         | \$   | Qty | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$   |
| PRIOR YEARS       |             | 16.9 |     |    |         | 0.9 |         | 0.5 |         | 0.5 |         | 0.5 |         | 0.5 |         | 0.2 |         | 0.5 |             |    | 0     | 20.5 |
| FY 1998 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 1999 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2000 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2001 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2002 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2003 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2004 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2005 EQUIPMENT |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| TO COMPLETE       |             |      |     |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    |       |      |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     |                    | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0                  | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 0     |
| Out | 0                  | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 0     |

P-3A

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: AFFF IMPROVED FIREFIGHTING TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: FIREFIGHTING EQUIPMENT  
 (HB005)

DESCRIPTION/JUSTIFICATION:

Hardware such as Manual Hydarulic Control Valve, Veinozzle Bridge Panels and Sanitary Solid Block for storage.  
 I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES \_\_\_\_\_

|                                     | FY 1997 & Prior |      | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | IC  |    | TOTAL |      |     |
|-------------------------------------|-----------------|------|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|------|-----|
|                                     | QTY             | \$   | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$   |     |
| <b>FINANCIAL PLAN (IN MILLIONS)</b> |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      |     |
| <b>RDT&amp;E</b>                    |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0    | 0.0 |
| <b>PROCUREMENT</b>                  |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      |     |
| INSTALLATION KITS                   |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0    | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| INSTALLATION KITS NONRECURRING      |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| EQUIPMENT                           |                 | 9.1  |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 9.1 |
| EQUIPMENT NONRECURRING              |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| DATA                                |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| TRAINING EQUIPMENT                  |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| SUPPORT EQUIPMENT                   |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| OTHER                               |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| OTHER                               |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| OTHER                               |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |      |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |      | 0.0 |
| INSTALL COST                        |                 | 17.4 |         |    | 6.1     |    | 3.8     |    | 3.3     |    | 3.1     |    | 1.0     |    | 1.0     |    | 1.0     |    |     |    |       | 36.7 |     |
| TOTAL PROCUREMENT                   |                 | 26.5 |         |    | 6.1     |    | 3.8     |    | 3.3     |    | 3.1     |    | 1.0     |    | 1.0     |    | 1.0     |    |     |    |       | 45.8 |     |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: AFFF IMPROVED MODIFICATION TITLE: FIREFIGHTING EQUIPMENT  
FIREFIGHTING (HB005)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VAR

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: \_\_\_\_\_ Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |      | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |      |
|-------------------|-------------|------|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|----|-------|------|
|                   | Qty         | \$   | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$   |
| PRIOR YEARS       |             | 17.4 |         |    |         | 6.1 |         | 3.8 |         | 3.3 |         | 3.1 |         | 1.0 |         | 1.0 |         | 1.0 |             |    | 0     | 36.7 |
| FY 1998 EQUIPMENT |             |      |         |    |         | 0.0 |         | 0.0 |         | 0.0 |         |     |         |     |         | 0.0 |         | 0.0 |             |    | 0     |      |
| FY 1999 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2000 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2001 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2002 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2003 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2004 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| FY 2005 EQUIPMENT |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0  |
| TO COMPLETE       |             |      |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    |       |      |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 0     |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 0     |

P-3A

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: BREATHING APPARATUS TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: FIREFIGHTING EQUIPMENT  
 (FBA HB008)

DESCRIPTION/JUSTIFICATION:

The FFBA will provide breathable air to the Fire Fighter for a longer period of time than the OBA and with reduced physical demands on the user.  
 I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES \_\_\_\_\_

|                                     | FY 1997 & Prior |    | FY 1998 |    | FY 1999 |     | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|----|---------|----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|----|------|
|                                     | QTY             | \$ | QTY     | \$ | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    |      |
| INSTALLATION KITS                   |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0  |
| INSTALLATION KITS NONRECURRING      |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |    |         | 4  | 1.3     | 13  | 6.5     | 12 | 6.8     | 11 | 6.1     | 10 | 4.3     | 9  | 3.4     | 9  | 3.8     |    |     |    |       | 68 | 32.2 |
| EQUIPMENT NONRECURRING              |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| DATA                                |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |    |         |    |         | 278 | 0.6     |    |         |    |         |    |         | 2  | 0.1     | 2  | 0.1     |    |     |    |       |    | 0.8  |
| SUPPORT EQUIPMENT                   |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| OTHER                               |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| OTHER                               |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| OTHER                               |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |    |         | 4  | 2.1     | 13  | 5.3     | 12 | 6.0     | 11 | 7.2     | 10 | 3.4     | 9  | 6.3     | 9  | 4.9     |    |     |    |       | 68 | 35.2 |
| TOTAL PROCUREMENT                   |                 |    |         |    | 3.4     |     | 12.4    |    | 12.8    |    | 13.3    |    | 7.7     |    | 9.8     |    | 8.8     |    |     |    |       | 0  | 68.2 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: BREATHING APPARATUS (FBA HB008) MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

PRODUCTION LEADTIME: 2 Months

CONTRACT DATES: FY 1999: Nov-98

FY 2000: Nov-99

FY 2001: Nov-00

DELIVERY DATE: FY 1999: Jan-99

FY 2000: Jan-00

FY 2001: Jan-01

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |             |    | 0     | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    |         | 0.0 |         | 0.0 |         | 0.0 |         |     |         |     |         | 0.0 |         | 0.0 |             |    | 0     | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    | 4       | 2.1 |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 4     | 2.1 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     | 11      | 5.3 | 2       | 1.0 |         |     |         |     |         |     |         |     |             |    | 13    | 6.3 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     | 9       | 5.0 | 3       | 1.5 |         |     |         |     |         |     |             |    | 12    | 6.5 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         |     | 11      | 5.7 |         |     |         |     |         |     |             |    | 11    | 5.7 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     | 8       | 3.4 | 2       | 0.9 |         |     |             |    | 10    | 4.3 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     | 9       | 5.4 |         |     |             |    | 9     | 5.4 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     | 9       | 4.9 |             |    | 9     | 4.9 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |    |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|----|
|     | & Prior | 1       | 2 | 3 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 |    |       | 4  |
| In  | 0       | 2       | 2 | 0 | 0 | 0       | 0 | 4 | 4 | 3       | 2 | 3 | 3 | 3       | 3 | 4 | 4 | 3       | 0 | 3 | 3 | 2       | 2 | 3 | 3 | 3       | 1 | 3 | 3 | 2  | 0     | 68 |
| Out | 0       | 0       | 0 | 2 | 0 | 2       | 0 | 0 | 4 | 4       | 3 | 2 | 3 | 3       | 3 | 3 | 4 | 4       | 3 | 0 | 3 | 3       | 2 | 2 | 3 | 3       | 3 | 1 | 3 | 3  | 2     | 68 |

P-3A

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:

**February 2000**

|                                                                        |                                                                                          |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br><b>OTHER PROCUREMENT, NAVY</b> | <b>P-1 ITEM NOMENCLATURE</b><br><b>COMMAND AND CONTROL SWITCHBOARDS 81GE BLI: 092500</b> |
| <b>BA-1: SHIPS SUPPORT EQUIPMENT</b>                                   |                                                                                          |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Program Element for Code B Items: | Other Related Program Elements |
|-----------------------------------|--------------------------------|

|                              | Prior Years | ID Code | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | To Complete | Total  |
|------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| QUANTITY                     |             |         |         |         |         |         |         |         |         |         |             |        |
| COST<br>(In Millions)        |             | A       |         | \$10.0  | \$14.2  | \$10.5  | \$9.2   | \$7.7   | \$4.1   | \$4.2   |             | \$59.9 |
| SPARES COST<br>(In Millions) |             |         |         |         |         |         |         |         |         |         |             | \$0.0  |

**PROGRAM DESCRIPTION/JUSTIFICATION:**

The switchboard program provides mission critical switching capability required to link shipboard combat equipment including weapons, launchers, sensors, computers and navigation equipment. In essence, switchboards serve as the central connection point for most elements of combat and weapon systems, interior communications, data transfer, and command and control systems. They are designed to accommodate either analog or digital interfaces or a combination of both. In total, this budget item supports approximately 161 ships and 1,024 installed switchboards throughout the acquisition life cycle.

Functions include: data routing; action cutout; test and operating mode selection (including casualty back-up modes); power monitoring and control; circuit protection; peripheral equipment isolation; and signal processing, frequency conversion amplification and switching. In summary, the primary purpose is to provide systems intra and interface compatibility.

Changes in other elements of the combat and IC systems will frequently mandate either conjunctive modification to switchboards via ordnance alteration/field change or partial or complete replacement of existing switchboards. Typical switchboard mods include hardware/field change kits, ORDALT instructions, technical manual updates and revisions to other supporting documentation. Such changes are usually required subsequent to the initial installation, either in the same or later ship overhauls or availability. New Switchboards are normally installed during a regular overhaul by a shipyard.

Command and control switchboards are currently installed on and are required for almost all surface combatants and amphibious warfare ships. Individual switchboard unit cost varies from ship to ship, depending upon size, complexity, and whether analog or digital interfaces or some combination thereof are utilized. Modifications to existing switchboards via ORDALTs or Field Changes are quantified by kits or change packages rather than individual units. Switchboard hardware is normally procured by the Invitation for Bids (IFB) process, from manufacturers on Qualified Products List (QPL)-17000. There are currently six companies listed on QPL-17000. All contracts awarded are competitive, fixed price.

PUC GE001 - Reliability, Maintainability, & Availability (RMA): Evaluate product improvement proposals designed to improve switching capability and availability, upgrade unreliable components and replace obsolete parts and items no longer in production.

PUC GE002 - Incorporation of New Switching Technologies/MK 443/MK 70: Incorporation of new switching technologies and techniques that are to be applied to Command and Control & Interior Communications Switchboards and switching control devices. This line will also be used in the procurement of devices, such as the MK 443 touch screen microprocessor based Computer Switching Control Panel (CSCP). It will be used to address NAVSEA affordability issues, and expansion in the use of commercial-off-the-shelf (COTS) non-developmental item (NDI) and a decrease in life cycle costs.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY**

**BA-1 SHIPS SUPPORT EQUIPMENT**

P-1 ITEM NOMENCLATURE

**COMMAND AND CONTROL SWITCHBOARDS 81GE**

**BLI: 092500**

PUC GE003 - Design, TM & MODs: This line covers the non-recurring costs to modify an existing or prepare a new design drawing and spec package to implement the switching scheme necessary for a ship's switchboard to properly integrate all elements of the Combat System. The design package is used to procure hardware modification kits (ORDALTs or Field Changes) and contains one or more of the following:

- Build-to-print drawings used in the manufacturing of hardware items.
- Installation control drawings.
- System test procedures.
- Technical/tactical operation manuals.

Additionally, design engineering and kit development for unauthorized modifications to switchboard equipment will be covered under this line and will follow the criteria mentioned above to produce a drawing and spec package necessary to document the unauthorized change. The non-recurring costs associated with the design and production of the Microprocessor CSCP is not covered here but rather in PUC GE002.

PUC GE022 - Distributed Command & Control Switching System (DC<sup>2</sup>S<sup>2</sup>): This program supports material procurement of engineering solutions developed to infuse switchboards with state of the industry switching technology to overcome the limitations incurred by using using and the high cost associated with making changes to the electromechanical switching technology currently deployed. This effort will also ship's force to interrogate switching status and to change the switching configuration via LAN connections. System self diagnostics and fault isolation will decrease switchboard trouble-shooting and repair time increasing system availability.

PUC GE004, GE005, GE006, GE066, GE067, GE068, GE069: Provides for new switching requirements mandated in SHIPALTS, ORDALTS, and/or Warfare Improvement Plan (WIP) Warfare Improvement Program Execution (WIPE) documents. Procure conjunctive switchboard ORDALTs. Engineering changes and field changes for various combat system element upgrades including ACDS, BFTT, CEC, RAIDS, RAM, SSDS, SPQ-9(B), SLQ 32 upgrade, EHF SATCOM, JTCS-A JOTS II, RADDs, enhanced OBT, C2P/JTIDS, INMARSAT, LAMPS MK III, DDI, NAVSSI, NULKA, NSSMS, NTCS-A/EPROM, AIEWS and UYK 42 Upgrades. Additionally, this line allows for the procurement of ORDALTs resulting from engineering change proposals to fix equipment modified through unauthorized and/or undocumented switchboard modifications.

PUC GE099 - Interior Communication (IC) Switchboards: This program supports engineering development efforts and material procurement to support - Safety, War Fighting Improvements, and Life Cycle Cost Reduction and other efforts that require new or modified interfaces with IC Switchboards on all United States Surface Ships.

PUC GE830 - Production Engineering: Provide quality assurance oversight and burn-in testing of production switchboards and switching equipment. Monitor contractor compliance of manufacturing to as built drawings and delivery schedules.

PUC GE900 - Shipboard Air Traffic Control Communications (SATCC): Supports material procurement of engineering solutions to provide reliable, on-demand voice communication switching capability to safely control high-tempo flight operations on large deck platforms. This effort provides common integrated voice terminals for Air Traffic Control (ATC), Landing Signal Officer (LSO) and Primary Platforms and provides digital technology to interface with Digital Switch Voice System (DSVS) / Integrated Voice Network (IVN). SATCC replaces obsolete equipment (OJ-314) on CV/CVN.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY**

**BA-1 SHIPS SUPPORT EQUIPMENT**

P-1 ITEM NOMENCLATURE

**COMMAND AND CONTROL SWITCHBOARDS 81GE**

**BLI: 092500**

PUC GE950 - This program supports material procurement of engineering solutions developed as part of the LHA Mid-life maintenance upgrade program and material procurement of the Integrated Voice Network System for the Command and Control Ship program. The LHA Mid Life program is a joint OPNAV, CINCLANTFLT, SURFLANT, CINCPACFLT, and SURFPAC initiative to resolve maintenance deficiencies, increase readiness, and reduce future maintenance costs enabling the ships to reach their service life. For the Command and Control Ship program the IVN/ISDN system provides replacement of current unsupported, labor intensive shipboard tactical interior communication systems. IVN/ISDN provides increased video, voice and data communications capability, and decreases the number of hand sets and terminals in confined operational spaces onboard the ship.

PUC GEINS - Outyear installation funding identified supports installation of ORDALTs/enhancements/upgrades for command and control switchboards and new switchboards installed via ship alterations (SHIPALTs). This program also supports installation of engineering solutions developed as part of the LHA Mid-life maintenance, and Command and Control Ships Integrated Voice Network, upgraded programs. This is accomplished by integrating with IT-21 Network Architect; post Y2K features and system upgrades are possible due to COTS application.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                     |         |                                    | Weapon System |                                                                                   |            |          |           |            |               |           | DATE:<br>February 2000 |               |           |               |
|------------------------------------------------------------------------------------------|-------------------------------------|---------|------------------------------------|---------------|-----------------------------------------------------------------------------------|------------|----------|-----------|------------|---------------|-----------|------------------------|---------------|-----------|---------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                     |         |                                    | ID Code<br>A  | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Command and Control Switchboards LI: 092500 81GE |            |          |           |            |               |           |                        |               |           |               |
| COST CODE                                                                                | ELEMENT OF COST                     | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                                   |            |          |           |            |               |           |                        |               |           |               |
|                                                                                          |                                     |         | Prior Years                        | FY 1998       |                                                                                   |            | FY 1999  |           |            | FY 2000       |           |                        | FY 2001       |           |               |
|                                                                                          |                                     |         | Total Cost                         | Quantity      | Unit Cost                                                                         | Total Cost | Quantity | Unit Cost | Total Cost | Quantity      | Unit Cost | Total Cost             | Quantity      | Unit Cost | Total Cost    |
|                                                                                          | <b>N85</b>                          |         |                                    |               |                                                                                   |            |          |           |            |               |           |                        |               |           |               |
| GE067                                                                                    | LHA, LCC, LHD ORDALTs/Field Changes | A       |                                    |               |                                                                                   |            |          | 428       |            |               | 230       |                        |               |           | 245           |
| GE950                                                                                    | INTEGRATED VOICE NETWORK System     | A       |                                    |               |                                                                                   |            |          | 2         | 2,691      | 5,382         | 1         | 3,210                  | 3,210         |           | 0             |
|                                                                                          | <b>N85 Subtotal</b>                 |         |                                    |               |                                                                                   |            |          |           |            | <b>5,810</b>  |           |                        | <b>3,440</b>  |           | <b>245</b>    |
|                                                                                          | <b>N86</b>                          |         |                                    |               |                                                                                   |            |          |           |            |               |           |                        |               |           |               |
| GE001                                                                                    | RMA                                 | A       |                                    |               |                                                                                   |            |          | 50        |            |               | 50        |                        |               |           | 50            |
| GE002                                                                                    | MK 443/MK 70/ICNET                  | A       |                                    |               |                                                                                   |            |          | 0         |            |               | 0         |                        |               |           | 0             |
| GE003                                                                                    | C & C SWBDs Design, TM & MODs       | A       |                                    |               |                                                                                   |            |          | 1,247     |            |               | 1,170     |                        |               |           | 1,103         |
| GE004                                                                                    | DDG 993 ORDALTs/Field Changes       | A       |                                    |               |                                                                                   |            |          | 0         |            |               | 0         |                        |               |           | 0             |
| GE005                                                                                    | CG 47/DDG 51 ORDALTs/Field Changes  | A       |                                    |               |                                                                                   |            |          | 175       |            |               | 440       |                        |               |           | 460           |
| GE006                                                                                    | DD 963 SWBDs, ORDALTs/Field Changes | A       |                                    |               |                                                                                   |            |          | 275       |            |               | 90        |                        |               |           | 155           |
| GE022                                                                                    | DC2S2                               | A       |                                    |               |                                                                                   |            |          | 0         |            |               | 520       |                        |               |           | 820           |
| GE066                                                                                    | CGN ORDALTs /Field Changes          | A       |                                    |               |                                                                                   |            |          | 0         |            |               | 0         |                        |               |           | 0             |
| GE068                                                                                    | FFG SWBDs, ORDALTs/Field Changes    | A       |                                    |               |                                                                                   |            |          | 15        |            |               | 25        |                        |               |           | 25            |
| GE099                                                                                    | IC Switchboards                     | A       |                                    |               |                                                                                   |            |          | 97        |            |               | 545       |                        |               |           | 395           |
| GE830                                                                                    | Production Engineering              | A       |                                    |               |                                                                                   |            |          | 75        |            |               | 75        |                        |               |           | 75            |
| GE950                                                                                    | IVN System                          | A       |                                    |               |                                                                                   |            |          | 0         |            |               | 2         | 2,112                  | 4,245         |           | 0             |
|                                                                                          | <b>N86 Subtotal</b>                 |         |                                    |               |                                                                                   |            |          |           |            | <b>1,934</b>  |           |                        | <b>7,160</b>  |           | <b>3,083</b>  |
|                                                                                          | <b>N88</b>                          |         |                                    |               |                                                                                   |            |          |           |            |               |           |                        |               |           |               |
| GE069                                                                                    | CV/CVN ORDALTs/Field Changes        | A       |                                    |               |                                                                                   |            |          | 420       |            |               | 90        |                        |               |           | 210           |
| GE900                                                                                    | SATCC                               | A       |                                    |               |                                                                                   |            |          | 0         |            |               | 0         |                        | 4             | 1,100     | 4,400         |
|                                                                                          | <b>N88 Subtotal</b>                 |         |                                    |               |                                                                                   |            |          |           |            | <b>420</b>    |           |                        | <b>90</b>     |           | <b>4,610</b>  |
| GEINS                                                                                    | Installation N85                    |         |                                    |               |                                                                                   |            |          | 1,255     |            |               | 1,218     |                        |               |           | 1,065         |
| GEINS                                                                                    | Installation N86                    |         |                                    |               |                                                                                   |            |          | 591       |            |               | 2,249     |                        |               |           | 0             |
| GEINS                                                                                    | Installation N88                    |         |                                    |               |                                                                                   |            |          | 0         |            |               | 0         |                        |               |           | 1,483         |
| GEINS                                                                                    | Installation N88 (NON FMP)          |         |                                    |               |                                                                                   |            |          | 0         |            |               | 0         |                        |               |           | 0             |
|                                                                                          | <b>Install Subtotal</b>             |         |                                    |               |                                                                                   |            |          |           |            | <b>1,846</b>  |           |                        | <b>3,467</b>  |           | <b>2,548</b>  |
|                                                                                          | <b>GRAND TOTAL</b>                  |         |                                    |               |                                                                                   |            |          |           |            | <b>10,010</b> |           |                        | <b>14,157</b> | <b>0</b>  | <b>10,486</b> |

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) |          |                       |                    |                   | Weapon System                           |                                         |               | A. DATE                      |                           |                                |
|--------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------|-----------------------------------------|---------------|------------------------------|---------------------------|--------------------------------|
|                                                        |          |                       |                    |                   |                                         |                                         |               | <b>February 2000</b>         |                           |                                |
| B. APPROPRIATION/BUDGET ACTIVITY                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE                |                                         |               |                              | SUBHEAD                   |                                |
| <b>Other Procurement, Navy</b>                         |          |                       |                    |                   | <b>COMMAND AND CONTROL SWITCHBOARDS</b> |                                         |               |                              | <b>81GE</b>               |                                |
| <b>OPN BA-1: SHIPS SUPPORT EQUIPMENT</b>               |          |                       |                    |                   |                                         |                                         |               |                              |                           |                                |
| Cost Element/<br>FISCAL YEAR                           | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE            | CONTRACTOR<br>AND LOCATION              | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FY 1999<br>GE950<br>INTEGRATED VOICE<br>NETWORK        | 2        | 2691                  | SSC CHARLESTON     | TSR - 11/98       | GSA/FFP                                 | LUCENT TECHNOLOGIES<br>GREENSBORO, NC   | 6/99          | 11/99                        | YES                       |                                |
| FY 2000<br>GE950<br>INTEGRATED VOICE<br>NETWORK        | 3        | 2485                  | SSC CHARLESTON     | TSR - 11/98       | GSA/FFP                                 | LUCENT TECHNOLOGIES                     | 3/00          | 8/00                         | YES                       |                                |
| FY 2001<br>GE900<br>SATCC                              | 4        | 1100                  | SSC CHARLESTON     |                   | GSA/FFP                                 | LITTON DATA SYSTEMS<br>GAITHERSBURG, MD | 12/00         | 4/01                         | YES                       |                                |
| D. REMARKS                                             |          |                       |                    |                   |                                         |                                         |               |                              |                           |                                |

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SATCC FOR CV/CVNS TYPE MODIFICATION: ECP 1392 MODIFICATION TITLE: GE900

DESCRIPTION/JUSTIFICATION:  
 SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC) FOR LARGE DECK PLATFORMS

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | IC  |    | TOTAL |    |         |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|----|---------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$ |         |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    |         |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       |    |         |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| EQUIPMENT                           |                 |     |         |     |         |     |         | 4  | 4400.0  | 3  | 3400.0  | 2  | 2400.0  |    |         |    |         |    |     |    |       | 9  | 10200.0 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| DATA                                |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| OTHER                               |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| OTHER                               |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| OTHER                               |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |    |         |    |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0     |
| INSTALL COST                        |                 |     |         |     |         |     |         | 3  | 1483.0  | 4  | 1980.0  | 2  | 1286.0  |    |         |    |         |    |     |    |       | 9  | 4749.0  |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 0  | 5883.0  | 0  | 5380.0  | 0  | 3686.0  | 0  | 0.0     | 0  | 0.0     | 0  | 0.0 | 0  | 0.0   | 9  | 14949.0 |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SATCC FOR CV/CVNS MODIFICATION TITLE: GE900

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: AIT  
 ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: 5 months  
 CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: Dec-00  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: Apr-01

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |        | FY 2002 |        | FY 2003 |        | FY 2004 |    | FY 2005 |    | To Complete |    | Total |        |
|-------------------|-------------|----|---------|----|---------|----|---------|----|---------|--------|---------|--------|---------|--------|---------|----|---------|----|-------------|----|-------|--------|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$     | Qty     | \$     | Qty     | \$     | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$     |
| PRIOR YEARS       |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    | 0     | 0.0    |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    | 0     | 0.0    |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    | 0     | 0.0    |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    | 0     | 0.0    |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |    | 3       | 1483.0 | 1*      | 495.0  |         |        |         |    |         |    |             |    | 4     | 1978.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |    |         |        | 3       | 1485.0 |         |        |         |    |         |    |             |    | 3     | 1485.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |    |         |        |         |        | 2       | 1286.0 |         |    |         |    |             |    | 2     | 1286.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    | 0     | 0.0    |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    | 0     | 0.0    |
| TO COMPLETE       |             |    |         |    |         |    |         |    |         |        |         |        |         |        |         |    |         |    |             |    |       |        |

\* FY02 Includes \$495K for Trainer unit to be installed with non-FMP dollars.

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 2 | 1 | 1       | 1 | 2 | 0 | 0       | 0 | 2 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 9     |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 1 | 2 | 1       | 0 | 1 | 2 | 0       | 0 | 2 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 9     |

P-3A

CLASSIFICATION: UNCLASSIFIED

|                                                                                                                                                             |                                                      |                     |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------|---------------------|
| <b>P3A</b>                                                                                                                                                  | <b>INDIVIDUAL MODIFICATION</b>                       |                     |                     |
| MODELS OF SYSTEM AFFECTED:                                                                                                                                  | <u>IVN/ISDN for LHA 1-5,</u><br><u>AGF 3; LCC 20</u> | TYPE MODIFICATION:  | <u>SHIPALT 900K</u> |
|                                                                                                                                                             |                                                      | MODIFICATION TITLE: | <u>GE950</u>        |
| DESCRIPTION/JUSTIFICATION:                                                                                                                                  |                                                      |                     |                     |
| LHA INTEGRATED VOICE NETWORK(IVN) FOR THE LHA MIDLIFE UPGRADE AND INTEGRATED VOICE NETWORK SYSTEM FOR THE COMMAND AND CONTROL SHIP PROGRAM (AGF3 AND LCC20) |                                                      |                     |                     |

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |        | <u>FY 1998</u> |        | <u>FY 1999</u> |        | <u>FY 2000</u> |        | <u>FY 2001</u> |        | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>IC</u> |    | <u>TOTAL</u> |     |
|-------------------------------------|----------------------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|-----|
|                                     | QTY                        | \$     | QTY            | \$     | QTY            | \$     | QTY            | \$     | QTY            | \$     | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$  |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    |              |     |
| <u>RDT&amp;E</u>                    |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| <u>PROCUREMENT</u>                  |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    |              |     |
| INSTALLATION KITS                   |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| INSTALLATION KITS - UNIT COST       |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| INSTALLATION KITS NONRECURRING      |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| EQUIPMENT                           | 1                          | 2791.0 | 1              | 3206.0 | 2              | 5382.0 | 3              | 7455.0 |                |        |                |    |                |    |                |    |                | 2  | 5200.0    | 9  | 24034.0      |     |
| EQUIPMENT NONRECURRING              |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| ENGINEERING CHANGE ORDERS           |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| DATA                                |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| TRAINING EQUIPMENT                  |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| SUPPORT EQUIPMENT                   |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| OTHER                               |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| OTHER                               |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| OTHER                               |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                            |        |                |        |                |        |                |        |                |        |                |    |                |    |                |    |                |    |           |    | 0            | 0.0 |
| INSTALL COST                        |                            |        | 1              | 1102.0 | 1              | 1581.0 | 3              | 3467.0 | 2              | 1065.0 |                |    |                |    |                |    |                | 2  | 2400.0    | 9  | 9615.0       |     |
| TOTAL PROCUREMENT                   |                            | 2791.0 |                | 4308.0 |                | 6963.0 | #####          |        | 1065.0         |        | 0.0            |    | 0.0            |    | 0.0            |    | 0.0            |    | 7600.0    | 9  | 33649.0      |     |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: IVN/ISDN for LHA 1-5      MODIFICATION TITLE: GE950  
AGF3; LCC 20

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT      5 month (LCC/AGF Class)  
 ADMINISTRATIVE LEADTIME: N/A      5 month (LHA 1 Class)  
 PRODUCTION LEADTIME:  
 CONTRACT DATES: FY 1999: Jun-99      FY 2000: Mar-00      FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: Nov-99      FY 2000: Aug-00      FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |       | FY 1999 |        | FY 2000 |        | FY 2001 |       | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |        |
|-------------------|-------------|----|---------|-------|---------|--------|---------|--------|---------|-------|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|--------|
|                   | Qty         | \$ | Qty     | \$    | Qty     | \$     | Qty     | \$     | Qty     | \$    | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |        |
| PRIOR YEARS       |             |    | 1       | 940.0 |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 1  | 940.0  |
| FY 1998 EQUIPMENT |             |    |         | 162.0 | 1       | 1051.0 |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 1  | 1213.0 |
| FY 1999 EQUIPMENT |             |    |         |       |         | 153.0  | 1       | 847.0  | 1       | 524.0 |         |    |         |    |         |    |         |    |             |    |       | 2  | 1524.0 |
| FY 2000 EQUIPMENT |             |    |         |       |         | 377.0  | 2       | 2620.0 | 1       | 541.0 |         |    |         |    |         |    |         |    |             |    |       | 3  | 3538.0 |
| FY 2001 EQUIPMENT |             |    |         |       |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0    |
| FY 2002 EQUIPMENT |             |    |         |       |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0    |
| FY 2003 EQUIPMENT |             |    |         |       |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0    |
| FY 2004 EQUIPMENT |             |    |         |       |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0    |
| FY 2005 EQUIPMENT |             |    |         |       |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0    |
| TO COMPLETE       |             |    |         |       |         |        |         |        |         |       |         |    |         |    |         |    |         |    |             |    |       | 2  | 2400.0 |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |  | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|--|----|-------|
|     |                    | 1       | 2 | 3 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       |   |   |  |    |       |
| In  | 1                  | 0       | 0 | 0 | 0 | 1       | 1 | 0 | 1 | 1       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 2 | 9 |  |    |       |
| Out | 0                  | 0       | 0 | 1 | 0 | 0       | 1 | 0 | 2 | 1       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 2       | 9 |   |  |    |       |

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT**

P-1 ITEM NOMENCLATURE

POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF

Program Element for Code B Items:

Other Related Program Elements

|                              | Prior Years | ID Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | To Complete | Total   |
|------------------------------|-------------|---------|--|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| QUANTITY                     |             |         |  |         |         |         |         |         |         |         |             |         |
| COST<br>(In Millions)        |             |         |  | \$117.0 | \$114.4 | \$47.8  | \$63.8  | \$67.7  | \$45.8  | \$34.2  |             | \$490.7 |
| SPARES COST<br>(In Millions) |             |         |  |         |         |         |         |         |         |         |             |         |

PROGRAM DESCRIPTION/JUSTIFICATION:

POLLUTION CONTROL SYSTEMS/EQUIPMENT: This item provides funds for the procurement of pollution control systems and equipment that are required by Navy ships in order for them to comply with international regulations, federal laws, DOD Directives and Navy environment protection regulations. These regulations, laws and directives restrict the discharge of oily wastes, sewage, solid waste, plastic waste, medical waste and hazardous waste. Most of these applicable regulations require Navy ships to comply by fixed deadline dates. Failure to comply carries potential personal, civil, and criminal liability, and significantly imposes constraints on the operational capabilities of Navy ships. In some instances, the compliance schedule has required an acceleration of the normal schedules in the procurement process.

HF025 - METAL GLASS SHREDDER (MGS), LARGE PULPER (LP) AND SMALL PULPERS (SP) - These equipments will be installed on surface ships to reliably process shipboard non-plastic solid waste. This is a capability which does not currently exist. The pulpers are designed to pulp paper, cardboard and food waste into environmentally benign slurry to be discharged. The MGS is designed to shred metal and glass waste into sinkable form which is discharged. The Navy has developed the pulpers and MGS to eliminate the possibility of having Navy ships' waste fouling the marine environment and exposed beaches. The FY97 National Defense Authorization Act allows for the use of pulpers and shredders to achieve compliance with MARPOL special area discharge regulations and requires full surface ship compliance by 31 December 2000. The Secretary of the Navy submitted to Congress the Navy's Special-Area Compliance Plan in November, 1996. In this plan, the Navy committed to budget, procure and install solid waste pulpers and shredders on all warships the size of frigates and larger by 31 December, 2000. Milestone III Acquisition Decision Memorandum was signed in September 1996. The MGS and pulpers will be procured by best value competitive awareness. The RFP for this procurement was released in February 1997 with contact award planned in November 1997. The Pulpers and Shredders will be installed on existing ships by K ShipAlt backfit starting in August 1998. They will be forwarded-fitted on new ship construction where applicable. The Inventory Objective for MGS is 164 units, for LP is 137 and SP is 42. Total program cost for procurement and installation, including installation design, is \$255M.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT**

P-1 ITEM NOMENCLATURE

**POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF**

HF024 - CFC & HALON ELIMINATION PROGRAM - CFCs and Halons are two substances that have been implicated in the depletion of stratospheric ozone. Due to increased cancer rates resulting from ozone depletion, the production of CFC-based refrigerants (including CFC-11, CFC-12, and CFC-114) was prohibited after 31 DEC 95 by the Clean Air Act of 1990. Presidential Executive Order of 21 APR 93 calls for federal agencies to "maximize the use of safe alternatives to ozone-depleting substances". OPNAVINST 5909.1B dated 1 NOV 94 further requires the "reduction of the use and emission of (ozone-depleting substances) to the lowest achievable level". The Navy is currently dependent on CFC-based refrigerants for the mission-critical cooling of (1) vital electronics and weapon systems, (2) food and medical stowage, and (3) inhabited spaces aboard surface ships and submarines. To counter the immediate threat of production cessation on uninterrupted Fleet operations, DoD directed the Defense Logistics Agency to establish a stockpile of CFC-based refrigerants.

The stockpile is sized to support Fleet operations until the test CFC based systems are retired or converted to ozone-friendly refrigerants. In addition, the size of the stockpile was based on an assumed conversion schedule of shipboard air-conditioning and refrigeration systems. The CFC and Halon Elimination Team is now converting shipboard air-conditioning and refrigeration systems to ozone-friendly refrigerants. The CFC-12 conversion program, which will convert 1,038 systems, began in FY 94 and is expected to complete FY 03. To date, over 382 systems have been converted (37% of the total) and over 82 ships are "CFC-12 free". The CFC-114 program, which will convert approximately 583 systems, is expected to commence in FY 99 and complete in FY 08. The Team is also attempting to reduce overall shipboard consumption of refrigerants. Due to the dependence of shipboard, weapon, and support systems on refrigeration, an interruption in the conversion programs subjects the Navy to the risk of prematurely depleting the stockpile and, subsequently, significantly impairing Fleet operations. Total cost is approximately \$421.8M equipment and install. 221 CFC-12 AC Backfit units have been installed and 327 CFC-12 Reefer Backfit units have been installed.

**SHORE BASED POLLUTION EQUIPMENT - (N452)**

The Shorebased funds provide for equipment required to clean up Navy oil spills on the open sea as required by the Federal Waste Pollution Control Act - Public Law 92-500. The law created a National Oil and Hazardous Substance Pollution Contingency Plan, and designates the Department of Defense as one of the primary agencies responsible for promotion of effective operation of the plan. OPNAVINST 5090.1A and NAVSEAINST 4740.8A assign the Supervisor of Salvage the responsibility to provide technical expertise, resources, and equipment for cleaning Navy-originated spills of oil and other hazardous material in coastal waters or the open sea. Major items of procurement are:

HF040 Support Systems: These systems include those auxiliary systems required to keep the oil spill responders operating in the field. These systems include equipment required for command and control, communication, supply, personnel transfer craft, GPS asset tracking, repair, supply, offloading, deployment, demobilization, and other ancillary requirements of a spill response. Required I/O is 76.

HF042 Boom Tending Boats (Inflatable): Outboard powered inflatable boats 19' and 23' in length capable of operating in a wide variety of weather and sea conditions. These inflatable boats are better suited to open ocean operations than the rigid boats due to increased portability and operator safety. The boats are used for inspection and in-place maintenance of the moored boom systems and to provide for personnel and cargo transport throughout a spill response operations area. Required I/O is 22.

HF051 Oil Boom Systems: These systems consist of 2,000' of inflatable oil boom, or 750' of fireboom with protective hardware including all associated equipment required to store, inflate, deploy, recover, and repair the boom. The systems are packaged in 8' x 8' x 20' shipping containers. Required I/O is 52.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT**

P-1 ITEM NOMENCLATURE

**POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF**

HF054 Beach Transfer Systems: These systems consist of an all-terrain tractor with trailer and two all-terrain vehicles with support equipment packaged in an 8' x 8' x 20' shipping container. The system transports equipment and materials to otherwise inaccessible soft beach and mud areas of a spill response. Required I/O is 8.

HF055 Salvage Skimmer Systems: These systems are a collection of small, special-purpose skimmers, containment boom, transfer pumps, storage tanks, sorbents, and ancillary equipment intended as a stand-alone response package for small, salvage-released spills inside and adjacent to ships or inland locations, or special remote tankers offloading locations. Required I/O is 21.

HF056 Equipment Clean-up Systems: These systems provide for the extensive cleaning of equipment prior to demobilization at a response site. The system provides a full array of all tools and materials required for efficient cleaning and demobilization of response assets. Required I/O is 8.

HF057 Logistics Support Systems: Logistic Support Systems are used to assist in disposal of removed oil and debris. These systems are: vacuum systems, floating hose systems, oil bladder transfer system, debris handling system, bladder system, incinerator system, oil/water separator system, steam generator system, and material transfer system. Required I/O is 69.

HF059 Boom Mooring Systems (Deep Water Extension): This system is used to extend the depth in which the existing boom mooring systems can be used from 200' to 600' allowing use of diversionary boom in deep water applications. Required I/O is 64.

HF060 Hot Tap Systems: Designed to allow penetration into tanks below the waterline. The hot tap is a system that secures a device to the hull, cuts through shell plating and allows installation of a valve to permit pumping. Two types are required Diver Deployable for shallow work and ROV Deployable for deployment at depth. This allows lightening or removal of oil from a vessel without tank access above the waterline. Required I/O is 10.

HF061 Viscous Oil Transfer Systems: Oil that weathers, emulsifies, or mixed with other contaminants will become thick and viscous to the point that regular centrifugal pumping systems will not remove the oil. The viscous oil pumping system is a different type of pump with peripherals to allow the pumping of this type of oil. Required I/O is 28.

HF062 Submersible 6" Hydraulic Pumping Systems: This system allows the lightening of oil from tanks aboard ships whose transfer systems are inoperative. The size of the pump allows for insertion of the tanks from topside access hatches. Required I/O is 33.

HF063 Vessel of Opportunity (VOSS) Skimming Systems: The VOSS is a skimming system which can be used aboard any vessel with enough deck space to support the operating equipment. It allows skimming capability in locations where traditional skimmers may not be practicable, such as offshore or in extremely inclement weather. It may be a belt, disk, wire or rope mop type skimmer. Required I/O is 16.

HF058 Arctic Oil Recovery Systems: This system is designed to recover oil in an arctic environment where specific weather conditions render normal skimmer recovery methods useless. Required I/O is 6.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT**

P-1 ITEM NOMENCLATURE

**POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF**

HF065 Boarding Kits: This is designed to be placed aboard a vessel with no power or support services for personnel. It contains all the equipment necessary to support a team of salvors and pollution response personnel while working aboard a "dead" tanker. Required I/O is 10.

HF027 FOOD GRINDER/PULPER: SHIPALT 4102K installs a dedicated food grinder/pulper and sink in the SSN 688 Class galley/scullery. The food grinder/pulper will eliminate the use of plastic wet bags for grindable food wastes, improve the quality of life by alleviating handling and stowage of grindable food waste, and provide operational enhancements by reducing Trash Disposal Unit (TDU) operations. The Secretary of the Navy submitted to Congress the Navy's MARPOL Annex V Special Area, Solid Waste Management Plan in Dec 97. In this plan, the Navy committed to the use of food grinder/pulper exists on SSBN 726 Class submarines. SHIPALT 4102K will install food grinders/pulpers on forty-four existing SSN 688 Class submarines starting in FY 00 and ending in FY 04. The total cost is \$4.4M.

HF028 POLLUTION PREVENTION AFLOAT: The shipboard funds provide for the procurement and Fleetwide installation of pollution prevention equipment which will produce immediate life cycle cost savings to the Fleet through reduction in the quantity of hazardous material used aboard ship, offloaded, and subsequently disposed of by shore activities as hazardous waste. The reduction of used/excess hazardous material offloads will also assist shore activities in meeting pollution prevention and community right-to-know requirements under Executive Order 12856. The funds will enable the installation of suites of equipment tailored to individual ship classes. Installation of these suites of equipment will begin in FY 00 and end in FY 05. Required I/O is 171. Total program cost is \$28.8M.

HF830 - PRODUCTION ENGINEERING - The review and approval of any production contact technical document, or the separate development of this documentation to include Technical Manuals, PMS, Level III production drawings. Provisional Technical Documentation (PTD), Program Support Data (SPD), and Allowance Parts Lists (AL's); Engineering and support of final design reviews. This work can be accomplished by NSWC, PHILA and the in-service engineering agent, other Naval Activities or contractors as appropriate

HF064 Modular Barge Systems: This System creates a temporary storage capability for recovered oil. Oil can be transferred from skimmers as well as oil bladders to further transfer to shoreside facilities or large tank barge. Oil can also be transferred between oil bladders. The systems also allows for deck spaces upon which to set up other support systems or barge sections to incorporate future support systems. Required I/O is 4.

P-1 SHOPPING LIST

CLASSIFICATION:

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       |                              |         |                                    | Weapon System |                                                                               |            |          |           |            |          |           |            | DATE:<br>FEBRUARY 2000 |           |            |
|-------------------------------------------------------------------------------------------|------------------------------|---------|------------------------------------|---------------|-------------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------|------------------------|-----------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1: SHIPS SUPPORT EQUIPMENT |                              |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF |            |          |           |            |          |           |            |                        |           |            |
| COST CODE                                                                                 | ELEMENT OF COST              | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                               |            |          |           |            |          |           |            |                        |           |            |
|                                                                                           |                              |         | Prior Years                        | FY 1999       |                                                                               |            | FY 2000  |           |            | FY 2001  |           |            |                        |           |            |
|                                                                                           |                              |         | Total Cost                         | Quantity      | Unit Cost                                                                     | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity               | Unit Cost | Total Cost |
| HF830                                                                                     | PRODUCTION ENGINEERING       | A       |                                    |               |                                                                               |            |          |           | 2,130      |          |           | 139        |                        |           |            |
| HF025                                                                                     | PULPERS & SHREDDERS          | A       |                                    |               |                                                                               |            |          |           |            |          |           |            |                        |           |            |
|                                                                                           | METAL GLASS SHREDDERS        |         |                                    |               |                                                                               | 57         | 62.140   | 3,542     | 7          | 63.000   | 441       |            |                        |           |            |
|                                                                                           | LARGE PULPERS                |         |                                    |               |                                                                               | 50         | *        | 5,321     | 2          | 110.000  | 220       |            |                        |           |            |
|                                                                                           | SMALL PULPERS                |         |                                    |               |                                                                               | 16         | *        | 1,267     | 5          | 80.000   | 400       |            |                        |           |            |
|                                                                                           | SUBTOTAL SOLID-WASTE         |         |                                    |               |                                                                               | 123        |          | 12,260    |            |          | 1,200     |            |                        |           |            |
|                                                                                           | NON-SOLID WASTE              |         |                                    |               |                                                                               |            |          |           |            |          |           |            |                        |           |            |
| HF024                                                                                     | CFC-12 (R-12) AC BACKFIT     | A       |                                    |               |                                                                               |            |          |           |            |          |           |            | 12                     | 39.000    | 468        |
| HF024                                                                                     | CFC-12 (R-12) REEFER BACKGIT | A       |                                    |               |                                                                               | 6          | 18.170   | 109       |            |          |           |            | 50                     | 51.660    | 2,583      |
| HF024                                                                                     | CFC-114 (R-114) AC BACKFIT   | A       |                                    |               |                                                                               | 17         | 262.200  | 4,457     | 8          | 275.000  | 2,200     | 52         | 312.700                | 16,261    |            |
| HF027                                                                                     | FOOD GRINDER/PULPERS         | A       |                                    |               |                                                                               |            |          |           |            |          |           |            | 11                     | 5.000     | 55         |
| HF028                                                                                     | POLLUTION PREVENTION AFLOAT  | A       |                                    |               |                                                                               |            |          |           |            | 20       | 115.150   | 2,303      | 20                     | 124.200   | 2,484      |
| HF830                                                                                     | PRODUCTION ENGINEERING       | A       |                                    |               |                                                                               |            |          | 1,105     |            |          | 1,044     |            |                        |           | 3,148      |
|                                                                                           |                              |         |                                    |               |                                                                               | 0          |          | 17,931    |            |          | 6,747     |            |                        |           | 24,999     |

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|------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|
| <b>WEAPONS SYSTEM COST ANALYSIS</b><br>P-5                                                           | Weapon System | DATE:<br><b>FEBRUARY 2000</b>                                                        |
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br><b>OPN BA-1: SHIPS SUPPORT EQUIPMENT</b> | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF</b> |

| COST CODE | ELEMENT OF COST              | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |            |          |           |            |          |           |            |     |       |  |
|-----------|------------------------------|---------|------------------------------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|-----|-------|--|
|           |                              |         | Prior Years                        | FY 1999  |           |            | FY 2000  |           |            | FY 2001  |           |            |     |       |  |
|           |                              |         | Total Cost                         | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost |     |       |  |
|           | <b>B. SHOREBASED-(N452)</b>  |         |                                    |          |           |            |          |           |            |          |           |            |     |       |  |
| HF040     | Support Systems              | A       |                                    |          |           | 2          | 89       | 178       | 2          | 90       | 180       | 3          | 92  | 276   |  |
| HF042     | Boom Tend Boats (Inflatable) | A       |                                    |          |           | 2          | 96       | 192       |            |          |           | 1          | 98  | 98    |  |
| HF051     | Oil Boom Systems             | A       |                                    |          |           | 3          | 245      | 736       | 5          | 245      | 1,225     | 5          | 248 | 1,240 |  |
| HF054     | Beach Transfer System        | A       |                                    |          |           | 2          | 68       | 136       |            |          |           |            |     |       |  |
| HF055     | Salvage Skimmer Systems      | A       |                                    |          |           | 2          | 100      | 200       | 2          | 106      | 212       |            |     |       |  |
| HF056     | Equipment Clean-up Systems   | A       |                                    |          |           |            |          |           |            |          |           | 1          | 97  | 97    |  |
| HF057     | Logistics Support Systems    | A       |                                    |          |           | 3          | 176      | 528       | 2          | 178      | 356       | 3          | 182 | 546   |  |
| HF058     | Arctic Oil Recovery Systems  | A       |                                    |          |           |            |          |           | 1          | 375      | 375       |            |     |       |  |
| HF059     | Boom Mooring Systems         | A       |                                    |          |           | 16         | 11       | 176       |            |          |           | 2          | 11  | 22    |  |
| HF060     | Hot Tap Systems              | A       |                                    |          |           |            |          |           |            |          |           |            |     |       |  |
| HF061     | Viscous Oil Transfer Systems | A       |                                    |          |           |            |          |           | 3          | 106      | 318       | 1          | 107 | 107   |  |
| HF062     | Submersible 6" Hyd Pump Sys  | A       |                                    |          |           |            |          |           | 2          | 76       | 152       | 1          | 77  | 77    |  |
| HF064     | Modular Barge Systems        | A       |                                    |          |           | 1          | 619      | 619       |            |          |           |            |     |       |  |
| HF065     | Boarding Kits                | A       |                                    |          |           |            |          |           |            |          |           | 2          | 47  | 94    |  |
|           |                              |         |                                    |          |           |            |          | 2,765     |            |          | 2,818     |            |     | 2,557 |  |

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CLASSIFICATION:

|                                                                                                         |  |  |  |               |  |                                                                                      |  |                               |  |  |  |
|---------------------------------------------------------------------------------------------------------|--|--|--|---------------|--|--------------------------------------------------------------------------------------|--|-------------------------------|--|--|--|
| <b>WEAPONS SYSTEM COST ANALYSIS</b><br>P-5                                                              |  |  |  | Weapon System |  |                                                                                      |  | DATE:<br><b>FEBRUARY 2000</b> |  |  |  |
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b><br><b>BA-1: SHIPS SUPPORT EQUIPMENT</b> |  |  |  | ID Code       |  | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF</b> |  |                               |  |  |  |

| COST CODE | ELEMENT OF COST              | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |            |          |                |            |          |           |                |          |           |               |
|-----------|------------------------------|---------|------------------------------------|----------|-----------|------------|----------|----------------|------------|----------|-----------|----------------|----------|-----------|---------------|
|           |                              |         | Prior Years                        |          |           | FY 1999    |          |                | FY 2000    |          |           | FY 2001        |          |           |               |
|           |                              |         | Total Cost                         | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost      | Total Cost | Quantity | Unit Cost | Total Cost     | Quantity | Unit Cost | Total Cost    |
|           | <b>SUBTOTAL 00C</b>          |         |                                    |          |           |            |          | <b>2,765</b>   |            |          |           | <b>2,818</b>   |          |           | <b>2,557</b>  |
|           | <b>SUBTOTAL O3L</b>          |         |                                    |          |           |            |          | <b>17,931</b>  |            |          |           | <b>6,747</b>   |          |           | <b>24,999</b> |
|           | <b>GRAND TOTAL EQUIPMENT</b> |         |                                    |          |           |            |          | <b>20,696</b>  |            |          |           | <b>9,565</b>   |          |           | <b>27,556</b> |
|           | <u>INSTALL</u>               |         |                                    |          |           |            |          |                |            |          |           |                |          |           |               |
|           | N85 Expeditionary Warfare    |         |                                    |          |           |            |          | <b>31,228</b>  |            |          |           | <b>27,388</b>  |          |           | <b>7,713</b>  |
|           | N42 Auxiliary Warfare        |         |                                    |          |           |            |          | <b>3,299</b>   |            |          |           | <b>3,233</b>   |          |           | <b>0</b>      |
|           | N86 Surface Warfare          |         |                                    |          |           |            |          | <b>47,771</b>  |            |          |           | <b>58,718</b>  |          |           | <b>2,684</b>  |
|           | N87 Submarine Warfare        |         |                                    |          |           |            |          | <b>2,390</b>   |            |          |           | <b>2,018</b>   |          |           | <b>4,976</b>  |
|           | N88 Air Warfare              |         |                                    |          |           |            |          | <b>11,658</b>  |            |          |           | <b>12,260</b>  |          |           | <b>2,019</b>  |
|           | N45 Environmental Compliance |         |                                    |          |           |            |          | <b>0</b>       |            |          |           | <b>1,183</b>   |          |           | <b>2,857</b>  |
|           | <b>GRAND TOTAL INSTALL</b>   |         |                                    |          |           |            |          | <b>96,346</b>  |            |          |           | <b>104,800</b> |          |           | <b>20,249</b> |
|           |                              |         |                                    |          |           |            |          | <b>117,042</b> |            |          |           | <b>114,365</b> |          |           | <b>47,805</b> |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       |                              |          |           | Weapon System |          |                                                                               |            |          |           |            |          |           |            | DATE: Feb-00 |      |          |      |
|-------------------------------------------------------------------------------------------|------------------------------|----------|-----------|---------------|----------|-------------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------|--------------|------|----------|------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1: SHIPS SUPPORT EQUIPMENT |                              |          |           | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD<br>POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF |            |          |           |            |          |           |            |              |      |          |      |
| COST CODE                                                                                 | ELEMENT OF COST              | FY 2002  |           |               | FY 2003  |                                                                               |            | FY 2004  |           |            | FY 2005  |           |            | To Complete  |      | Total    |      |
|                                                                                           |                              | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost                                                                     | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity     | Cost | Quantity | Cost |
|                                                                                           | <u>NON-SOLID WASTE</u>       |          |           |               |          |                                                                               |            |          |           |            |          |           |            |              |      |          |      |
| HF024                                                                                     | CFC-114 (R-114) A/C BACKFIT  | 67       | 313.149   | 20981         | 67       | 321.358                                                                       | 21,531     | 56       | 304.339   | 17,043     | 31       | 326.903   | 10,134     |              |      |          |      |
| HF024                                                                                     | CFC-12 (R-12) AC BACKFIT     | 28       | 38.786    | 1086          |          |                                                                               |            |          |           |            |          |           |            |              |      |          |      |
| HF024                                                                                     | CFC-12 (R-12) REFER BACKFIT  | 90       | 43.156    | 3884          | 10       | 64.500                                                                        | 645        |          |           |            |          |           |            |              |      |          |      |
| HF027                                                                                     | FOOD GRINDER/PULPER          | 5        | 5.000     | 25            | 5        | 5.000                                                                         | 25         |          |           |            |          |           |            |              |      |          |      |
| HF028                                                                                     | POLLUTION PREVENTION AFL     | 26       | 113.846   | 2960          | 30       | 118.533                                                                       | 3,556      | 21       | 116.381   | 2,444      | 14       | 105.571   | 1,478      |              |      |          |      |
| HF830                                                                                     | PRODUCTION ENGINEERING       |          |           | 3225          |          |                                                                               | 3,895      |          |           | 1,969      |          |           | 1,292      |              |      |          |      |
|                                                                                           | SUBTOTAL SEA 03L             |          |           | 32,161        |          |                                                                               | 29,652     |          |           | 21,456     |          |           | 12,904     |              |      |          |      |
|                                                                                           | SUBTOTAL SEA 00C             |          |           | 2470          |          |                                                                               | 2,621      |          |           | 2,668      |          |           | 2,915      |              |      |          |      |
|                                                                                           | <u>GRAND TOTAL EQUIPMENT</u> |          |           | 34,631        |          |                                                                               | 32,273     |          |           | 24,124     |          |           | 15,819     |              |      |          |      |
|                                                                                           | <u>INSTALL</u>               |          |           |               |          |                                                                               |            |          |           |            |          |           |            |              |      |          |      |
|                                                                                           | N85 EXPENDITORY WARFARE      |          |           | 5,053         |          |                                                                               | 8,539      |          |           | 5,884      |          |           | 2,743      |              |      |          |      |
|                                                                                           | N42 AUXILIARY WARFARE        |          |           | 538           |          |                                                                               | 1,050      |          |           | 0          |          |           | 0          |              |      |          |      |
|                                                                                           | N86 SURFACE WARFARE          |          |           | 4,430         |          |                                                                               | 7,044      |          |           | 5,870      |          |           | 6,056      |              |      |          |      |
|                                                                                           | N87 SUBMARINE WARFARE        |          |           | 3,465         |          |                                                                               | 4,136      |          |           | 851        |          |           | 0          |              |      |          |      |
|                                                                                           | N88 AIR WARFARE              |          |           | 12,415        |          |                                                                               | 10,826     |          |           | 6,398      |          |           | 7,995      |              |      |          |      |
|                                                                                           | N45 ENVIRONMENTAL COMPLIANCE |          |           | 3,279         |          |                                                                               | 3,828      |          |           | 2,638      |          |           | 1,542      |              |      |          |      |
|                                                                                           | <u>GRAND TOTAL INSTALL</u>   |          |           | 29,180        |          |                                                                               | 35,423     |          |           | 21,641     |          |           | 18,336     |              |      |          |      |
|                                                                                           |                              |          |           | 63,811        |          |                                                                               | 67,696     |          |           | 45,765     |          |           | 34,155     |              | 0    |          | 0    |

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

|                                                                                           |               |                                                                               |
|-------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------|
| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       | Weapon System | DATE: Feb-00                                                                  |
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1: SHIPS SUPPORT EQUIPMENT | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF |

| COST CODE | ELEMENT OF COST                     | FY 2002                       |           | FY 2003    |          |           | FY 2004    |          |           | FY 2005    |          |           | To Complete |          | Total |          |      |
|-----------|-------------------------------------|-------------------------------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|-------------|----------|-------|----------|------|
|           |                                     | Quantity                      | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost  | Quantity | Cost  | Quantity | Cost |
|           |                                     | <b>B. SHOREBASED - (N452)</b> |           |            |          |           |            |          |           |            |          |           |             |          |       |          |      |
| HF040     | Support Systems                     | 2                             | 94        | 188        | 4        | 96.25     | 385        | 3        | 99        | 297        | 3        | 102       | 306         |          |       |          |      |
| HF042     | Boom Tend Boats (Inflatable)        |                               |           |            | 3        | 100       | 300        |          |           |            |          |           |             |          |       |          |      |
| HF051     | Oil Boom Systems                    | 4                             | 252       | 1008       | 4        | 253       | 1,012      | 4        | 264       | 1,056      | 5        | 272       | 1,360       |          |       |          |      |
| HF054     | Beach Transfer Systems              | 2                             | 71        | 142        |          |           |            |          |           |            | 1        | 80        | 80          |          |       |          |      |
| HF055     | Salvage Skimmer Systems             |                               |           |            | 1        | 108       | 108        | 2        | 111.5     | 223        | 1        | 115       | 115         |          |       |          |      |
| HF056     | Equipment Clean-up Systems          |                               |           |            | 1        | 100       | 100        |          |           |            |          |           |             |          |       |          |      |
| HF057     | Logistics Support Systems           | 2                             | 185       | 370        | 3        | 186.6     | 560        | 2        | 194       | 388        | 2        | 199       | 398         |          |       |          |      |
| HF059     | Boom Mooring Systems                | 3                             | 12        | 36         |          |           |            |          |           |            |          |           |             |          |       |          |      |
| HF061     | Viscous Oil Transfer Systems        | 1                             | 112       | 112        |          |           |            |          |           |            |          |           |             |          |       |          |      |
| HF062     | Submersible 5" Hyd Pump Sys         |                               |           |            | 2        | 78        | 156        |          |           |            |          |           |             |          |       |          |      |
| HF063     | VOSS skimmer Systems                | 2                             | 307       | 614        |          |           |            |          |           |            | 2        | 328       | 656         |          |       |          |      |
| HF064     | Modular Barge Systems               |                               |           |            |          |           |            | 1        | 704       | 704        |          |           |             |          |       |          |      |
|           | <b>N45 ENVIRONMENTAL COMPLIANCE</b> |                               |           |            |          |           |            |          |           |            |          |           |             |          |       |          |      |
|           |                                     |                               |           | 2,470      |          |           | 2,621      |          |           | 2,668      |          |           | 2,915       |          | 0     |          | 0    |

# UNCLASSIFIED

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                       |          |                       |                    |                   | Weapon System                                                       |                            |               | A. DATE<br>FEBRUARY 2000     |                           |                                |  |
|----------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|---------------------------------------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: SHIPS SUPPORT EQUIPMENT |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br>POLLUTION CONTROL EQUIPMENT BLI: (0935) |                            |               |                              |                           | SUBHEAD<br>81HF                |  |
| Cost Element/<br>FISCAL YEAR                                                                 | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                        | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |  |
| FY 99<br>(HF024)                                                                             |          |                       |                    |                   |                                                                     |                            |               |                              |                           |                                |  |
| CFC 12 REEFER (1)                                                                            | 6        | 18,170                | NSWC PHILA, PA     |                   | WR                                                                  | NSWC PHILA                 | FEB 99        | APR 99                       | YES                       |                                |  |
| CFC 114 AC BACKFIT (1)                                                                       | 17       | 262,200               | NAVSEA             |                   | FFP/OPT                                                             | YORK, INTL                 | DEC 98        | SEP 99                       | YES                       |                                |  |
| (HF025)                                                                                      |          |                       |                    |                   |                                                                     |                            |               |                              |                           |                                |  |
| LARGE PULPER                                                                                 | 31       | 109,858               | NAVSEA             |                   | C/FP/OPT                                                            | UNIV TECH, TN              | APR 99        | OCT 99                       | YES                       |                                |  |
|                                                                                              | 19       | 100,811               | NAVSEA             |                   | C/FP/OPT                                                            | FEEQ ENG LAB               | APR 99        | OCT 99                       | YES                       |                                |  |
| SMALL PULPER                                                                                 | 8        | 81,608                | NAVSEA             |                   | C/FP/OPT                                                            | UNIV TECH, TN              | APR 99        | OCT 99                       | YES                       |                                |  |
|                                                                                              | 8        | 76,742                | NAVSEA             |                   | C/FP/OPT                                                            | FEEQ ENG LAB               | APR 99        | OCT 99                       | YES                       |                                |  |
| METAL GLASS SHREDDER                                                                         | 57       | 62,140                | NAVSEA             |                   | C/FP/OPT                                                            | FREQ ENG LAB               | APR 99        | OCT 99                       | YES                       |                                |  |
| D. REMARKS                                                                                   |          |                       |                    |                   |                                                                     |                            |               |                              |                           |                                |  |
| (1) UNIT PRICE OF CONVERSION KITS VARIES WITH SHIP CLASS                                     |          |                       |                    |                   |                                                                     |                            |               |                              |                           |                                |  |

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                               |          |                       |                    |                   | Weapon System                                                              |                            |               | A. DATE<br><b>FEBRUARY 2000</b> |                           |                                |  |
|------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|----------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA 1: SHIPS SUPPORT EQUIPMENT</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>POLLUTION CONTROL EQUIPMENT BLI: (0935)</b> |                            |               |                                 |                           | SUBHEAD<br><b>81HF</b>         |  |
| Cost Element/<br>FISCAL YEAR                                                                         | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                               | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |  |
| <b>FISCAL YEAR (99)</b>                                                                              |          |                       |                    |                   |                                                                            |                            |               |                                 |                           |                                |  |
| HF040 Support Systems                                                                                | 2        | 89                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 09/99                           | YES                       |                                |  |
| HF042 Boom Tend Boats<br>(Inflat)                                                                    | 2        | 96                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 08/99                           | YES                       |                                |  |
| HF051 Oil Boom Systems                                                                               | 3        | 245                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 09/99                           | YES                       |                                |  |
| HF054 Beach Trans Sys                                                                                | 2        | 68                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 07/99                           | YES                       |                                |  |
| HF055 Salv Skimmer Sys                                                                               | 2        | 100                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 09/99                           | YES                       |                                |  |
| HF057 Logistics Spt Sys                                                                              | 3        | 176                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 08/99                           | YES                       |                                |  |
| HF059 Boom Mooring Sys                                                                               | 16       | 11                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 03/99                           | YES                       |                                |  |
| <br>                                                                                                 |          |                       |                    |                   |                                                                            |                            |               |                                 |                           |                                |  |
| HF064 Modular Barge Sys                                                                              | 1        | 619                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                                                     | GPC -NORFOLK               | 02/99         | 07/99                           | YES                       |                                |  |
| <b>D. REMARKS</b>                                                                                    |          |                       |                    |                   |                                                                            |                            |               |                                 |                           |                                |  |

CLASSIFICATION:

**UNCLASSIFIED**

|                                                               |                      |                                        |
|---------------------------------------------------------------|----------------------|----------------------------------------|
| <b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b> | <b>Weapon System</b> | <b>A. DATE</b><br><b>FEBRUARY 2000</b> |
|---------------------------------------------------------------|----------------------|----------------------------------------|

|                                                                                                                   |                                                                                   |                               |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------|
| <b>B. APPROPRIATION/BUDGET ACTIVITY</b><br><b>Other Procurement, Navy</b><br><b>BA 1: SHIPS SUPPORT EQUIPMENT</b> | <b>C. P-1 ITEM NOMENCLATURE</b><br><b>POLLUTION CONTROL EQUIPMENT BLI: (0935)</b> | <b>SUBHEAD</b><br><b>81HF</b> |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------|

| Cost Element/<br>FISCAL YEAR                  | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
|-----------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| <u>FY 00</u>                                  |          |                       |                    |                   |                              |                            |               |                              |                           |                                |
| (HF024)<br>CFC 114 AC BACKFIT (1)             | 8        | 275,000               | NAVSEA             |                   | FFP                          | UNKNOWN                    | DEC 99        | SEP 01                       | YES                       |                                |
| (HF028)<br>POLLUTION PREVENTION<br>AFLOAT(1)  | 20       | 115,150               | NAVSEA             |                   | FFP                          | UNKNOWN                    | MAR 00        | JUN 00                       | YES                       |                                |
| (HF025)<br>LARGE PULPER                       | 2        | 110,000               | NAVSEA             |                   | RCP                          | UNKNOWN                    | MAR 00        | JUN 00                       | YES                       |                                |
| SMALL PULPER                                  | 5        | 80,000                | NAVSEA             |                   | RCP                          | UNKNOWN                    | MAR 00        | JUN 00                       | YES                       |                                |
| MGS                                           | 7        | 63,000                | NAVSEA             |                   | RCP                          | UNKNOWN                    | MAR 00        | JUN 00                       | YES                       |                                |
| <u>FY 01</u>                                  |          |                       |                    |                   |                              |                            |               |                              |                           |                                |
| (HF024)<br>CFC 12 REEFER (1)                  | 50       | 51,660                | NSWC PHILA, PA     |                   | RCP                          | UNKNOWN                    | FEB 01        | APR 01                       | YES                       |                                |
| CFC 114 AC BACKFIT (1)                        | 52       | 312,700               | NAVSEA             |                   | FFP                          | UNKNOWN                    | DEC 00        | SEP 01                       | YES                       |                                |
| (HF027)<br>FOOD GRINDER/PULPER                | 11       | 5,000                 | NAVSEA             |                   | FFP                          | UNKNOWN                    | DEC 00        | MAR 01                       | YES                       |                                |
| (HF028)<br>POLLUTION PREVENTION<br>AFLOAT (1) | 20       | 124,200               | NAVSEA             |                   | FFP                          | UNKNOWN                    | NOV 00        | NOV 01                       | YES                       |                                |
| CFC 12 A/C (1)                                | 12       | 39,000                | NSWC PHILA, PA     |                   | RCP                          | UNKNOWN                    | FEB 01        | APR 01                       | YES                       |                                |

|                                                                                   |
|-----------------------------------------------------------------------------------|
| <b>D. REMARKS</b><br><br>(1) UNIT PRICE OF CONVERSION KITS VARIES WITH SHIP CLASS |
|-----------------------------------------------------------------------------------|

CLASSIFICATION:

**UNCLASSIFIED**

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) |          |                       |                    |                   | Weapon System                           |                            |               | A. DATE                      |                           |                                |
|--------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE                |                            |               |                              | SUBHEAD                   |                                |
| Other Procurement, Navy                                |          |                       |                    |                   | POLLUTION CONTROL EQUIPMENT BLI: (0935) |                            |               |                              | 81HF                      |                                |
| BA 1: SHIPS SUPPORT EQUIPMENT                          |          |                       |                    |                   |                                         |                            |               |                              |                           |                                |
| Cost Element/<br>FISCAL YEAR                           | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE            | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (00)                                       |          |                       |                    |                   |                                         |                            |               |                              |                           |                                |
| HF040 Support Systems                                  | 2        | 90                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 09/00                        | YES                       |                                |
| HF051 Oil Boom Systems                                 | 5        | 245                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 08/00                        | YES                       |                                |
| HF055 Salv Skimmer Sys                                 | 2        | 106                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 10/00                        | YES                       |                                |
| HF057 Logistics Spt Sys                                | 2        | 178                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 09/00                        | YES                       |                                |
| HF058 Actic Oil Recvy Sys                              | 1        | 375                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 03/00                        | YES                       |                                |
| HF061 Viscous Oil Transfer<br>Sys                      | 3        | 106                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 09/00                        | YES                       |                                |
| HF062 Sub 6" Hyd Pump<br>Sys                           | 2        | 76                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/00         | 08/00                        | YES                       |                                |
| FISCAL YEAR (01)                                       |          |                       |                    |                   |                                         |                            |               |                              |                           |                                |
| HF040 Support Systems                                  | 3        | 92                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 09/01                        | YES                       |                                |
| HF042 Boom Tend Boats                                  | 1        | 98                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 08/01                        | YES                       |                                |
| HF051 Oil Boom Systems                                 | 5        | 248                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 08/01                        | YES                       |                                |
| HF056 Equip Cin-up Sys                                 | 1        | 97                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 01/01                        | YES                       |                                |
| HF057 Logistics Spt Sys                                | 3        | 182                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 09/01                        | YES                       |                                |
| HF059 Boom Mooring Sys                                 | 2        | 11                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 04/01                        | YES                       |                                |
| HF061 Viscous Oil Trans<br>Sys                         | 1        | 107                   | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 08/01                        | YES                       |                                |
| HF062 Sub 6" Hyd Pump<br>Sys                           | 1        | 77                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 09/01                        | YES                       |                                |
| HF065 Boarding Kits                                    | 2        | 47                    | NAVSEA             | 11/15/93 (OPTION) | C/CPAF                                  | UNKNOWN                    | 02/01         | 07/01                        | YES                       |                                |
| D. REMARKS                                             |          |                       |                    |                   |                                         |                            |               |                              |                           |                                |

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: PLASTIC WASTE PROCESSOR TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Process Food, contaminated waste and other Plastic Waste into compact/sanitary block for storage.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                       | <u>FY 1997 &amp; Prior</u> |           | <u>FY 1998</u> |           | <u>FY 1999</u> |           | <u>FY 2000</u> |           | <u>FY 2001</u> |           | <u>FY 2002</u> |           | <u>FY 2003</u> |           | <u>FY 2004</u> |           | <u>FY 2005</u> |           | <u>TC</u>  |           | <u>TOTAL</u> |           |  |
|---------------------------------------|----------------------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|------------|-----------|--------------|-----------|--|
|                                       | <u>QTY</u>                 | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u>     | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u>   | <u>\$</u> |  |
| <b>FINANCIAL PLAN (IN MILLIONS)</b>   |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <i><b>RDT&amp;E</b></i>               |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <i><b>PROCUREMENT</b></i>             |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>INSTALLATION KITS</b>              |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>INSTALLATION KITS - UNIT COST</b>  |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>INSTALLATION KITS NONRECURRING</b> |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>EQUIPMENT</b>                      | 166                        | 58.2      |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           | 245          | 58.2      |  |
| <b>EQUIPMENT NONRECURRING</b>         |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>ENGINEERING CHANGE ORDERS</b>      |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>DATA</b>                           |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>TRAINING EQUIPMENT</b>             |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>SUPPORT EQUIPMENT</b>              |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>OTHER</b>                          |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>OTHER</b>                          |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>OTHER</b>                          |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>INTERIM CONTRACTOR SUPPORT</b>     |                            |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              |           |  |
| <b>INSTALL COST</b>                   | 166                        | 136.1     | 68             | 31.3      | 1              | 1.7       |                |           |                |           |                |           |                |           |                |           |                |           |            |           | 235          | 169.1     |  |
| <b>TOTAL PROCUREMENT</b>              |                            | 194.3     |                | 31.3      |                | 1.7       |                |           |                |           |                |           |                |           |                |           |                |           |            |           |              | 227.3     |  |

\* 10 UNITS CONTRACTED PRIOR TO DECOMMISSIONING DECISIONS



P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SEWAGE PUMP/GREYWATER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT  
 (200 GPM)

DESCRIPTION/JUSTIFICATION:  
 Collect Greywater Waste from showers, laundry and discharge it to pierside sewage facilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | TC  |    | TOTAL |      |  |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|------|--|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$   |  |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| <i>RDT&amp;E</i>                    |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| <i>PROCUREMENT</i>                  |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| EQUIPMENT                           | 8               | 0.9 | 2       | 0.2 |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    | 10    | 1.1  |  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |      |  |
| INSTALL COST                        | 2               | 3.5 | 2       | 2.6 | 2       | 2.9 | 2       | 3.5 | 2       | 3.0 |         |    |         |    |         |    |         |    |     |    | 10    | 15.5 |  |
| TOTAL PROCUREMENT                   |                 | 4.4 |         | 2.8 |         | 2.9 |         | 3.5 |         | 3.0 |         |    |         |    |         |    |         |    |     |    |       | 16.6 |  |



P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: OIL CONTENT MONITOR TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Monitor Oil Content of Oil/Water Separator Effluent

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |     | <u>FY 1999</u> |    | <u>FY 2000</u> |     | <u>FY 2001</u> |    | <u>FY 2002</u> |     | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |     |      |
|-------------------------------------|----------------------------|-----|----------------|-----|----------------|----|----------------|-----|----------------|----|----------------|-----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|-----|------|
|                                     | QTY                        | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$  | QTY            | \$ | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$  |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| <i>RDT&amp;E</i>                    |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| <i>PROCUREMENT</i>                  |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| INSTALLATION KITS                   |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| INSTALLATION KITS - UNIT COST       |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| INSTALLATION KITS NONRECURRING      |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| EQUIPMENT                           | 153                        | 0.8 |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              | 153 | 0.8  |
| EQUIPMENT NONRECURRING              |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| ENGINEERING CHANGE ORDERS           |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| DATA                                |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| TRAINING EQUIPMENT                  |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| SUPPORT EQUIPMENT                   |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| OTHER                               |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| OTHER                               |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| OTHER                               |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |     |                |    |                |     |                |    |                |     |                |    |                |    |                |    |           |    |              |     |      |
| INSTALL COST                        | 109                        | 7.3 | 12             | 1.1 |                |    | 24             | 1.4 |                |    | 3              | 0.3 |                |    |                |    |                |    |           |    |              | 148 | 10.1 |
| TOTAL PROCUREMENT                   |                            | 8.1 |                | 1.1 |                |    |                | 1.4 |                |    |                | 0.3 |                |    |                |    |                |    |           |    |              |     | 10.9 |

\* 5 UNITS CONTRACTED PRIOR TO DECOMMISSIONING DECISIONS

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: Oil Content Monitor      MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT/SHIPYARD

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:    FY 1999: \_\_\_\_\_      FY 2000: \_\_\_\_\_      FY 2001: \_\_\_\_\_

DELIVERY DATE:    FY 1999: \_\_\_\_\_      FY 2000: \_\_\_\_\_      FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |     | FY 1999 |    | FY 2000 |     | FY 2001 |    | FY 2002 |     | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |      |
|-------------------|-------------|-----|---------|-----|---------|----|---------|-----|---------|----|---------|-----|---------|----|---------|----|---------|----|-------------|----|-------|------|
|                   | Qty         | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$   |
| PRIOR YEARS       | 109         | 7.3 | 12      | 1.1 |         |    | 24      | 1.4 |         |    | 3       | 0.3 |         |    |         |    |         |    |             |    | 148   | 10.1 |
| FY 1998 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 1999 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 2000 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 2001 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 2002 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 2003 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 2004 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| FY 2005 EQUIPMENT |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |
| TO COMPLETE       |             |     |         |     |         |    |         |     |         |    |         |     |         |    |         |    |         |    |             |    |       |      |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |    |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|----|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2  | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 121     | 0       | 0 | 0 | 0 | 2       | 10 | 7 | 5 | 0       | 0 | 0 | 0 | 0       | 2 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 148   |
| Out | 121     | 0       | 0 | 0 | 0 | 2       | 10 | 7 | 5 | 0       | 0 | 0 | 0 | 0       | 2 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 148   |

P3A

MODELS OF SYSTEM AFFECTED: CFC-12 AC BACKFIT TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & PRIOR |      | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2005 |    | TC  |     | TOTAL |      |      |
|-------------------------------------|-----------------|------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|-----|-----|-------|------|------|
|                                     | QTY             | \$   | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY | \$  | QTY   | \$   |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| <u>RDT&amp;E</u>                    |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| <u>PROCUREMENT</u>                  |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| INSTALLATION KITS                   |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| INSTALLATION KITS - UNIT COST       |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| INSTALLATION KITS NONRECURRING      |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| EQUIPMENT                           | 250             | 9.9  | 9       | 0.2 | 0       | 0.0 | 0       | 0.0 | 12      | 0.5 | 28      | 1.1 |         |     |         |    | 19  | 0.8 | 318   | 12.5 |      |
| EQUIPMENT NONRECURRING              |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| ENGINEERING CHANGE ORDERS           |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| DATA                                |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| TRAINING EQUIPMENT                  |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| SUPPORT EQUIPMENT                   |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| OTHER                               |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| OTHER                               |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| OTHER                               |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| INTERIM CONTRACTOR SUPPORT          |                 |      |         |     |         |     |         |     |         |     |         |     |         |     |         |    |     |     |       |      |      |
| INSTALL COST                        | 190             | 7.7  | 31      | 1.7 |         |     |         |     | 12      | 0.8 | 11      | 0.8 | 30      | 1.8 |         |    | 34  | 2.4 | 308   | 15.2 |      |
| TOTAL PROCUREMENT                   |                 | 17.6 |         | 1.9 |         |     |         |     |         | 1.3 |         | 1.9 |         | 1.8 |         |    |     | 3.2 |       |      | 27.7 |

\* 10 UNITS CONTRACTED PRIOR TO DECOMMISSIONING DECISIONS

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CFC12 AC BACKFIT MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 9 Months

PRODUCTION LEADTIME: \_\_\_\_\_ Months

CONTRACT DATES: FY 1999: \_\_\_\_\_

FY 2000: \_\_\_\_\_ FY 2001: Feb-01

DELIVERY DATE: FY 1999: \_\_\_\_\_

FY 2000: \_\_\_\_\_ FY 2001: APR 01

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |     | FY 1999 |    | FY 2000 |    | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |     |
|-------------------|-------------|-----|---------|-----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|-------------|----|-------|-----|-----|
|                   | Qty         | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |     |
| PRIOR YEARS       | 190         | 7.7 | 31      | 1.7 |         |    |         |    | 4       | 0.3 |         |     |         |     |         |    |         |    |             |    | 225   | 9.7 |     |
| FY 1998 EQUIPMENT |             |     |         |     |         |    |         |    | 8       | 0.5 | 1       | 0.1 |         |     |         |    |         |    |             |    | 9     | 0.6 |     |
| FY 1999 EQUIPMENT |             |     |         |     |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2000 EQUIPMENT |             |     |         |     |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2001 EQUIPMENT |             |     |         |     |         |    |         |    |         |     | 10      | 0.7 | 2       | 0.1 |         |    |         |    |             |    | 12    | 0.8 |     |
| FY 2002 EQUIPMENT |             |     |         |     |         |    |         |    |         |     |         |     | 28      | 1.7 |         |    |         |    |             |    | 28    | 1.7 |     |
| FY 2003 EQUIPMENT |             |     |         |     |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2004 EQUIPMENT |             |     |         |     |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2005 EQUIPMENT |             |     |         |     |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| TO COMPLETE       |             |     |         |     |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             | 34 | 2.4   | 308 | 2.4 |

INSTALLATION SCHEDULE:

|     | FY 1998 & Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |    |    |    | FY 2004 |   |   |   | FY 2005 |   |   |   | IC | TOTAL |     |
|-----|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|----|----|----|---------|---|---|---|---------|---|---|---|----|-------|-----|
|     |                 | 1       | 2 | 3 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1  | 2  | 3  | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 |    |       | 4   |
| In  | 221             | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 8 | 0 | 4 | 0       | 4 | 4 | 3 | 0       | 10 | 10 | 10 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 34    | 308 |
| Out | 221             | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 8 | 0 | 4 | 0       | 4 | 4 | 3 | 0       | 10 | 10 | 10 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 34    | 308 |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CFC-12 REEFER UNIT TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT  
 CONVERSION

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |      | FY 1998 |     | FY 1999 |     | FY 2000 |    | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |    | FY 2005 |    | TC  |     | TOTAL |      |  |
|-------------------------------------|-----------------|------|---------|-----|---------|-----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|-----|-----|-------|------|--|
|                                     | QTY             | \$   | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY | \$  | QTY   | \$   |  |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| <i>RDT&amp;E</i>                    |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| <u>PROCUREMENT</u>                  |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| INSTALLATION KITS                   |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| INSTALLATION KITS - UNIT COST       |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| INSTALLATION KITS NONRECURRING      |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| EQUIPMENT                           | 293             | 7.4  | 103     | 2.6 | 6       | 0.1 |         |    | 50      | 2.6 | 90      | 3.9 | 10      | 0.6 |         |    |         |    | 60  | 1.4 | 612   | 18.6 |  |
| EQUIPMENT NONRECURRING              |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| ENGINEERING CHANGE ORDERS           |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| DATA                                |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| TRAINING EQUIPMENT                  |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| SUPPORT EQUIPMENT                   |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| OTHER                               |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| OTHER                               |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| OTHER                               |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| INTERIM CONTRACTOR SUPPORT          |                 |      |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |     |     |       |      |  |
| INSTALL COST                        | 270             | 8.2  | 57      | 3.7 | 15      | 1.0 |         |    | 52      | 3.4 | 38      | 2.7 | 120     | 7.2 |         |    |         |    | 60  | 2.4 | 612   | 28.6 |  |
| TOTAL PROCUREMENT                   |                 | 15.6 |         | 6.3 |         | 1.1 |         |    |         | 6.0 |         | 6.6 |         | 7.8 |         |    |         |    |     | 3.8 |       | 47.2 |  |

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CFC-12 REFER UNIT CONVERSION MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: AIT  
 ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: \_\_\_\_\_ Months  
 CONTRACT DATES: FY 1999: Feb-99 FY 2000: \_\_\_\_\_ FY 2001: Feb-01  
 DELIVERY DATE: FY 1999: Nov-99 FY 2000: \_\_\_\_\_ FY 2001: APR 01

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |     | FY 1999 |     | FY 2000 |    | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |    | FY 2005 |    | To Complete |     | Total |     |
|-------------------|-------------|-----|---------|-----|---------|-----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|-------------|-----|-------|-----|
|                   | Qty         | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty         | \$  | Qty   | \$  |
| PRIOR YEARS       | 270         | 8.2 | 23      | 1.6 |         |     |         |    |         |     |         |     |         |     |         |    |         |    |             |     | 293   | 9.8 |
| FY 1998 EQUIPMENT |             |     | 34      | 2.1 | 15      | 1.0 |         |    | 52      | 3.4 | 2       | 0.1 |         |     |         |    |         |    |             |     | 103   | 6.6 |
| FY 1999 EQUIPMENT |             |     |         |     |         |     |         |    | 0       | 0.0 | 6       | 0.4 |         |     |         |    |         |    |             |     | 6     | 0.4 |
| FY 2000 EQUIPMENT |             |     |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |             |     |       |     |
| FY 2001 EQUIPMENT |             |     |         |     |         |     |         |    |         |     | 30      | 1.8 | 20      | 0.7 |         |    |         |    |             |     | 50    | 2.5 |
| FY 2002 EQUIPMENT |             |     |         |     |         |     |         |    |         |     |         |     | 90      | 6.1 |         |    |         |    |             |     | 90    | 6.1 |
| FY 2003 EQUIPMENT |             |     |         |     |         |     |         |    |         |     |         |     | 10      | 0.4 |         |    |         |    |             |     | 10    | 0.4 |
| FY 2004 EQUIPMENT |             |     |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |             |     |       |     |
| FY 2005 EQUIPMENT |             |     |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    |             |     |       |     |
| TO COMPLETE       |             |     |         |     |         |     |         |    |         |     |         |     |         |     |         |    |         |    | 60          | 3.6 | 612   | 2.4 |

INSTALLATION SCHEDULE:

|     | FY 1998 & Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |    |   | FY 2002 |    |   |    | FY 2003 |    |    |    | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |     |
|-----|-----------------|---------|---|---|---|---------|---|---|---|---------|---|----|---|---------|----|---|----|---------|----|----|----|---------|---|---|---|---------|---|---|---|----|-------|-----|
|     |                 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3  | 4 | 1       | 2  | 3 | 4  | 1       | 2  | 3  | 4  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |     |
| In  | 327             | 5       | 4 | 0 | 0 | 6       | 0 | 0 | 0 | 0       | 0 | 34 | 8 | 10      | 11 | 4 | 18 | 5       | 26 | 39 | 24 | 31      | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 60    | 612 |
| Out | 327             | 5       | 4 | 0 | 0 | 6       | 0 | 0 | 0 | 0       | 0 | 34 | 8 | 10      | 11 | 4 | 18 | 5       | 26 | 39 | 24 | 31      | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 60    | 612 |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SMALL SOLID WASTE PULPER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:  
 Process Metal and Glass for disposal overboard.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     |  | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |      |
|-------------------------------------|--|----------------------------|----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|------|
|                                     |  | QTY                        | \$ | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$   |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| <u>RDT&amp;E</u>                    |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| <u>PROCUREMENT</u>                  |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALLATION KITS                   |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALLATION KITS - UNIT COST       |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALLATION KITS NONRECURRING      |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| EQUIPMENT                           |  |                            |    | 21             | 1.8 | 16             | 1.3 | 5              | 0.4 |                |     |                |    |                |    |                |    |                |    |           |    | 42           | 3.5  |
| EQUIPMENT NONRECURRING              |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| ENGINEERING CHANGE ORDERS           |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| DATA                                |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| TRAINING EQUIPMENT                  |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| SUPPORT EQUIPMENT                   |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| OTHER                               |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| OTHER                               |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| OTHER                               |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INTERIM CONTRACTOR SUPPORT          |  |                            |    |                |     |                |     |                |     |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALL COST                        |  |                            |    | 1              | 1.9 | 13             | 7.9 | 27             | 7.8 | 1              | 0.3 |                |    |                |    |                |    |                |    |           |    | 42           | 17.9 |
| TOTAL PROCUREMENT                   |  |                            |    |                | 3.7 |                | 9.2 |                | 8.2 |                | 0.3 |                |    |                |    |                |    |                |    |           |    |              | 21.4 |

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SMALL SOLID WASTE PULPER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPYARD  
 ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 8 Months  
 CONTRACT DATES: FY 1999: Apr-99 FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: Oct-99 FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |      |
|-------------------|-------------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|------|
|                   | Qty         | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |      |
| PRIOR YEARS       |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |
| FY 1998 EQUIPMENT |             |    | 1       | 1.8 | 13      | 6.7 | 7       | 1.9 |         |     |         |    |         |    |         |    |         |    |             |    |       | 21 | 10.4 |
| FY 1999 EQUIPMENT |             |    | AP      | 0.1 | AP      | 1.2 | 15      | 4.4 | 1       | 0.3 |         |    |         |    |         |    |         |    |             |    |       | 16 | 6.0  |
| FY 2000 EQUIPMENT |             |    |         |     |         |     | 5       | 1.5 |         |     |         |    |         |    |         |    |         |    |             |    |       | 5  | 1.5  |
| FY 2001 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |
| FY 2002 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |
| FY 2003 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |
| FY 2004 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |
| FY 2005 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |
| TO COMPLETE       |             |    |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       | 42 |      |

INSTALLATION SCHEDULE:

|     | FY 1998 & Prior | FY 1999 |   |   |   | FY 2000 |   |   |    | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|-----------------|---------|---|---|---|---------|---|---|----|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     |                 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 1               | 1       | 5 | 3 | 4 | 5       | 4 | 6 | 12 | 1       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 42    |
| Out | 1               | 1       | 1 | 5 | 3 | 4       | 5 | 4 | 6  | 12      | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 42    |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LARGE SOLID WASTE PULPER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:  
 Process food, paper and other waste for disposal overboard.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |      | FY 1999 |      | FY 2000 |      | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | TC  |    | TOTAL |       |  |
|-------------------------------------|-----------------|-----|---------|------|---------|------|---------|------|---------|-----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|-------|--|
|                                     | QTY             | \$  | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$    |  |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| <u>RDT&amp;E</u>                    |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| <u>PROCUREMENT</u>                  |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| INSTALLATION KITS                   |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| INSTALLATION KITS NONRECURRING      |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| EQUIPMENT                           |                 |     | 86      | 9.1  | 50      | 5.3  | 2       | 0.2  |         |     |         |    |         |    |         |    |         |    |     |    | 138   | 14.6  |  |
| EQUIPMENT NONRECURRING              |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| DATA                                |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| TRAINING EQUIPMENT                  |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| SUPPORT EQUIPMENT                   |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| OTHER                               |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| OTHER                               |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| OTHER                               |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |     |    |       |       |  |
| INSTALL COST                        | AP              | 1.3 | 5       | 14.8 | 56      | 44.0 | 75      | 51.2 | 2       | 0.6 |         |    |         |    |         |    |         |    |     |    | 138   | 111.9 |  |
| TOTAL PROCUREMENT                   |                 | 1.3 |         | 23.9 |         | 49.3 |         | 51.4 |         | 0.6 |         |    |         |    |         |    |         |    |     |    |       | 126.5 |  |

\* 1 UNIT PROCURED WITH OPN \$ AND INSTALLED WITH SCN \$

**P3A (Continued) INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: LARGE SOLID WASTE PULPER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPYARD  
 ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 1999: Apr-99 FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: Oct-99 FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |      | FY 1999 |      | FY 2000 |      | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |      |     |
|-------------------|-------------|-----|---------|------|---------|------|---------|------|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|------|-----|
|                   | Qty         | \$  | Qty     | \$   | Qty     | \$   | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |      |     |
| PRIOR YEARS       |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |
| FY 1998 EQUIPMENT | AP          | 1.3 | 5       | 14.6 | 56      | 36.5 | 25      | 20.0 |         |     |         |    |         |    |         |    |         |    |             |    |       | 86 | 72.4 |     |
| FY 1999 EQUIPMENT |             |     | AP      | 0.2  | AP      | 7.5  | 48      | 30.6 | 2       | 0.6 |         |    |         |    |         |    |         |    |             |    |       | 50 | 38.9 |     |
| FY 2000 EQUIPMENT |             |     |         |      |         |      | 2       | 0.6  |         |     |         |    |         |    |         |    |         |    |             |    |       |    | 2    | 0.6 |
| FY 2001 EQUIPMENT |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |
| FY 2002 EQUIPMENT |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |
| FY 2003 EQUIPMENT |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |
| FY 2004 EQUIPMENT |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |
| FY 2005 EQUIPMENT |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |
| TO COMPLETE       |             |     |         |      |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |    |      |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |    |    |    | FY 2000 |    |    |    | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | IC | TOTAL |
|-----|---------|---------|----|----|----|---------|----|----|----|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 5       | 7       | 18 | 17 | 14 | 17      | 28 | 14 | 16 | 1       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 138   |
| Out | 0       | 5       | 7  | 18 | 17 | 14      | 17 | 28 | 14 | 16      | 1 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 138   |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: POLLUTION PREVENTION AFLOAT TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

The shipboard funds provide for the procurement and Fleetwide installation of pollution prevention equipment which will produce immediate life cycle cost savings to the Fleet through reduction in the quantity of hazardous material used aboard ship, offloaded, and subsequently disposed of by shore activities as hazardous waste.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1996 &amp; Prior</u> |    | <u>FY 1998</u> |    | <u>FY 1999</u> |    | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |     | <u>FY 2004</u> |     | <u>FY 2005</u> |     | <u>TC</u> | <u>TOTAL</u> |     |      |
|-------------------------------------|----------------------------|----|----------------|----|----------------|----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|-----------|--------------|-----|------|
|                                     | QTY                        | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY       | \$           |     |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| <u>RDT&amp;E</u>                    |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| <u>PROCUREMENT</u>                  |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| INSTALLATION KITS                   |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| INSTALLATION KITS - UNIT COST       |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| INSTALLATION KITS NONRECURRING      |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| EQUIPMENT                           |                            |    |                |    |                |    | 20             | 2.3 | 20             | 2.5 | 26             | 3.0 | 30             | 3.6 | 21             | 2.5 | 14             | 1.5 | 28        | 3.0          | 159 | 18.4 |
| EQUIPMENT NONRECURRING              |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| ENGINEERING CHANGE ORDERS           |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| DATA                                |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| TRAINING EQUIPMENT                  |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| SUPPORT EQUIPMENT                   |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| OTHER                               |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| OTHER                               |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| OTHER                               |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |    |                |    |                |     |                |     |                |     |                |     |                |     |                |     |           |              |     |      |
| INSTALL COST                        |                            |    |                |    |                |    | 20             | 1.2 | 20             | 2.8 | 26             | 3.3 | 30             | 3.8 | 21             | 2.6 | 14             | 1.5 | 28        | 3.3          | 159 | 18.5 |
| TOTAL PROCUREMENT                   |                            |    |                |    |                |    |                | 3.5 |                | 5.3 |                | 6.3 |                | 7.4 |                | 5.1 |                | 3.0 |           | 6.3          |     | 36.9 |

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: POLLUTION PREVENTION      MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT  
 AFLOAT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT SHIPYARD

ADMINISTRATIVE LEADTIME: 9 Months

PRODUCTION LEADTIME: 4 Months

CONTRACT DATES:    FY 1999: \_\_\_\_\_

                          FY 2000: Nov-99

                          FY 2001: Nov-00

DELIVERY DATE:    FY 1999: \_\_\_\_\_

                          FY 2000: Mar-00

                          FY 2001: Mar-01

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |     | Total |     |
|-------------------|-------------|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|-----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$  | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |             |     |       |     |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |             |     |       |     |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |             |     |       |     |
| FY 2000 EQUIPMENT |             |    |         |    |         |    | 20      | 1.2 |         |     |         |     |         |     |         |     |         |     |             |     | 20    | 1.2 |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |     | 20      | 2.8 |         |     |         |     |         |     |         |     |             |     | 20    | 2.8 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |     |         |     | 26      | 3.3 |         |     |         |     |         |     |             |     | 26    | 3.3 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |     |         |     |         |     | 30      | 3.8 |         |     |         |     |             |     | 30    | 3.8 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |     |         |     |         |     |         |     | 21      | 2.6 |         |     |             |     | 21    | 2.6 |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     | 14      | 1.5 |             |     | 14    | 1.5 |
| TO COMPLETE       |             |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     | 28          | 3.3 | 28    | 3.3 |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |   |   |   | FY 2000 |    |   |   | FY 2001 |   |   |   | FY 2002 |   |    |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|----|---|---|---------|---|---|---|---------|---|----|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     |                    | 1       | 2 | 3 | 4 | 1       | 2  | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3  | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0                  | 0       | 0 | 0 | 0 | 0       | 11 | 2 | 7 | 5       | 7 | 7 | 1 | 4       | 9 | 10 | 3 | 15      | 8 | 4 | 3 | 0       | 5 | 9 | 7 | 2       | 5 | 7 | 0 | 28 | 159   |
| Out | 0                  | 0       | 0 | 0 | 0 | 0       | 11 | 2 | 7 | 5       | 7 | 7 | 1 | 4       | 9 | 10 | 3 | 15      | 8 | 4 | 3 | 0       | 5 | 9 | 7 | 2       | 5 | 7 | 0 | 28 | 159   |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CFC-114 AC UNIT CONVERSION TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Modifies CFC-114 AC Units

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |      | <u>FY 1999</u> |      | <u>FY 2000</u> |     | <u>FY 2001</u> |      | <u>FY 2002</u> |      | <u>FY 2003</u> |      | <u>FY 2004</u> |      | <u>FY 2005</u> |      | <u>TC</u> |       | <u>TOTAL</u> |       |
|-------------------------------------|----------------------------|----|----------------|------|----------------|------|----------------|-----|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|-----------|-------|--------------|-------|
|                                     | QTY                        | \$ | QTY            | \$   | QTY            | \$   | QTY            | \$  | QTY            | \$   | QTY            | \$   | QTY            | \$   | QTY            | \$   | QTY            | \$   | QTY       | \$    | QTY          | \$    |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| <i>RDT&amp;E</i>                    |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| <i>PROCUREMENT</i>                  |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| INSTALLATION KITS                   |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| INSTALLATION KITS - UNIT COST       |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| INSTALLATION KITS NONRECURRING      |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| EQUIPMENT                           |                            |    | 20             | 5.2  | 17             | 4.5  | 8              | 2.2 | 52             | 16.3 | 67             | 21.0 | 67             | 21.5 | 56             | 17.0 | 31             | 10.1 | 191       | 59.7  | 509          | 157.5 |
| EQUIPMENT NONRECURRING              |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| ENGINEERING CHANGE ORDERS           |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| DATA                                |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| TRAINING EQUIPMENT                  |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| SUPPORT EQUIPMENT                   |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| OTHER                               |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| OTHER                               |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| OTHER                               |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |      |                |      |                |     |                |      |                |      |                |      |                |      |                |      |           |       |              |       |
| INSTALL COST                        |                            |    | 8              | 4.8  | 12             | 6.0  | 21             | 7.3 | 4              | 4.7  | 52             | 17.4 | 67             | 21.5 | 67             | 19.0 | 56             | 16.8 | 222       | 89.0  | 509          | 186.5 |
| TOTAL PROCUREMENT                   |                            |    |                | 10.0 |                | 10.5 |                | 9.5 |                | 21.0 |                | 38.4 |                | 43.0 |                | 36.0 |                | 26.9 |           | 148.7 |              | 344.0 |

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CFC-114 AC UNIT CONVERSION MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPYARD  
 ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 9 Months  
 CONTRACT DATES: FY 1999: Dec-98 FY 2000: Dec-99 FY 2001: Dec-00  
 DELIVERY DATE: FY 1999: Sep-99 FY 2000: Sep-00 FY 2001: Sep-01

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |      | FY 2003 |      | FY 2004 |      | FY 2005 |      | To Complete |      | Total |      |
|-------------------|-------------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|------|---------|------|---------|------|---------|------|-------------|------|-------|------|
|                   | Qty         | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$   | Qty     | \$   | Qty     | \$   | Qty     | \$   | Qty         | \$   | Qty   | \$   |
| PRIOR YEARS       |             |    |         |     |         |     |         |     |         |     |         |      |         |      |         |      |         |      |             |      |       |      |
| FY 1998 EQUIPMENT |             |    | 8       | 4.6 | 8       | 4.1 | AP      | 0.4 | 4       | 1.7 |         |      |         |      |         |      |         |      |             |      | 20    | 10.8 |
| FY 1999 EQUIPMENT |             |    | AP      | 0.2 | 4       | 1.7 | 13      | 3.2 |         |     |         |      |         |      |         |      |         |      |             |      | 17    | 5.1  |
| FY 2000 EQUIPMENT |             |    |         |     | AP      | 0.2 | 8       | 2.4 | 0       | 0.0 |         |      |         |      |         |      |         |      |             |      | 8     | 2.6  |
| FY 2001 EQUIPMENT |             |    |         |     |         |     | AP      | 1.3 | AP      | 2.1 | 52      | 13.1 |         |      |         |      |         |      |             |      | 52    | 16.5 |
| FY 2002 EQUIPMENT |             |    |         |     |         |     |         |     | AP      | 0.9 | AP      | 2.2  | 67      | 17.0 |         |      |         |      |             |      | 67    | 20.1 |
| FY 2003 EQUIPMENT |             |    |         |     |         |     |         |     |         |     | AP      | 2.1  | AP      | 3.6  | 67      | 16.2 |         |      |             |      | 67    | 21.9 |
| FY 2004 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |      | AP      | 0.9  | AP      | 1.9  | 56      | 15.2 |             |      | 56    | 18.0 |
| FY 2005 EQUIPMENT |             |    |         |     |         |     |         |     |         |     |         |      |         |      | AP      | 0.9  | AP      | 1.6  | 31          | 17.0 | 31    | 19.5 |
| TO COMPLETE       |             |    |         |     |         |     |         |     |         |     |         |      |         |      |         |      |         |      | 189         | 72.0 | 189   | 72.0 |

INSTALLATION SCHEDULE:

|     | FY 1998 & Prior | FY 1999 |   |   |   | FY 2000 |   |   |    | FY 2001 |   |   |   | FY 2002 |    |    |   | FY 2003 |    |    |    | FY 2004 |    |    |    | FY 2005 |    |    |    | TC  | TOTAL |
|-----|-----------------|---------|---|---|---|---------|---|---|----|---------|---|---|---|---------|----|----|---|---------|----|----|----|---------|----|----|----|---------|----|----|----|-----|-------|
|     |                 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4  | 1       | 2 | 3 | 4 | 1       | 2  | 3  | 4 | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  |     |       |
| In  | 8               | 0       | 8 | 4 | 0 | 4       | 0 | 5 | 12 | 0       | 0 | 0 | 4 | 4       | 37 | 3  | 8 | 12      | 18 | 2  | 35 | 7       | 27 | 14 | 19 | 5       | 30 | 16 | 5  | 222 | 509   |
| Out | 0               | 8       | 0 | 8 | 4 | 0       | 4 | 0 | 5  | 12      | 0 | 0 | 0 | 4       | 4  | 37 | 3 | 8       | 12 | 18 | 2  | 35      | 7  | 27 | 14 | 19      | 5  | 30 | 16 | 227 | 509   |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FOOD GRINDER/PULPER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

SHIPALT 4102K installs a dedicated food grinder/pulper and skin in the SSN 688 Class galley/scullery.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |     | <u>FY 2004</u> |     | <u>FY 2005</u> |    | <u>TC</u> | <u>TOTAL</u> |      |
|-------------------------------------|----------------------------|----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|-----------|--------------|------|
|                                     | QTY                        | \$ | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY       | \$           |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| <u>RDT&amp;E</u>                    |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| <u>PROCUREMENT</u>                  |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| INSTALLATION KITS                   |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| INSTALLATION KITS - UNIT COST       |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| INSTALLATION KITS NONRECURRING      |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| EQUIPMENT                           |                            |    |                |     |                |     |                |     | 11             | 0.1 | 5              | 0.1 | 5              | 0.1 |                |     |                | 23 | 0.1       | 44           | 0.4  |
| EQUIPMENT NONRECURRING              |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| ENGINEERING CHANGE ORDERS           |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| DATA                                |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| TRAINING EQUIPMENT                  |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| SUPPORT EQUIPMENT                   |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| OTHER                               |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| OTHER                               |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| OTHER                               |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |              |      |
| INSTALL COST                        |                            |    |                |     |                |     |                |     | 11             | 2.4 | 5              | 1.1 | 5              | 1.1 |                |     |                | 23 | 5.0       | 44           | 9.6  |
| TOTAL PROCUREMENT                   |                            |    |                | 0.0 |                | 0.0 |                | 0.0 |                | 2.5 |                | 1.2 |                | 1.2 |                | 0.0 |                | 0  |           | 5.1          | 10.0 |

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: FOOD GRINDER/PULPER      MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT SHIPYARD

ADMINISTRATIVE LEADTIME: 9 Months

PRODUCTION LEADTIME: 4 Months

CONTRACT DATES:    FY 1999: \_\_\_\_\_

FY 2000: \_\_\_\_\_

FY 2001: Dec-00

DELIVERY DATE:    FY 1999: \_\_\_\_\_

FY 2000: \_\_\_\_\_

FY 2001: Mar-01

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |     |
|-------------------|-------------|----|---------|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|-------------|----|-------|-----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |     |
| PRIOR YEARS       |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |    | 11      | 2.4 |         |     |         |     |         |    |         |    |             |    | 11    | 2.4 |     |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |    |         |     | 5       | 1.1 |         |     |         |    |         |    |             |    | 5     | 1.1 |     |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     | 5       | 1.1 |         |    |         |    |             |    | 5     | 1.1 |     |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             |    |       |     |     |
| TO COMPLETE       |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |    |         |    |             | 23 | 5.0   | 23  | 5.0 |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |    |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|----|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2  | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 11 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 23 | 44    |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 11 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 23 | 44    |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: METAL GLASS SHREDDER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Process Food paper and other Non Plastic Waste for disposal overboard.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |      | <u>FY 1999</u> |      | <u>FY 2000</u> |      | <u>FY 2001</u> |     | <u>FY 2002</u> |    | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |      |
|-------------------------------------|----------------------------|-----|----------------|------|----------------|------|----------------|------|----------------|-----|----------------|----|----------------|----|----------------|----|----------------|----|-----------|----|--------------|------|
|                                     | QTY                        | \$  | QTY            | \$   | QTY            | \$   | QTY            | \$   | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$ | QTY          | \$   |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| <u>RDT&amp;E</u>                    |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| <u>PROCUREMENT</u>                  |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALLATION KITS                   |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALLATION KITS - UNIT COST       |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALLATION KITS NONRECURRING      |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| EQUIPMENT                           |                            |     | 100            | 5.9  | 57             | 3.5  | 7              | 0.5  |                |     |                |    |                |    |                |    |                |    |           |    | 164          | 9.9  |
| EQUIPMENT NONRECURRING              |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| ENGINEERING CHANGE ORDERS           |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| DATA                                |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| TRAINING EQUIPMENT                  |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| SUPPORT EQUIPMENT                   |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| OTHER                               |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| OTHER                               |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| OTHER                               |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |      |                |      |                |      |                |     |                |    |                |    |                |    |                |    |           |    |              |      |
| INSTALL COST                        | AP                         | 0.4 | 5              | 9.3  | 62             | 25.6 | 94             | 30.4 | 3              | 0.7 |                |    |                |    |                |    |                |    |           |    | 164          | 66.4 |
| TOTAL PROCUREMENT                   |                            | 0.4 |                | 15.2 |                | 29.1 |                | 30.9 |                | 0.7 |                |    |                |    |                |    |                |    |           |    |              | 76.3 |

\* 1 UNIT PROCURED WITH OPN \$ AND INSTALLED WITH SCN \$

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: METAL GLASS SHREDDER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 12 Months

PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 1999: APR 99

FY 2000: \_\_\_\_\_

FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: OCT 99

FY 2000: \_\_\_\_\_

FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |     | FY 1998 |     | FY 1999 |      | FY 2000 |      | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |      |
|-------------------|-------------|-----|---------|-----|---------|------|---------|------|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-----|------|
|                   | Qty         | \$  | Qty     | \$  | Qty     | \$   | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |      |
| PRIOR YEARS       |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |
| FY 1998 EQUIPMENT | AP          | 0.4 | 5       | 6.6 | 62      | 20.8 | 33      | 10.7 |         |     |         |    |         |    |         |    |         |    |             |    |       | 100 | 38.5 |
| FY 1999 EQUIPMENT |             |     | AP      | 2.7 | AP      | 4.8  | 54      | 18.1 | 3       | 0.7 |         |    |         |    |         |    |         |    |             |    |       | 57  | 26.3 |
| FY 2000 EQUIPMENT |             |     |         |     |         |      | 7       | 1.6  |         |     |         |    |         |    |         |    |         |    |             |    |       | 7   | 1.6  |
| FY 2001 EQUIPMENT |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |
| FY 2002 EQUIPMENT |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |
| FY 2003 EQUIPMENT |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |
| FY 2004 EQUIPMENT |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |
| FY 2005 EQUIPMENT |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |
| TO COMPLETE       |             |     |         |     |         |      |         |      |         |     |         |    |         |    |         |    |         |    |             |    |       |     |      |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |    |    |    | FY 2000 |    |    |    | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | IC | TOTAL |
|-----|--------------------|---------|----|----|----|---------|----|----|----|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     |                    | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 5                  | 8       | 21 | 16 | 17 | 18      | 30 | 20 | 26 | 2       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 164   |
| Out | 0                  | 5       | 8  | 21 | 16 | 17      | 18 | 30 | 20 | 26      | 2 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 164   |

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 10NP OIL WATER SEPARATOR TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

This program extends the oily waste transfer system to include remote space such as JP5 pump rooms.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |      | <u>FY 1998</u> |     | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |     | <u>FY 2004</u> |     | <u>FY 2005</u> |    | <u>TC</u> |    | <u>TOTAL</u> |     |      |
|-------------------------------------|----------------------------|------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|-----------|----|--------------|-----|------|
|                                     | QTY                        | \$   | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY       | \$ | QTY          | \$  |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| <i>RDT&amp;E</i>                    |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| <i>PROCUREMENT</i>                  |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| INSTALLATION KITS                   |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| INSTALLATION KITS - UNIT COST       |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| INSTALLATION KITS NONRECURRING      |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| EQUIPMENT                           | 211                        | 8.6  |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              | 211 | 8.6  |
| EQUIPMENT NONRECURRING              |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| ENGINEERING CHANGE ORDERS           |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| DATA                                |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| TRAINING EQUIPMENT                  |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| SUPPORT EQUIPMENT                   |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| OTHER                               |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| OTHER                               |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| OTHER                               |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| INTERIM CONTRACTOR SUPPORT          |                            |      |                |     |                |     |                |     |                |     |                |     |                |     |                |     |                |    |           |    |              |     |      |
| INSTALL COST                        | 193                        | 18.7 | 1              | 0.1 |                |     | 2              | 0.6 |                |     |                |     |                |     |                |     |                |    |           |    |              | 196 | 19.4 |
| TOTAL PROCUREMENT                   |                            | 27.3 |                | 0.1 |                | 0.0 |                | 0.6 |                | 0.0 |                | 0.0 |                | 0.0 |                | 0.0 |                | 0  |           |    |              |     | 28.0 |



P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: C100 OIL/WATER SEPARATOR TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Removes Oil from Oily Bilge Water to meet discharge regulations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

|                                     | <u>FY 1997 &amp; Prior</u> |     | <u>FY 1998</u> |      | <u>FY 1999</u> |     | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |    | <u>FY 2004</u> |    | <u>FY 2005</u> |    | <u>TC</u> | <u>TOTAL</u> |      |
|-------------------------------------|----------------------------|-----|----------------|------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|-----------|--------------|------|
|                                     | QTY                        | \$  | QTY            | \$   | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$ | QTY            | \$ | QTY            | \$ | QTY       | \$           |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| <u>RDT&amp;E</u>                    |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| <u>PROCUREMENT</u>                  |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| INSTALLATION KITS                   |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| INSTALLATION KITS - UNIT COST       |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| INSTALLATION KITS NONRECURRING      |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| EQUIPMENT                           | 27                         | 0.8 |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           | 27           | 0.8  |
| EQUIPMENT NONRECURRING              |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| ENGINEERING CHANGE ORDERS           |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| DATA                                |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| TRAINING EQUIPMENT                  |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| SUPPORT EQUIPMENT                   |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| OTHER                               |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| OTHER                               |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| OTHER                               |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| INTERIM CONTRACTOR SUPPORT          |                            |     |                |      |                |     |                |     |                |     |                |     |                |    |                |    |                |    |           |              |      |
| INSTALL COST                        | 6                          | 5.3 | 8              | 10.8 | 4              | 7.2 | 2              | 1.5 | 2              | 1.5 | 2              | 3.6 |                |    |                |    |                |    |           | 24           | 29.9 |
| TOTAL PROCUREMENT                   |                            | 6.1 |                | 10.8 |                | 7.2 |                | 1.5 |                | 1.5 |                | 3.6 |                |    |                |    |                |    |           |              | 30.7 |

\* 1 UNIT CONTRACTED PRIOR TO DECOMMISSIONING DECISION.  
2 UNITS PROCURED WITH OPN \$ AND INSTALLED WITH SCN \$







CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/ BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**SUBMARINE SILENCING EQUIPMENT BLI: 094000 SBHD: 81HG**

Program Element for Code B Items:

Other Related Program Elements

|                              | Prior<br>Years | ID<br>Code | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | To<br>Complete | Total |
|------------------------------|----------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------|
| QUANTITY                     |                |            |         |         |         |         |         |         |         |         |                |       |
| COST<br>(In Millions)        |                | A          |         | \$3.4   |         |         |         |         |         |         |                | \$3.4 |
| SPARES COST<br>(In Millions) |                |            |         |         |         |         |         |         |         |         |                | \$0.0 |

This program was consolidated into Budget Line Item 0941000 starting in FY 00.

This program is for the procurement of special material required to implement the military's high priority Submarine Silencing Program for operating nuclear submarines. The overall objectives and detail requirements for this program were established and defined in the CNO Specific Operational Requirements (SOR) 46-28 and NAVSEAINST C9073.2B. Only one program is in place to procure hardware systems for the purpose of measuring/monitoring, assessing, and improving the detection capability / reducing the detectability of our submarines.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                |         |                                    | Weapon System |                                                                                       |            |          |           |            |          |           |            | DATE:<br>February 2000 |           |            |  |   |
|------------------------------------------------------------------------------------------|--------------------------------|---------|------------------------------------|---------------|---------------------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------|------------------------|-----------|------------|--|---|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>SUBMARINE SILENCING EQUIPMENT BLI: 094000 SBHD: 81HG |            |          |           |            |          |           |            |                        |           |            |  |   |
| COST CODE                                                                                | ELEMENT OF COST                | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                                       |            |          |           |            |          |           |            |                        |           |            |  |   |
|                                                                                          |                                |         | Prior Years                        | FY 1998       |                                                                                       |            | FY 1999  |           |            | FY 2000  |           |            | FY 2001                |           |            |  |   |
|                                                                                          |                                |         | Total Cost                         | Quantity      | Unit Cost                                                                             | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity               | Unit Cost | Total Cost |  |   |
|                                                                                          | <u>Submarines (N87)</u>        |         |                                    |               |                                                                                       |            |          |           |            |          |           |            |                        |           |            |  |   |
| HG050                                                                                    | Facilities/Lab Upgrades/Refurb | A       |                                    |               |                                                                                       |            |          |           |            |          | 3,422     |            |                        |           |            |  |   |
| HG5IN                                                                                    | FMP Installation               |         |                                    |               |                                                                                       |            |          |           |            |          |           |            |                        |           |            |  |   |
|                                                                                          |                                |         | 0                                  |               |                                                                                       | 0          |          |           |            |          | 3,422     |            |                        |           | 0          |  | 0 |

CLASSIFICATION:

**UNCLASSIFIED**

| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         |              |              |               |               | DATE: <b>February 2000</b>                                                              |               |              |               |             |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--------------|--------------|---------------|---------------|-----------------------------------------------------------------------------------------|---------------|--------------|---------------|-------------|---------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |              |              |               |               | P-1 ITEM NOMENCLATURE<br><b>Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB</b> |               |              |               |             |               |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |              |              |               |               | Other Related Program Elements<br><b>N/A</b>                                            |               |              |               |             |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prior Years | ID Code | FY 1998      | FY 1999      | FY 2000       | FY 2001       | FY 2002                                                                                 | FY 2003       | FY 2004      | FY 2005       | To Complete | Total         |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |         |              |              |               |               |                                                                                         |               |              |               |             |               |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         | <b>\$0.0</b> | <b>\$0.0</b> | <b>\$50.3</b> | <b>\$11.4</b> | <b>\$6.9</b>                                                                            | <b>\$11.7</b> | <b>\$3.8</b> | <b>\$13.7</b> |             | <b>\$97.8</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |              |              |               |               |                                                                                         |               |              |               |             | <b>\$0.0</b>  |
| <p>MAJOR SHORE SPARES - Based on experience gained from other submarine classes, major shore spares assets are required to support a major ship program. Major shore spares will be available in the event of a catastrophic failure of a major component. These spares will support propulsion, electrical, ship control, major auxiliary systems, and other SEAWOLF critical equipments which are currently in procurement for the SEAWOLF Class. Specific components to be bought have been identified based on the history of SSN 688 Class Major shore spares and the specific leadtime of each spare. Major shore spares will be installed both by IMA and depot level activities depending on the equipment and the severity of casualty. Most major shore spares will eventually transition to become rotatable pool spare initial assets prior to scheduled component replacement.</p> <p>ROTATABLE POOL - Rotatable Pool for support of SEAWOLF Class planned maintenance must be procured and available in time to support the scheduled maintenance actions specified in the SEAWOLF Class Maintenance Plan. The Rotatable Pool concept meets the OPNAV requirement to reduce the duration of depot maintenance periods, reduce repair cost, and increase operational availability. Increasing equipment complexity and lengthened repair turnaround times preclude ripout and reinstallation of many submarine components within planned depot availability timeframes. These spares will support propulsion, electrical, ship control, major auxiliary systems and other SEAWOLF critical equipments which are currently in production for the SEAWOLF Class. Specific components to be bought have been identified based upon design completion and ongoing logistic support analysis. Rotatable pool assets will be installed during regular ship upkeeps by IMA/Ships Force personnel and by shipyard personnel during scheduled availabilities (SRAs).</p> <p>SEAWOLF SPECIFIC IMA/DEPOT EQUIPMENT - Funding within this line will provide Submarine IMAs the support equipment necessary to provide maintenance and repair services on selected SEAWOLF unique systems. Adequate depot capability must exist to repair and maintain new technology systems and equipment on SEAWOLF submarines. This includes the procurement of special support equipment, test program sets, jigs, fixtures, etc. The SEAWOLF Class Performance Monitoring Program requires the procurement of special purpose support equipment necessary for monitoring the performance of critical systems and equipment on operational ships.</p> <p>SEAWOLF DEFICIENCY CORRECTION - The funding identified corrects both mechanical and acoustic deficiencies noted during SEAWOLF Seatrials. These deficiencies, if left uncorrected, would degrade the performance and acoustic signature of the ship.</p> <p>PB002 - VA CLASS PROPULSOR FOR SSN 21* - Specific performance deficiencies associated with the SEAWOLF propulsor have been identified during SEAWOLF lead ship post delivery trials. Installing a VIRGINIA class propulsor on the SEAWOLF will potentially correct the performance deficiency, mitigate the technical risk, and minimize the necessary capital investment, as well as placing our two quietest submarine classes on a common design. The funding profile covers procurement of propulsor components in FY 00, design of necessary stern modifications, and installation of these modifications during the FY 03 SSN 21 Selected Restricted Availability.</p> <p>The Virginia Class propulsor improved on the design developed for SEAWOLF. Using a Virginia class propulsor establishes a common propulsor design between the SEAWOLF and VIRGINIA classes, resulting in reduced infrastructure and support costs. Because the VIRGINIA class propulsor design is well developed, the technical risk and costs associated with installation on the SEAWOLF are minimized. Also, by installing a VIRGINIA Class propulsor on SSN 21, one complete SEAWOLF propulsor spare set (including propulsor bearing, shaft, and miscellaneous components) will not need to be procured. Additionally, the VIRGINIA class will also benefit from the full scale testing on the SEAWOLF.</p> <p>* "The propellers funding in FY 01 and outyear funding is reflected in BLI 051000 to properly realign funding."</p> |             |         |              |              |               |               |                                                                                         |               |              |               |             |               |

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------|
| <b>BUDGET ITEM JUSTIFICATION SHEET<br/>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                         | DATE:<br><b>February 2000</b> |
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | P-1 ITEM NOMENCLATURE<br><b>Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB</b> |                               |
| <p>Subhead 81PB</p> <p>This program is for the procurement of special material required to implement the military's high priority Submarine Silencing Program for operating nuclear submarines. The overall objectives and detail requirements for this program were established and defined in the CNO Specific Operational Requirements (SOR) 46-28 and NAVSEAINST C9073.2B. Only one program is in place to procure hardware systems for the purpose of measuring/monitoring, assessing, and improving the detection capability / reducing the detectability of our submarines.</p> <p>LABORATORY/FACILITIES UPGRADES/REFURBISHMENT (81PB)</p> <p>Consists of replacing or refurbishing broken, old obsolete acquisition and analysis hardware and software prior to equipment failure and subsequently jeopardizing ship's safety (e.g. ranging equipment) or the execution of acoustic trials and completion of trials program objectives outlined in CNO Specific Organizational Requirements 46-28 (assessment of ship's acoustic posture, etc.) and NAVSEAINST C9073.2B (Acoustics Surveys Policy). These planned refurbishments and replacements are especially critical in order to maintain the technological advancements recently made in the area of acoustic data acquisition under the Acoustic Measurement Facilities Program (AMFIP) East and West coasts (USNS HAYES and SEAFAC, respectively). Examples of these items include: hydrophone arrays, towed arrays, ranging and tracking systems, on-board array electronics, noise sources, shore power cables and data fiberoptic cables, data analysis systems, workstations, data storage and retrieval, communications systems, analyzers, tape recorders, accelerometers, monitors, etc. These equipments are utilized on the test vessel, the listening platform, and at the laboratories. [In FY97 and beyond, the East and West Coast requirements were merged into one funding line.]</p> |                                                                                         |                               |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                              |                                     |         |                                    | Weapon System |                                                                                                 |            |          |           |            |          |           |            | DATE:<br>February 2000 |           |            |        |
|--------------------------------------------------------------------------------------------------|-------------------------------------|---------|------------------------------------|---------------|-------------------------------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------|------------------------|-----------|------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |                                     |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB</b> |            |          |           |            |          |           |            |                        |           |            |        |
| COST CODE                                                                                        | ELEMENT OF COST                     | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                                                 |            |          |           |            |          |           |            |                        |           |            |        |
|                                                                                                  |                                     |         | Prior Years                        | FY 1998       |                                                                                                 |            | FY 1999  |           |            | FY 2000  |           |            | FY 2001                |           |            |        |
|                                                                                                  |                                     |         | Total Cost                         | Quantity      | Unit Cost                                                                                       | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity               | Unit Cost | Total Cost |        |
|                                                                                                  | Submarines (N87)                    |         |                                    |               |                                                                                                 |            |          |           |            |          |           |            |                        |           |            |        |
| PB001                                                                                            | SSN 21 Class Support Equipment      |         |                                    |               |                                                                                                 |            |          |           |            |          |           | 5,107      |                        |           |            | 7,100  |
|                                                                                                  | SEAWOLF Tool/Equipment under \$100k |         |                                    |               |                                                                                                 |            |          |           |            |          |           | 467        |                        |           |            | 69     |
|                                                                                                  | SEAWOLF Deficiency Corrections      |         |                                    |               |                                                                                                 |            |          |           |            |          |           | 19,099     |                        |           |            | 1,175  |
| PB002                                                                                            | VA Class Propulsor for SSN-21       |         |                                    |               |                                                                                                 |            |          |           |            |          |           | 22,397     |                        |           |            |        |
|                                                                                                  | Submarines (N87)                    |         |                                    |               |                                                                                                 |            |          |           |            |          |           |            |                        |           |            |        |
| PB004                                                                                            | Facilities/Lab Upgrades/Refurb      |         |                                    |               |                                                                                                 |            |          |           |            |          |           | 3,253      |                        |           |            | 3,075  |
|                                                                                                  |                                     |         | 0                                  |               |                                                                                                 | 0          |          |           | 0          |          |           | 50,323     |                        |           |            | 11,419 |

**UNCLASSIFIED**

CLASSIFICATION:

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                     |          |           | Weapon System |          |                                                                                          |               |          |           | DATE:<br>February 2000 |          |           |               |             |      |          |      |
|------------------------------------------------------------------------------------------|-------------------------------------|----------|-----------|---------------|----------|------------------------------------------------------------------------------------------|---------------|----------|-----------|------------------------|----------|-----------|---------------|-------------|------|----------|------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                     |          |           | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB |               |          |           |                        |          |           |               |             |      |          |      |
| COST CODE                                                                                | ELEMENT OF COST                     |          |           |               |          |                                                                                          |               |          |           |                        |          |           |               |             |      |          |      |
|                                                                                          |                                     | FY 2002  |           |               | FY 2003  |                                                                                          |               | FY 2004  |           |                        | FY 2005  |           |               | To Complete |      | Total    |      |
|                                                                                          |                                     | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost                                                                                | Total Cost    | Quantity | Unit Cost | Total Cost             | Quantity | Unit Cost | Total Cost    | Quantity    | Cost | Quantity | Cost |
|                                                                                          | Submarines (N87)                    |          |           |               |          |                                                                                          |               |          |           |                        |          |           |               |             |      |          |      |
| PB001                                                                                    | SSN 21 Class Support Equipment      |          |           | 1,800         |          |                                                                                          |               |          |           |                        |          |           |               |             |      |          |      |
|                                                                                          | SEAWOLF Tool/Equipment under \$100k |          |           | 589           |          |                                                                                          | 503           |          |           | 193                    |          |           | 143           |             |      |          |      |
|                                                                                          | SEAWOLF Deficiency Corrections      |          |           | 1241          |          |                                                                                          | 7,894         |          |           |                        |          |           | 9,848         |             |      |          |      |
|                                                                                          | Submarines (N87)                    |          |           |               |          |                                                                                          |               |          |           |                        |          |           |               |             |      |          |      |
| PB004                                                                                    | Facilities/Lab Upgrades/Refurb      |          |           | 3,235         |          |                                                                                          | 3,304         |          |           | 3,640                  |          |           | 3,758         |             |      |          |      |
|                                                                                          |                                     |          |           | <b>6,865</b>  |          |                                                                                          | <b>11,701</b> |          |           | <b>3,833</b>           |          |           | <b>13,749</b> |             |      |          |      |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                               |          |                       |                    |                   | Weapon System                                                     |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>SSN 21 Class Support Equipment</b> |                            |               |                                 | SUBHEAD<br><b>H1PB</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                         | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                      | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (00)<br>CC001                                                                            |          |                       |                    |                   |                                                                   |                            |               |                                 |                           |                                |
| SPU                                                                                                  | 1        | 2.596                 | Portsmouth NSY     |                   | SS/FFP                                                            | Westinghouse, PA           | 1/00          | 12/01                           | YES                       |                                |
| OGP Electrolysis Pwr Sup                                                                             | 1        | 0.48                  | Portsmouth NSY     |                   | SS/FFP                                                            | United Technology, CT      | 1/00          | 6/01                            | YES                       |                                |
| Rudder and External Gear                                                                             | 1        | 0.519                 | SUPSHIP Groton     |                   | SS/FFP                                                            | EB Corp, Groton CT         | 1/00          | 6/02                            | YES                       |                                |
| HPP Hydra Pump/Motor Assy                                                                            | 1        | 0.507                 | Portsmouth NSY     |                   | SS/FFP                                                            | IMO/DELEVAL, Monroe NC     | 1/01          | 11/02                           | YES                       |                                |
| ASW Constant Ven Hull & BU                                                                           | 2        | 0.125                 | Portsmouth NSY     |                   | SS/FFP                                                            | Sergent Controls, AZ       | 1/00          | 1/01                            | YES                       |                                |
| Periscope Eyepiece Type 18H                                                                          | 1        | 0.296                 | NUWC Newport       |                   | C/FFP                                                             | Kollmorgen, MA             | 4/00          | 6/01                            | YES                       |                                |
| Periscope E&E Adaptor Type 1                                                                         | 1        | 0.459                 | NUWC Newport       |                   | C/FFP                                                             | Kollmorgen, MA             | 4/00          | 6/01                            | YES                       |                                |
| FISCAL YEAR (01)<br>CC001                                                                            |          |                       |                    |                   |                                                                   |                            |               |                                 |                           |                                |
| Spatial Vernier Processing                                                                           | 2        | 3.4                   | NAVSEA             |                   | SS/FFP                                                            | Lockheed Martin, VA        | 3/01          | 6/02                            | YES                       |                                |
| Sanitary Pump Kit                                                                                    | 1        | 0.3                   | Portsmouth NSY     |                   | SS/FFP                                                            | Sergent Controls, AZ       | 1/01          | 7/02                            | YES                       |                                |
| D. REMARKS                                                                                           |          |                       |                    |                   |                                                                   |                            |               |                                 |                           |                                |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--|--------------|---------------|---------------|----------------------------------------------------------------------------|----------------------------|---------------|---------------|-------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |  |              |               |               |                                                                            | DATE: <b>February 2000</b> |               |               |             |               |
| <b>P-40</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |  |              |               |               |                                                                            |                            |               |               |             |               |
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |  |              |               |               | P-1 ITEM NOMENCLATURE<br><b>SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM</b> |                            |               |               |             |               |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         |  |              |               |               | Other Related Program Elements                                             |                            |               |               |             |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Prior Years | ID Code |  | FY 1999      | FY 2000       | FY 2001       | FY 2002                                                                    | FY 2003                    | FY 2004       | FY 2005       | To Complete | Total         |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |  |              |               |               |                                                                            |                            |               |               |             |               |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |         |  | <b>\$8.3</b> | <b>\$13.0</b> | <b>\$12.4</b> | <b>\$9.5</b>                                                               | <b>\$13.2</b>              | <b>\$13.5</b> | <b>\$13.8</b> |             | <b>\$83.7</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |  |              |               |               |                                                                            |                            |               |               |             |               |
| <p><b>GUPPY 1 MOD C - HM001</b><br/>           Batteries are the primary source of submarine emergency power and are "Mission Critical". They are replacement batteries for 637/640 class submarines whose installed batteries have reached the end of their service life. Thirty-five years of experience with this battery design has established a predicable service life of 72 months. Due to the electrochemical degradation associated with batteries service life extensions are not possible without significant reduction of system capability. Batteries must be replaced as scheduled in order to maintain fleet readiness.</p> <p><b>GUPPY 1 MOD E - HM002</b><br/>           Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These replacement batteries for 688 class are used as the secondary underwater power sources. The MOD E battery provides the increased energy needed to extend reactor troubleshooting and recovery time for this class of submarines. That is, MOD E will support vital ship loads for nearly twice as long as the MOD C (twice as long refers to the energy delivered during a discharge and not service life) and thereby, extends operational capabilities. The replacement schedule for these batteries is predicted using continually updated usage data from each ship. Previous experience and laboratory tests indicate that MOD E batteries will need replacement after 66 months of service.</p> <p><b>PRODUCTION ENGINEERING HM830</b><br/>           Complementing the battery procurements with technical contractual data, NSWC Crane receives sample cells of lead-acid batteries (all types) to perform continuous life testing until complete cell failure. The procedure is beneficial to the Navy since a cause of premature failure may be detected and corrected before the complete batteries are installed. This test program is also used to verify improved operating and maintenance procedures and application of NSSN/SEAWOLF battery technologies to other designs in order to extend service life and reduce the number of battery changeouts (reduced life cycle costs) over the life of the ship.</p> |             |         |  |              |               |               |                                                                            |                            |               |               |             |               |

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

February 2000

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

**SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

FY 00

FY 01

|         |              |        |
|---------|--------------|--------|
| SSN 759 | PEARL HARBOR | Jun 00 |
| SSN 708 | PORTSMOUTH   | Aug 00 |
| SSN 709 | PORTSMOUTH   | Aug 00 |
| SSN 718 | PUGET SOUND  | Sep 00 |
| SSN 717 | PUGET SOUND  | Oct 00 |
| SSN 688 | PEARL HARBOR | Oct 00 |
| SSN 720 | PORTSMOUTH   | Nov 00 |
| SSN 710 | PORTSMOUTH   | Nov 00 |
| SSN 764 | PORTSMOUTH   | Feb 01 |
| SSN 719 | PORTSMOUTH   | Feb 01 |
| SSN 760 | PORTSMOUTH   | Feb 01 |

|         |              |        |
|---------|--------------|--------|
| SSN 721 | PEARL HARBOR | Apr 01 |
| SSN 765 | PORTSMOUTH   | Aug 01 |
| SSN 725 | PEARL HARBOR | Nov 01 |
| SSN 691 | PORTSMOUTH   | Nov 01 |
| SSN 700 | PORTSMOUTH   | Nov 01 |
| SSN 761 | PORTSMOUTH   | Feb 02 |
| SSN 722 | PEARL HARBOR | Mar 02 |
| SSN 766 | PEARL HARBOR | May 02 |
| SSN 723 | PORTSMOUTH   | May 02 |
| SSN 752 | PEARL HARBOR | Jun 02 |

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

DSRV1 & 2 (HM003)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. Silver Zinc Batteries provide the only power source for DSRV 1&2 rescue vehicles, which provide the Navy with a capability for personnel rescue from a disabled submarine. A complete new battery is installed when an operating set reaches the end of its estimated 15 month life cycle.

Procurement Installation on the following Hulls

FY 99

|        |     |                                   |
|--------|-----|-----------------------------------|
| DSRV-1 | DSU | 3 sets/yr at 3-4 months intervals |
| DSRV-2 | DSU | 3 sets/yr at 3-4 months intervals |

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

NR-1 (HM005)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. The NR-1 Silver Zinc battery is a secondary underwater power source. Its function during a military or oceanographic research mission is an emergency source of power in the event of nuclear reactor shut down. A new battery is installed at the end of its 15 month cycle.

Procurement Installation on the following Hull.

| NR-1  | INSTALLING AGENT | DATE    |
|-------|------------------|---------|
| FY 99 | Portsmouth       | JAN 01  |
| FY 00 | Portsmouth       | JUNE 02 |

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

SILVER ZINC EMERGENCY BATTERIES (HM006)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment and are utilized aboard the DSRV 1 & 2 deep submergence vehicles to activate critical components, e.g. release valves and devices, as well as emergency back-up power for the life support systems. Batteries can be installed by ships Force after a 12 month life cycle.

GFE (SILVER)

Silver is required for all DSRV, NR-1 and emergency batteries, and is requisitioned from the governments reclaiming facility.

TRIDENT 1 (HM008)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These are replacement batteries for all Trident class ships. Experience gained with testing at Mare Island Naval Shipyard and on board ship has shown that battery life is determined by total months in service and not total equivalent cycles. Renewal criteria for Trident is based on extensive laboratory/tests and evaluation of available operational data, resulting in an expected wet life of 72 months.

Procurement Installation on the Following Hulls (HM008)

FY 99

|          |           |        |
|----------|-----------|--------|
| SSBN 729 | TRF       | OCT 99 |
| SSBN 742 | Kings Bay | May 99 |

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

FY 00

|          |             |        |
|----------|-------------|--------|
| SSBN 737 | Kings Bay   | Nov 00 |
| SSBN 743 | Kings Bay   | Nov 00 |
| SSBN 736 | Kings Bay   | Nov 00 |
| SSBN 726 | Bangor, TRF | Feb 01 |
| SSBN 731 | Bangor, TRF | Apr 01 |

FY 01

|          |             |        |
|----------|-------------|--------|
| SSBN 738 | Kings Bay   | Aug 01 |
| SSBN 732 | Bangor, TRF | Mar 01 |
| SSBN 727 | Bangor, TRF | Apr 01 |

SEAWOLF (HM009)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These are replacement batteries for SEAWOLF Class ships. Failure analyses of shipboard, and laboratory test cells has resulted in an estimated net service life of 72 months.

Procurement and Installation on the following Hulls (HM009)

FY01

|        |            |        |
|--------|------------|--------|
| SSN 21 | Portsmouth | Jul 01 |
|--------|------------|--------|

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                              |         |                                    | Weapon System |                                                                             |            |          |           |            |          |           | DATE:<br>February 2000 |  |        |
|------------------------------------------------------------------------------------------|------------------------------|---------|------------------------------------|---------------|-----------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------------------|--|--------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                              |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM |            |          |           |            |          |           |                        |  |        |
| COST CODE                                                                                | ELEMENT OF COST              | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                             |            |          |           |            |          |           |                        |  |        |
|                                                                                          |                              |         | Prior Years                        | FY 1999       |                                                                             |            | FY 2000  |           |            | FY 2001  |           |                        |  |        |
|                                                                                          |                              |         | Total Cost                         | Quantity      | Unit Cost                                                                   | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost             |  |        |
|                                                                                          | <u>N87 SUBMARINE WARFARE</u> |         |                                    |               |                                                                             |            |          |           |            |          |           |                        |  |        |
| HM001                                                                                    | GUPPY 1 MOD C (126 CELL)     | A       |                                    |               |                                                                             |            |          |           |            |          |           |                        |  |        |
| HM002                                                                                    | GUPPY 1 MOD E (126 CELL)     | A       |                                    | 7             | 605.7                                                                       | 4,240      | 11       | 623.9     | 6,863      | 10       | 642.6     | 6,426                  |  |        |
| HM003                                                                                    | DSRV 1-2                     | A       |                                    | 3 SETS        | 285.3                                                                       | 856        | 3 SETS   | 291.0     | 856        | 3 SETS   | 299.7     | 899                    |  |        |
| HM003A                                                                                   | (GFE) SILVER                 |         |                                    |               |                                                                             | 232        |          |           | 239        |          |           | 246                    |  |        |
| HM005                                                                                    | NR-1                         | A       |                                    | 1             | 268                                                                         | 268        | 1        | 276       | 276        |          |           |                        |  |        |
| HM005A                                                                                   | (GFE) SILVER                 |         |                                    |               |                                                                             | 75         |          |           | 77         |          |           |                        |  |        |
| HM006                                                                                    | EMERGENCY BATTERIES          | A       |                                    |               |                                                                             |            | 8        | 8.4       | 67         |          |           |                        |  |        |
| HM006A                                                                                   | (GFE) SILVER                 |         |                                    |               |                                                                             |            |          |           | 7          |          |           |                        |  |        |
| HM008                                                                                    | TRIDENT 1 TYPE (126 CELL)    | A       |                                    | 2             | 680.5                                                                       | 1,361      | 5        | 700.9     | 3,505      | 3        | 721.9     | 2,166                  |  |        |
| HM009                                                                                    | SEAWOLF (126 CELL)           |         |                                    |               |                                                                             |            |          |           |            | 1        | 2,000     | 2,000                  |  |        |
| HM830                                                                                    | PRODUCTION ENGINEERING       |         |                                    |               |                                                                             | 1,245      |          |           | 1,138      |          |           | 650                    |  |        |
|                                                                                          |                              |         |                                    |               |                                                                             |            |          |           | 8,277      |          |           | 13,028                 |  | 12,387 |

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CLASSIFICATION:

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                              |                           |                              |           |              |          |           | Weapon System |                                                                                    |               |            |          |           | DATE:<br><b>February 2000</b> |               |      |          |      |  |               |
|--------------------------------------------------------------------------------------------------|---------------------------|------------------------------|-----------|--------------|----------|-----------|---------------|------------------------------------------------------------------------------------|---------------|------------|----------|-----------|-------------------------------|---------------|------|----------|------|--|---------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |                           |                              |           |              |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>Submarine Batteries BLI: 094500 SBHD: 81HM</b> |               |            |          |           |                               |               |      |          |      |  |               |
| COST CODE                                                                                        | ELEMENT OF COST           | FY 2002                      |           |              | FY 2003  |           |               | FY 2004                                                                            |               |            | FY 2005  |           |                               | To Complete   |      | Total    |      |  |               |
|                                                                                                  |                           | Quantity                     | Unit Cost | Total Cost   | Quantity | Unit Cost | Total Cost    | Quantity                                                                           | Unit Cost     | Total Cost | Quantity | Unit Cost | Total Cost                    | Quantity      | Cost | Quantity | Cost |  |               |
|                                                                                                  |                           | <u>N87 SUBMARINE WARFARE</u> |           |              |          |           |               |                                                                                    |               |            |          |           |                               |               |      |          |      |  |               |
| HM002                                                                                            | GUPPY 1 MOD E (126 CELL)  | 8                            | 661.9     | 5,295        | 9        | 681.8     | 6,136         | 11                                                                                 | 702.3         | 7,725      | 9        | 723.4     | 6,511                         |               |      |          |      |  |               |
| HM003                                                                                            | DSRV 1-2                  | 3 SETS                       | 308.7     | 926          | 3 SETS   | 318.0     | 954           | 3 SETS                                                                             | 327.5         | 983        | 3 SETS   | 334.8     | 1,004                         |               |      |          |      |  |               |
| HM003A                                                                                           | (GFE) SILVER              |                              |           | 253          |          |           | 261           |                                                                                    |               | 269        |          |           | 277                           |               |      |          |      |  |               |
| HM005                                                                                            | NR-1                      | 1                            | 293       | 293          | 1        | 302       | 302           | 1                                                                                  | 311           | 311        |          |           |                               |               |      |          |      |  |               |
| HM005A                                                                                           | (GFE) SILVER              |                              |           | 82           |          |           | 85            |                                                                                    |               | 88         |          |           |                               |               |      |          |      |  |               |
| HM006                                                                                            | EMERGENCY BATTERIES       | 8                            | 8.7       | 69           |          |           |               | 5                                                                                  | 9.2           | 46         |          |           |                               |               |      |          |      |  |               |
| HM006A                                                                                           | (GFE) SILVER              |                              |           | 7            |          |           |               |                                                                                    |               | 8          |          |           |                               |               |      |          |      |  |               |
| HM008                                                                                            | TRIDENT 1 TYPE (126 CELL) | 3                            | 743.6     | 2,231        | 2        | 765.9     | 1,532         | 4                                                                                  | 788.8         | 3,155      | 3        | 812.5     | 2,438                         |               |      |          |      |  |               |
| HM009                                                                                            | SEAWOLF (126 CELL)        |                              |           |              | 1        | 2,600     | 2,600         |                                                                                    |               |            | 1        | 2,715     | 2,715                         |               |      |          |      |  |               |
| HM830                                                                                            | PRODUCTION ENGINEERING    |                              |           | 387          |          |           | 1,373         |                                                                                    |               | 920        |          |           | 838                           |               |      |          |      |  |               |
|                                                                                                  |                           |                              |           | <b>9,543</b> |          |           |               |                                                                                    | <b>13,243</b> |            |          |           |                               | <b>13,505</b> |      |          |      |  | <b>13,783</b> |

CLASSIFICATION: **UNCLASSIFIED**

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                       |     |                       |                    |                   | Weapon System                                               |                            | A. DATE       |                              |                           |                            |  |
|----------------------------------------------------------------------------------------------|-----|-----------------------|--------------------|-------------------|-------------------------------------------------------------|----------------------------|---------------|------------------------------|---------------------------|----------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: Ships Support Equipment |     |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br>Submarine Batteries BLI: 094500 |                            |               |                              | February 2000             |                            |  |
|                                                                                              |     |                       |                    |                   |                                                             |                            |               |                              | SUBHEAD                   |                            |  |
| Cost Element/<br>FISCAL YEAR                                                                 | QTY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | IF NO<br>WHEN<br>AVAILABLE |  |
| <u>FY 1999</u>                                                                               |     |                       |                    |                   |                                                             |                            |               |                              |                           |                            |  |
| HM002                                                                                        | 7   | 605.7                 | NAVSEA             |                   | SS/NP                                                       | GNB LOMBARD, ILL           | FEB 99        | JUL 99                       | YES                       |                            |  |
| HM003                                                                                        | 3   | 285.3                 | NAVSEA             |                   | COMP                                                        | UNKNOWN                    | JAN 99        | JAN 00                       | YES                       |                            |  |
|                                                                                              |     |                       |                    |                   |                                                             |                            |               |                              | YES                       |                            |  |
| HM005                                                                                        | 1   | 268                   | NAVSEA             |                   | COMP                                                        | UNKNOWN                    | JAN 99        | JAN 00                       | YES                       |                            |  |
| HM008                                                                                        | 2   | 680.5                 | NAVSEA             |                   | OPTION                                                      | GNB LOMBARD, ILL           | NOV 98        | APR 99                       | YES                       |                            |  |
| D. REMARKS                                                                                   |     |                       |                    |                   |                                                             |                            |               |                              |                           |                            |  |

CLASSIFICATION: **UNCLASSIFIED**

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                       |     |                       |                    |                   | Weapon System                                               |                            | A. DATE       |                              |                           |                            |
|----------------------------------------------------------------------------------------------|-----|-----------------------|--------------------|-------------------|-------------------------------------------------------------|----------------------------|---------------|------------------------------|---------------------------|----------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: Ships Support Equipment |     |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br>Submarine Batteries BLI: 094500 |                            |               |                              | February 2000             |                            |
|                                                                                              |     |                       |                    |                   |                                                             |                            |               |                              | SUBHEAD                   |                            |
| Cost Element/<br>FISCAL YEAR                                                                 | QTY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | IF NO<br>WHEN<br>AVAILABLE |
| <u>FY 2000</u>                                                                               |     |                       |                    |                   |                                                             |                            |               |                              |                           |                            |
| HM002                                                                                        | 11  | 623.9                 | NAVSEA             |                   | OPTION                                                      | GNB LOMBARD, ILL.          | DEC 99        | APR 00                       | YES                       |                            |
| HM003                                                                                        | 3   | 291.0                 | NAVSEA             |                   | OPTION                                                      | UNKNOWN                    | DEC 99        | DEC 00                       | YES                       |                            |
| HM005                                                                                        | 1   | 276.0                 | NAVSEA             |                   | OPTION                                                      | UNKNOWN                    | DEC 99        | DEC 00                       | YES                       |                            |
| HM006                                                                                        | 8   | 8.4                   | NAVSEA             |                   | OPTION                                                      | UNKNOWN                    | DEC 99        | DEC 00                       | YES                       |                            |
| HM008                                                                                        | 5   | 700.9                 | NAVSEA             |                   | C/NP                                                        | UNKNOWN                    | APR 00        | OCT 00                       | YES                       |                            |
| <u>FY 2001</u>                                                                               |     |                       |                    |                   |                                                             |                            |               |                              |                           |                            |
| HM002                                                                                        | 10  | 642.6                 | NAVSEA             |                   | SS/NP                                                       | UNKNOWN                    | DEC 00        | APR 01                       | YES                       |                            |
| HM003                                                                                        | 3   | 299.7                 | NAVSEA             |                   | COMP                                                        | UNKNOWN                    | JAN 01        | SEP 01                       | YES                       |                            |
| HM008                                                                                        | 3   | 721.9                 | NAVSEA             |                   | OPTION                                                      | UNKNOWN                    | DEC 00        | JUN 01                       | YES                       |                            |
| HM009                                                                                        | 1   | 2,000                 | NAVSEA             |                   | C/NP                                                        | UNKNOWN                    | APR 01        | DEC 01                       | YES                       |                            |
| D. REMARKS                                                                                   |     |                       |                    |                   |                                                             |                            |               |                              |                           |                            |

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| BUDGET ITEM JUSTIFICATION SHEET                                                                                              |             |         |  |  |         |         |                                              |         |         | DATE:         |         |             |       |
|------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--|--|---------|---------|----------------------------------------------|---------|---------|---------------|---------|-------------|-------|
| P-40                                                                                                                         |             |         |  |  |         |         |                                              |         |         | February 2000 |         |             |       |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                |             |         |  |  |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #            |         |         |               |         |             |       |
| <b>OTHER PROCUREMENT, NAVY</b>                                                                                               |             |         |  |  |         |         | <b>SSN 21 Class Support Equipment (0949)</b> |         |         |               |         |             |       |
| <b>BA-1: Ships Support Equipment</b>                                                                                         |             |         |  |  |         |         | OTHER RELATED PROGRAM ELEMENTS               |         |         |               |         |             |       |
| Program Element for Code B Items:                                                                                            |             |         |  |  |         |         | N/A                                          |         |         |               |         |             |       |
| N/A                                                                                                                          |             |         |  |  |         |         | N/A                                          |         |         |               |         |             |       |
|                                                                                                                              | Prior Years | ID Code |  |  | FY 1999 | FY 2000 | FY 2001                                      | FY 2002 | FY 2003 | FY 2004       | FY 2005 | To Complete | Total |
| QUANTITY                                                                                                                     |             |         |  |  |         |         |                                              |         |         |               |         |             | 0     |
| EQUIPMENT COST<br>(In Millions)                                                                                              |             | A       |  |  | \$15.3  | \$0.0   | \$0.0                                        | \$0.0   | \$0.0   | \$0.0         | \$0.0   | \$0.0       | 15.3  |
| SPARES COST<br>(In Millions)                                                                                                 |             |         |  |  |         |         |                                              |         |         |               |         |             | 0     |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                    |             |         |  |  |         |         |                                              |         |         |               |         |             |       |
| <p>Starting with the FY2000 budget, this program was consolidated into the Submarine Support Equipment program - 094100.</p> |             |         |  |  |         |         |                                              |         |         |               |         |             |       |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |         |         |         |         | DATE:<br>February 2000                                                       |         |         |         |             |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|---------|---------|---------|------------------------------------------------------------------------------|---------|---------|---------|-------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY - (BA-1) Ship Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |         |         |         |         | P-1 ITEM NOMENCLATURE<br><b>Strategic Platform Support Equipment/#095000</b> |         |         |         |             |        |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |         |         |         |         | Other Related Program Elements                                               |         |         |         |             |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prior Years | ID Code | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002                                                                      | FY 2003 | FY 2004 | FY 2005 | To Complete | Total  |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |         |         |         |                                                                              |         |         |         |             |        |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | A       |         | \$10.1  | \$20.9  | \$6.2   | \$11.3                                                                       | \$11.8  | \$12.1  | \$12.4  |             | \$84.8 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |         |         |         |         |                                                                              |         |         |         |             | \$0.0  |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |         |         |         |                                                                              |         |         |         |             |        |
| <p>Funding in this P-1 line provides for the procurement of tactical Hull, Mechanical and Electrical (HM&amp;E) equipment that will be installed aboard ships and in the facilities at the TRIDENT Refit Facility (TRIREFFAC) and TRIDENT Training Facility (TRITRAFAC). The TRIDENT Refit Facility is a dedicated shore support facility providing a full range of industrial support. Unlike many other programs, TRIDENT does not use tenders for industrial support, but rather depends upon the TRIREFFAC for a full range of maintenance functions. The TRITRAFAC provides the crews for the SSBN 726 Class Submarines with realistic training experience in operating and maintaining shipboard equipment.</p> <p>TRIPER ASSETS (HM&amp;E) - In order to achieve the required operational availability and not exceed a specific Engineered Availability (EA) Period, a planned, progressive incremental overhaul of the submarine is accomplished utilizing the TRIDENT PLANNED EQUIPMENT REPLACEMENT (TRIPER) Program's inventory of pretested, prestaged ready for issue equipments. TRIPER stock levels are calculated as functions of equipment change out dates, procurement lead times, repair turn around times, equipment recoverability, equipment population and safety level requirements.</p> <p>HM&amp;E AND STRATEGIC WEAPONS SYSTEMS/SUPPORT SUBSYSTEM (SWS/SS) ALTERATIONS - This provides for the replacement of obsolete equipment on board of SSBN 726 Class Submarines and at dedicated Shore Support Facilities (TLCSF, TRITRAFAC (B), TRIREFFAC (B), TRITRAFAC (KB), TRIREFFAC (KB), Major Shore Spares (MSS)). These alterations are necessary in order to replace obsolete/outdated equipments with new equipments to maintain or increase mission capabilities, replace or modify components/systems which have proven to be unreliable, correct design and safety problems and reduce fleet maintenance burdens. It provides for installation of Noise Quieting Equipment and system/hull modification to reduce noise transmission to meet Submarine Silencing goals. Alterations and actions are done at the lowest practicable and authorized level (taking into consideration urgency, priority, capability, capacity and cost). Alterations to SSBN 726 Class Submarines are scheduled for accomplishment at the TRIREFFACs. This requires equipment procurement and installation, technical planning, training, and associated resources. This line provides for material procurement necessary to install the required alterations to SSBN 726 Class Submarines at the TRIREFFAC, Bangor, and the TRIREFFAC, Kings Bay. Additionally, this line provides for the utilization of specially trained and dedicated installation teams to ensure accelerated and correct installation of complex and high priority alterations within specific timeframes. Provided are comprehensive program management and execution, including planning, direction, control, installation, integration, and coordination of specifically selected safety related, mission enhancement or technical HM&amp;E alterations.</p> |             |         |         |         |         |         |                                                                              |         |         |         |             |        |

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY - (BA-1) Ship Support Equipment**

P-1 ITEM NOMENCLATURE

**Strategic Platform Support Equipment/#095000**

TRIDENT ENGINEERED AVAILABILITY (EA) - TRIDENT EA material support funding is required to provide replacement and contingency material to support the critical path schedule during the SSBN 726 Class Submarine Engineered Availabilities (EAs) commencing in FY93 and continuing through the operational life of the submarine. This equipment is separate and exclusive of TRIPER program equipment. Funding is also required to formulate or procure complex tools and fixtures required to reduce EA scheduled durations. This program also provides funding for installation of Depot level alterations packages.

HM&E MODERNIZATION KITS - Accomplishes alterations and actions at the lowest practicable and authorized level (taking into consideration urgency, priority, capability, capacity and cost). Alterations, and upgrades to SSBN 726 Class Submarines are scheduled for accomplishment at the TRIREFFACs. This requires equipment procurement and installation, technical planning, training, and associated resources. This line provides for material procurement necessary to install the required alterations to SSBN 726 Class Submarines at the TRIREFFAC, Bangor, and the TRIREFFAC, Kings Bay. Note: This line was to be phased out effective FY98. This project unit is now being used for the placement of the AN/UYQ-70 Display Program that was placed within the TRIDENT (BA1) account. The FY98 and FY00 Congressional Funding Plus-up for AN/UYQ-70 is to be used for computer workstation procurement.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION **UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                    |         |                                    |          |           | Weapon System |                                                                            |           |            |          |               | DATE:<br>February 2000 |          |               |            |  |              |
|------------------------------------------------------------------------------------------|------------------------------------|---------|------------------------------------|----------|-----------|---------------|----------------------------------------------------------------------------|-----------|------------|----------|---------------|------------------------|----------|---------------|------------|--|--------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1: Ship Support Equipment |                                    |         |                                    |          |           | ID Code<br>A  | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Strategic Platform Support Equipment/81HH |           |            |          |               |                        |          |               |            |  |              |
| COST CODE                                                                                | ELEMENT OF COST                    | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |               |                                                                            |           |            |          |               |                        |          |               |            |  |              |
|                                                                                          |                                    |         | Prior Years                        | FY 1998  |           |               | FY 1999                                                                    |           |            | FY 2000  |               |                        | FY 2001  |               |            |  |              |
|                                                                                          |                                    |         | Total Cost                         | Quantity | Unit Cost | Total Cost    | Quantity                                                                   | Unit Cost | Total Cost | Quantity | Unit Cost     | Total Cost             | Quantity | Unit Cost     | Total Cost |  |              |
|                                                                                          | <u>N871</u>                        |         |                                    |          |           |               |                                                                            |           |            |          |               |                        |          |               |            |  |              |
| HH007                                                                                    | Equipment TRIPER Assets            | A       |                                    |          |           |               |                                                                            |           |            |          | 361           |                        |          | 451           |            |  | 179          |
| HH009                                                                                    | Equipment HM&E & SWS/SS Alteration | A       |                                    |          |           |               |                                                                            |           |            |          | 4,845         |                        |          | 0             |            |  | 27           |
| HH012                                                                                    | Equipment HM&E TRIDENT EA          | A       |                                    |          |           |               |                                                                            |           |            |          | 4,890         |                        |          | 5,502         |            |  | 6,000        |
| HH017                                                                                    | Equipment HM&E Modernization Kits  | A       |                                    |          |           |               |                                                                            |           |            |          | 0             |                        |          | 15,000        |            |  | 0            |
|                                                                                          |                                    |         | <b>0</b>                           |          |           | <b>0</b>      |                                                                            |           |            |          | <b>10,096</b> |                        |          | <b>20,953</b> |            |  | <b>6,206</b> |

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO.

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PAGE NO. 3

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS  |                                    |          |           | Weapon System |          |                                           |               |          |           |               |          | DATE:         |               |             |          |          |               |
|-------------------------------|------------------------------------|----------|-----------|---------------|----------|-------------------------------------------|---------------|----------|-----------|---------------|----------|---------------|---------------|-------------|----------|----------|---------------|
| P-5                           |                                    |          |           |               |          |                                           |               |          |           |               |          | February 2000 |               |             |          |          |               |
| APPROPRIATION/BUDGET ACTIVITY |                                    |          |           | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD             |               |          |           |               |          |               |               |             |          |          |               |
| Other Procurement, Navy       |                                    |          |           | A             |          | Strategic Platform Support Equipment/81HH |               |          |           |               |          |               |               |             |          |          |               |
| BA-1: Ship Support Equipment  |                                    |          |           |               |          |                                           |               |          |           |               |          |               |               |             |          |          |               |
| COST CODE                     | ELEMENT OF COST                    | FY 2002  |           |               | FY 2003  |                                           |               | FY 2004  |           |               | FY 2005  |               |               | To Complete |          | Total    |               |
|                               |                                    | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost                                 | Total Cost    | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost     | Total Cost    | Quantity    | Cost     | Quantity | Cost          |
|                               |                                    |          |           |               |          |                                           |               |          |           |               |          |               |               |             |          |          |               |
|                               | <u>N871</u>                        |          |           |               |          |                                           |               |          |           |               |          |               |               |             |          |          |               |
| HH007                         | Equipment TRIPER Assets            |          |           | 500           |          |                                           | 416           |          |           | 503           |          |               | 38            |             |          |          | 2448          |
| HH009                         | Equipment HM&E & SWS/SS Alteration |          |           | 5875          |          |                                           | 6,401         |          |           | 5,722         |          |               | 5,743         |             |          |          | 28613         |
| HH012                         | Equipment HM&E TRIDENT EA          |          |           | 4889          |          |                                           | 5,000         |          |           | 5,865         |          |               | 6,591         |             |          |          | 38737         |
| HH017                         | Equipment HM&E Modernization Kits  |          |           | 0             |          |                                           | 0             |          |           | 0             |          |               | 0             |             |          |          | 15000         |
|                               |                                    |          |           | <b>11,264</b> |          |                                           | <b>11,817</b> |          |           | <b>12,090</b> |          |               | <b>12,372</b> |             | <b>0</b> |          | <b>84,798</b> |

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) |          |                       |                    |                   | Weapon System                               |                            |               | A. DATE                      |                           |                                |
|--------------------------------------------------------|----------|-----------------------|--------------------|-------------------|---------------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
|                                                        |          |                       |                    |                   |                                             |                            |               | <b>February 2000</b>         |                           |                                |
| B. APPROPRIATION/BUDGET ACTIVITY                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE                    |                            |               |                              | SUBHEAD                   |                                |
| <b>Other Procurement, Navy</b>                         |          |                       |                    |                   | <b>Strategic Platform Support Equipment</b> |                            |               |                              |                           |                                |
| <b>BA-1: Ship Support Equipment</b>                    |          |                       |                    |                   | <b>HH007 TRIPER Assets</b>                  |                            |               |                              | <b>81HH</b>               |                                |
| Cost Element/<br>FISCAL YEAR                           | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>Fiscal Year (98)</u></b>                         |          |                       |                    |                   |                                             |                            |               |                              |                           |                                |
| <b><u>Fiscal Year (99)</u></b>                         |          |                       |                    |                   |                                             |                            |               |                              |                           |                                |
| Periscope Hoist Cylinder                               | 2        | \$30.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| Hydraulic Cylinder, Nav Sat                            | 1        | \$186.00              | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| Trim & Drain Acuator, Rotary                           | 2        | \$14.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| Valve, Linear, Direct                                  | 2        | \$18.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| Cyclic Brine Speed Gear Assy                           | 1        | \$10.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| Cyclic Brine Speed Gear Assy                           | 1        | \$10.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| Cyclic Brine Valve/Gear Motor                          | 1        | \$10.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| MCC Fan                                                | 1        | \$21.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/99          | 12/99                        | Yes                       |                                |
| <b><u>Fiscal Year (00)</u></b>                         |          |                       |                    |                   |                                             |                            |               |                              |                           |                                |
| CO2 Scrubber Skid B                                    | 2        | \$225.50              | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/00          | 12/00                        | Yes                       |                                |
| <b><u>Fiscal Year (01)</u></b>                         |          |                       |                    |                   |                                             |                            |               |                              |                           |                                |
| Compressor Unit, Cen                                   | 1        | \$100.00              | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/01          | 12/01                        | Yes                       |                                |
| Valve, Linear, Direct                                  | 2        | \$17.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/01          | 12/01                        | Yes                       |                                |
| Valve, Solenoid                                        | 1        | \$45.00               | NAVSEA             | N/A               | Allotment                                   | NAVICP, Mechanicsburg, PA  | 2/01          | 12/01                        | Yes                       |                                |
| D. REMARKS                                             |          |                       |                    |                   |                                             |                            |               |                              |                           |                                |

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                                                                    |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------------------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: Ship Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Strategic Platform Support Equipment<br/>HH009 HM&amp;E and SWS/SS Alteration</b> |                            |               |                                 | SUBHEAD<br><b>81HH</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                                                     | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>Fiscal Year (98)</u></b>                                                                      |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| <b><u>Fiscal Year (99)</u></b>                                                                      |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| ARC Fault Detector Sys. Improvement                                                                 | *        | \$990.00              | NAVSEA             | N/A               | WR                                                                                                               | NSWC CD, Bethesda MD       | 1/99          | 9/99                            | Yes                       |                                |
| Submarine Conference HM&E Alterations                                                               | **       | \$847.00              | NAVSEA             | N/A               | CPFF                                                                                                             | EB Corp./Groton, CT        | 2/99          | 9/99                            | Yes                       |                                |
| Low Sensitivity Rotor (LSR) Install                                                                 | 2        | \$544.50              | NAVSEA             | N/A               | CPFF                                                                                                             | EB Corp./Groton, CT        | 2/99          | 6/99                            | Yes                       |                                |
| OK-542 Towed Array Handling Sys.                                                                    | *        | \$865.00              | NAVSEA             | N/A               | WR                                                                                                               | NUWC Newport, RI           | 2/99          | 8/99                            | Yes                       |                                |
| BQR-15 SPALT 9080 ISEA/Depot                                                                        | 1        | \$100.00              | NAVSEA             | N/A               | PD                                                                                                               | SPAWAR SD, CA              | 6/99          | 8/99                            | Yes                       |                                |
| BQR-15 SPALT 9080 ISEA/Depot                                                                        | 1        | \$50.00               | NAVSEA             | N/A               | WR                                                                                                               | SPAWAR CH, SC              | 5/99          | 8/99                            | Yes                       |                                |
| Self Contained Breathing Apparatus                                                                  | 280      | \$2.30                | NAVSEA             | N/A               | FFP                                                                                                              | Scott Aviation Monroe, NC  | 7/99          | 8/99                            | Yes                       |                                |
| NC Deferral                                                                                         | 1        | \$260.00              |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| <b><u>Fiscal Year (00)</u></b>                                                                      |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| None                                                                                                |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| <b><u>Fiscal Year (01)</u></b>                                                                      |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| Submarine Conference HM&E Alterations                                                               | **       | \$27.00               | NAVSEA             | N/A               | CPFF                                                                                                             | EB Corp./Groton, CT        | 12/00         | 9/01                            | Yes                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| * A variety of hardware procured at different quantities.                                           |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| ** Based on Approved Submarine Mod priority list for alterations.                                   |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |
| *** Bulk Material.                                                                                  |          |                       |                    |                   |                                                                                                                  |                            |               |                                 |                           |                                |

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                                                                     |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: Ship Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Strategic Platform Support Equipment<br/>HH012 TRIDENT Engineered Availability</b> |                            |               |                                 | SUBHEAD<br><b>81HH</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                                                      | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><i>Fiscal Year (98)</i></b>                                                                      |          |                       |                    |                   |                                                                                                                   |                            |               |                                 |                           |                                |
| <b><i>Fiscal Year (99)</i></b>                                                                      |          |                       |                    |                   |                                                                                                                   |                            |               |                                 |                           |                                |
| EA Prod Engr & Mgmt/Material                                                                        | 1        | \$3,916.70            | NAVSEA             | N/A               | WR                                                                                                                | PSNS/Bremerton, WA         | 2/99          | 8/99                            | Yes                       |                                |
| EA Advanced Planning (SSBN 732)                                                                     | 1        | \$500.00              | NAVSEA             | N/A               | CPFF                                                                                                              | EB Corp./Groton, CT        | 2/99          | 8/99                            | Yes                       |                                |
| EA OK-276T Overhaul (SSBN 731)                                                                      | 1        | \$276.00              | NAVSEA             | N/A               | WR                                                                                                                | NUWC Newport, RI           | 2/99          | 8/99                            | Yes                       |                                |
| EA Mod/Test Planning (732-733)                                                                      | 1        | \$197.00              | NAVSEA             | N/A               | WR                                                                                                                | NUWC Newport, RI           | 8/99          | 12/99                           | Yes                       |                                |
| <b><i>Fiscal Year (00)</i></b>                                                                      |          |                       |                    |                   |                                                                                                                   |                            |               |                                 |                           |                                |
| CCS C4 to D5 Conversion                                                                             | 1        | \$5,022.00            | NAVSEA             | N/A               | WR                                                                                                                | PSNS/Bremerton, WA         | 12/99         | 6/00                            | Yes                       |                                |
| EA Advanced Planning (SSBN 733)                                                                     | 1        | \$480.00              | NAVSEA             | N/A               | CPFF                                                                                                              | EB Corp./Groton, CT        | 2/00          | 6/00                            | Yes                       |                                |
| <b><i>Fiscal Year (01)</i></b>                                                                      |          |                       |                    |                   |                                                                                                                   |                            |               |                                 |                           |                                |
| CCS C4 to D5 Conversion                                                                             | 1        | \$5,500.00            | NAVSEA             | N/A               | WR                                                                                                                | PSNS/Bremerton, WA         | 12/00         | 6/01                            | Yes                       |                                |
| EA Advanced Planning (SSBN 734)                                                                     | 1        | \$500.00              | NAVSEA             | N/A               | CPFF                                                                                                              | EB Corp./Groton, CT        | 2/01          | 6/01                            | Yes                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                                                                   |                            |               |                                 |                           |                                |

# UNCLASSIFIED

CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                                                                         |          |                       |                    |                   | Weapon System                                                                                                 |                                      | A. DATE<br><b>February 2000</b> |                              |                           |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1: Ship Support Equipment</b>                                            |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Strategic Platform Support Equipment<br/>HH017 HM&amp;E Modernization Kits</b> |                                      |                                 |                              | SUBHEAD<br><b>81HH</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                                                                   | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                                                  | CONTRACTOR<br>AND LOCATION           | AWARD<br>DATE                   | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>Fiscal Year (98)</u></b>                                                                                                                 |          |                       |                    |                   |                                                                                                               |                                      |                                 |                              |                           |                                |
| <b><u>Fiscal Year (99)</u></b><br>None                                                                                                         |          |                       |                    |                   |                                                                                                               |                                      |                                 |                              |                           |                                |
| <b><u>Fiscal Year (00)</u></b><br>AN/UYQ-70 Display                                                                                            |          |                       |                    |                   |                                                                                                               |                                      |                                 |                              |                           |                                |
|                                                                                                                                                | *        | \$15,000.00           | NAVSEA             | N/A               | CPIF/FPR                                                                                                      | Lockheed Martin, LMTDS/<br>Eagan, MN | 1/94                            | **                           | Yes                       |                                |
| <b><u>Fiscal Year (01)</u></b><br>None                                                                                                         |          |                       |                    |                   |                                                                                                               |                                      |                                 |                              |                           |                                |
| D. REMARKS<br>* A variety of H/W procured at different quantities.<br>** Funding currently on Deferral, delivery 3-6 months after procurement. |          |                       |                    |                   |                                                                                                               |                                      |                                 |                              |                           |                                |

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Ship Service Turbine Generator (SSTG) TYPE MODIFICATION: Obsolete Equipment Replacement MODIFICATION TITLE: Low Sensitivity Rotors

DESCRIPTION/JUSTIFICATION:

The Low Sensitivity Rotors (LSR) replaces obsolete SSTG components to increase system reliability and increase platform acoustic advantage through increased system quieting.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

|                                     | FY 1997 & Prior |             | FY 1998  |            | FY 1999  |            | FY 2000  |            | FY 2001  |            | FY 2002  |             | FY 2003  |             | FY 2004  |             | FY 2005  |             | TC       |              | TOTAL     |             |      |
|-------------------------------------|-----------------|-------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|--------------|-----------|-------------|------|
|                                     | QTY             | \$          | QTY      | \$         | QTY      | \$         | QTY      | \$         | QTY      | \$         | QTY      | \$          | QTY      | \$          | QTY      | \$          | QTY      | \$          | QTY      | \$           | QTY       | \$          |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             |      |
| <u>RDT&amp;E</u>                    |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           | 0           | 0.0  |
| <u>PROCUREMENT</u>                  |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             |      |
| INSTALLATION KITS                   |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           | 0           | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             |      |
| INSTALLATION KITS NONRECURRING      |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.0  |
| EQUIPMENT                           | 2               | 7.71        |          |            |          |            |          |            |          | 1          | 3.42     | 1           | 3.49     | 1           | 3.57     | 1           | 3.65     | 3           | 11.20    |              | 9         | 33.04       |      |
| EQUIPMENT NONRECURRING              |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.0  |
| DATA                                |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.0  |
| TRAINING EQUIPMENT                  |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           | 0           | 0.0  |
| SUPPORT EQUIPMENT                   |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           | 0           | 0.00 |
| OTHER <b>LLTM Note 1</b>            | 3               | 2.20        |          |            |          |            |          |            |          | 1          | 0.92     | 1           | 0.94     | 1           | 0.96     | 1           | 0.98     | 2           | 2.00     |              | 9         | 8.00        |      |
| OTHER                               |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.00 |
| OTHER                               |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |             |          |            |          |            |          |            |          |            |          |             |          |             |          |             |          |             |          |              |           |             | 0.0  |
| INSTALL COST                        |                 |             |          |            | 2        | 1.13       |          |            |          |            |          |             | 1        | 1.24        | 1        | 1.19        | 1        | 1.22        | 3        | 3.78         |           | 8           | 8.56 |
| <b>TOTAL PROCUREMENT</b>            | <b>5</b>        | <b>9.91</b> | <b>0</b> | <b>0.0</b> | <b>0</b> | <b>0.0</b> | <b>0</b> | <b>0.0</b> | <b>0</b> | <b>0.0</b> | <b>2</b> | <b>4.34</b> | <b>2</b> | <b>4.43</b> | <b>2</b> | <b>4.53</b> | <b>2</b> | <b>4.63</b> | <b>5</b> | <b>13.20</b> | <b>18</b> | <b>41.0</b> |      |

**Note 1:** Long Lead Time Material (LLTM) is procured and incorporated into LSR shipset prior to installation. No related installation cost for LLTM.

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SSTG MODIFICATION TITLE: Low Sensivity Rotor (LSR)

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: Tiger Team/TRIDENT Refit Facility 19.5 Months w/o LLTM procured in advance  
 ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 13.5 Months w/o LLTM procured in advance  
 CONTRACT DATES: FY 1999: 12/98 FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: 6/99 FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    | 2       | 1.1 |         |    |         |    |         |    |         |    |         |    |         |    |             |    | 2     | 1.1 |
| FY 1998 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         | 1  | 1.2     |    |         |    |         |    |             |    | 1     | 1.2 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         | 1  | 1.2     |    |         |    |             |    | 1     | 1.2 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         | 1  | 1.2     |    |             |    | 1     | 1.2 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     |                    | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |         |   |   |   |    |       |
| In  | 0                  | 1       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 1 | 0 | 0       | 0 | 1 | 0 | 1       | 0 | 0 | 3 | 8  |       |
| Out | 0                  | 0       | 1 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 1 | 0 | 0       | 1 | 0 | 0 | 1       | 0 | 3 | 8 |    |       |

P-3A

CLASSIFICATION:

**UNCLASSIFIED**

|                                                       |                               |
|-------------------------------------------------------|-------------------------------|
| <b>BUDGET ITEM JUSTIFICATION SHEET</b><br><b>P-40</b> | DATE:<br><b>FEBRUARY 2000</b> |
|-------------------------------------------------------|-------------------------------|

|                                                                                              |                                                                       |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b> | P-1 ITEM NOMENCLATURE<br><b>DSSP EQUIPMENT BLI: 095500 SBHD: 81HJ</b> |
| Program Element for Code B Items:                                                            | Other Related Program Elements                                        |

|                              | Prior Years | ID Code |  | FY 1999       | FY 2000      | FY 2001      | FY 2002      | FY 2003      | FY 2004      | FY 2005      | To Complete | Total         |
|------------------------------|-------------|---------|--|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|
| QUANTITY                     |             |         |  |               |              |              |              |              |              |              |             |               |
| COST<br>(In Millions)        |             |         |  | <b>\$10.3</b> | <b>\$7.9</b> | <b>\$5.4</b> | <b>\$6.4</b> | <b>\$4.5</b> | <b>\$4.6</b> | <b>\$8.0</b> |             | <b>\$47.1</b> |
| SPARES COST<br>(In Millions) |             |         |  |               |              |              |              |              |              |              |             |               |

The Deep Submergence Systems Program (DSSP) is responsible for the procurement, life cycle support, and improvement and modernization of assigned platforms and programs. The DSSP program provides for the procurement of equipment to support the establishment and maintenance of fleet capability for a number of programs which perform submarine research and rescue, inspection, object location and retrieval from the ocean environment, and research and scientific exploration missions. DSSP procurements replace obsolete, non-supportable equipment and subsystems through phased improvement and modernization projects. These projects may include special ship alterations, field change kits, and design corrections. DSSP systems include:

**DEEP SUBMERGENCE RESCUE VEHICLES (DSRV) (HJ010)**

The DSRVs provide the fleet with a world-wide capability to rescue personnel from submarines disabled on the ocean floor. These funds procure field changes and modernized subsystems for the operating DSRVs MYSTIC (DSRV-1) and AVALON (DSRV-2). Since there are only two DSRVs, one of which must be on 24-hour alert-ready status to respond to a submarine rescue mission anywhere in the world, their reliability and maintainability (minimum down-time) are key to mission readiness, response time, and operational safety. The resolution of equipment deficiencies necessitates that the highest priority field changes/modernization's be completed each fiscal year.

**SUBMARINE NR-1 (HJ020)**

The NR-1 is a unique, one-of-a-kind nuclear-powered research and ocean engineering submarine designed for extended search, object recovery, device implantment and submerged repair, and oceanographic research missions. Its research capabilities include ocean topography and geology, and it is capable of on-site data collection on the thermal optical, biological, and acoustic environments of the deep ocean. The NR-1 is equipped with several special systems which provide the capability to perform a number of military and scientific missions, and it has been successful in recovering items of high military value from the ocean floor. (For example, the NR-1 was an important element of the space shuttle "Challenger" recovery operations.) NR-1 is also fitted with special devices, such as an external manipulator arm, to enable it to recover objects on the ocean floor. The service life of NR-1 has been extended to 2012 which will require future replacement of obsolete equipment.

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**

P-1 ITEM NOMENCLATURE

**DSSP EQUIPMENT BLI: 095500 SBHD: 81HJ**

**UNMANNED VEHICLE SYSTEMS (HJ060)**

The Tethered Unmanned Work Vehicle System (TUWVS) provides operational forces with an effective means of conducting ocean bottom searches, inspections, object recovery, and work operations to a depth of 5,000 feet. The Advanced Tethered Vehicle, which is cable-controlled, can perform these same operations to depths of 20,000 feet. The Deep Side Looking Sonar (DSILO) and Side Looking Sonar (SILOS) are being replaced by the Klein 2000 which will be operated and maintained by the unmanned vehicle detachment.

**SUBMARINE RESCUE CHAMBERS (HJ080)**

Provides world-wide capability to rescue personnel from submarines disabled on the ocean floor. SRCs can carry 6 rescuees per trip as compared to 24 on DSRVs. These units are 50 year old technology, simple but effective. The retirement of the ASR Class Submarine Rescue Ships requires two fly-away SRC rescue kits in FY 1996.

**ADS (Hardsuit 2000) (HJ090)**

The ADS is a component of the Submarine Rescue Diving and Recompression System (SRDRS). This modified COTS one-man, one atmosphere diving system will also provide world-wide capability in support of Submarine Rescue Chambers (SRC) mission.

ADS will be used to clear disabled submarines' seating surfaces, attach the SRC downhaul cable and attach salvage fittings.

**SUBMARINE ESCAPE & IMMERSION EQUIPMENT (HJ100)**

The SEIE is used by a submariner to escape from a disabled submarine and survive on the surface until rescued. The system, which is being adapted from a British design, includes the escape suit, inner thermal suit and a single person life raft, all packaged as a unit onboard the submarine. This is a safety/survival appliance that is vastly superior to the current Stienke Hood escape appliance onboard USN submarines, which has reached obsolescence and has become a maintenance burden to the fleet. The SEIE increases the escape depth to 600 FSW and provides thermal protection to the user from hypothermia.

**EQUIPMENT INSTALLATION (HJINS)**

These funds are for the installation of DSSP equipment, as well as the training equipment and items which support shore facilities.

**SOURCES:**

The sources for these acquisitions are limited. There are few private companies actively engaged in deep ocean engineering and even fewer with the specialized experience, knowledge, and facilities to meet the exacting requirements of the DSSP programs. Accordingly, sole source contracts are typically required with LESC, CSDL, and LMTDS to continue their support of the various DSSP programs. Where possible, contracting via open competition is utilized.

**REFERENCES:**

Acquisition Plans 584-87 Revision 6 approved 14 February 1997.

P-1 SHOPPING LIST

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CLASSIFICATION:

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                          |         |                                    | Weapon System |                                                                        |            |          |           |            |          |           |            | DATE:<br>FEBRUARY 2000 |           |            |
|------------------------------------------------------------------------------------------|------------------------------------------|---------|------------------------------------|---------------|------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------|------------------------|-----------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                          |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>DSSP EQUIPMENT BLI: 095500 SBHD: 81HJ |            |          |           |            |          |           |            |                        |           |            |
| COST CODE                                                                                | ELEMENT OF COST                          | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                        |            |          |           |            |          |           |            |                        |           |            |
|                                                                                          |                                          |         | Prior Years                        | FY 1998       |                                                                        |            | FY 1999  |           |            | FY 2000  |           |            | FY 2001                |           |            |
|                                                                                          |                                          |         | Total Cost                         | Quantity      | Unit Cost                                                              | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity               | Unit Cost | Total Cost |
| HJ010                                                                                    | RESCUE/DSRV                              | A       |                                    |               |                                                                        |            |          |           | 2,176      |          |           | 917        |                        |           | 183        |
| HJ020                                                                                    | NR-1                                     | A       |                                    |               |                                                                        |            |          | 884       |            |          | 816       |            |                        | 239       |            |
| HJ060                                                                                    | UNMANNED VEHICLE SYSTEMS                 | A       |                                    |               |                                                                        |            |          | 430       |            |          | 500       |            |                        | 300       |            |
| HJ080                                                                                    | SUBMARINE RESCUE CHAMBER                 | A       |                                    |               |                                                                        |            |          | 64        |            |          | 0         |            |                        | 0         |            |
| HJ090                                                                                    | ADS                                      | A       |                                    |               |                                                                        |            |          | 547       |            |          | 165       |            |                        | 172       |            |
| HJ100                                                                                    | SUBMARINE ESCAPE AND IMMERSION EQUIPMENT | A       |                                    |               |                                                                        |            |          | 3,995     |            |          | 3,846     |            |                        | 3,291     |            |
|                                                                                          | MATERIAL TOTAL                           |         |                                    |               |                                                                        |            |          | 8,096     |            |          | 6,244     |            |                        | 4,185     |            |
| HJINS                                                                                    | EQUIPMENT INSTALLATION (FMP)             | A       |                                    |               |                                                                        |            |          | 2,222     |            |          | 1,700     |            |                        | 1,171     |            |
|                                                                                          | (NON-FMP)                                |         |                                    |               |                                                                        |            |          | 821       |            |          | 1,012     |            |                        | 792       |            |
|                                                                                          |                                          |         |                                    |               |                                                                        |            |          | 1,401     |            |          | 688       |            |                        | 379       |            |
|                                                                                          |                                          |         | 0                                  |               |                                                                        | 0          |          | 10,318    |            |          | 7,944     |            |                        | 5,356     |            |

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CLASSIFICATION:

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                          |          |           |              |          |           | Weapon System |              |                                                                        |            |          |              | DATE:<br>FEBRUARY 2000 |             |      |              |      |  |  |
|------------------------------------------------------------------------------------------|------------------------------------------|----------|-----------|--------------|----------|-----------|---------------|--------------|------------------------------------------------------------------------|------------|----------|--------------|------------------------|-------------|------|--------------|------|--|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                          |          |           |              |          |           | ID Code       |              | P-1 ITEM NOMENCLATURE/SUBHEAD<br>DSSP EQUIPMENT BLI: 095500 SBHD: 81HJ |            |          |              |                        |             |      |              |      |  |  |
| COST CODE                                                                                | ELEMENT OF COST                          |          |           |              |          |           |               |              |                                                                        |            |          |              |                        |             |      |              |      |  |  |
|                                                                                          |                                          | FY 2002  |           |              | FY 2003  |           |               | FY 2004      |                                                                        |            | FY 2005  |              |                        | To Complete |      | Total        |      |  |  |
|                                                                                          |                                          | Quantity | Unit Cost | Total Cost   | Quantity | Unit Cost | Total Cost    | Quantity     | Unit Cost                                                              | Total Cost | Quantity | Unit Cost    | Total Cost             | Quantity    | Cost | Quantity     | Cost |  |  |
| HJ010                                                                                    | RESCUE/DSRV                              | A        |           | 197          |          |           | 0             |              |                                                                        | 0          |          |              | 0                      |             |      |              |      |  |  |
| HJ020                                                                                    | NR-1                                     | A        |           | 855          |          |           | 304           |              |                                                                        | 303        |          |              | 1,266                  |             |      |              |      |  |  |
| HJ060                                                                                    | UNMANNED VEHICLE SYSTEMS                 | A        |           | 350          |          |           | 346           |              |                                                                        | 339        |          |              | 266                    |             |      |              |      |  |  |
| HJ080                                                                                    | SUBMARINE RESCUE CHAMBER                 | A        |           | 0            |          |           | 0             |              |                                                                        | 0          |          |              | 0                      |             |      |              |      |  |  |
| HJ090                                                                                    | ADS                                      | A        |           | 225          |          |           | 233           |              |                                                                        | 256        |          |              | 262                    |             |      |              |      |  |  |
| HJ100                                                                                    | SUBMARINE ESCAPE AND IMMERSION EQUIPMENT | A        |           | 3,603        |          |           | 2,277         |              |                                                                        | 2,324      |          |              | 4,874                  |             |      |              |      |  |  |
|                                                                                          | MATERIAL TOTAL                           |          |           | 5,230        |          |           | 3,160         |              |                                                                        | 3,222      |          |              | 6,668                  |             |      |              |      |  |  |
| HJINS                                                                                    | EQUIPMENT INSTALLATION (FMP)             | A        |           | 1,215        |          |           | 1,306         |              |                                                                        | 1,333      |          |              | 1,361                  |             |      |              |      |  |  |
|                                                                                          | (NON-FMP)                                |          |           | 1,050        |          |           | 750           |              |                                                                        | 750        |          |              | 1,261                  |             |      |              |      |  |  |
|                                                                                          | (NON-FMP)                                |          |           | 165          |          |           | 556           |              |                                                                        | 583        |          |              | 100                    |             |      |              |      |  |  |
|                                                                                          |                                          |          |           | <b>6,445</b> |          |           |               | <b>4,466</b> |                                                                        |            |          | <b>4,555</b> |                        |             |      | <b>8,029</b> |      |  |  |

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CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                          |                            |               | A. DATE<br><b>FEBRUARY 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>HJ010 RESCUE/DSRV SUPPORT EQUIPMENT</b> |                            |               |                                 | SUBHEAD<br><b>81HJ</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                           | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>FY1999</u></b>                                                                                |          |                       |                    |                   |                                                                        |                            |               |                                 |                           |                                |
| Supt Ship Mod.                                                                                      | 1        | \$165                 | NAVSEA             |                   | WX                                                                     | COMSUBPAC                  | 1/99          | 1/99                            | YES                       |                                |
| RAV-18                                                                                              | 1        | \$1,746               | NAVSEA             |                   | SS/OPTION                                                              | LMESC - S. Diego, CA       | 4/99          | 4/99                            | YES                       |                                |
| Rotatable Pool Items                                                                                | 1        | \$151                 | NAVSEA             |                   | SS/OPTION                                                              | LMESC - S. Diego, CA       | 6/99          | 6/00                            | YES                       |                                |
| Atmosphere Monitors                                                                                 | 2        | \$51                  | NAVSEA             |                   | RCP                                                                    | PORTSMOUTH, NSY            | 2/99          | 9/99                            | YES                       |                                |
| CRT Upgrade                                                                                         | 3        | \$4                   | NAVSEA             |                   | SS/OPTION                                                              | CSDL - Boston, MA          | 2/99          | 7/99                            | YES                       |                                |
| <b><u>FY2000</u></b>                                                                                |          |                       |                    |                   |                                                                        |                            |               |                                 |                           |                                |
| Unidentified Safety Items                                                                           | 1        | \$679                 | NAVSEA             |                   | SS/OPTION                                                              | LMESC - S. Diego, CA       | 11/99         | 11/00                           | NO                        | 10/99                          |
| VB/TB Pump                                                                                          | 1        | \$238                 | NAVSEA             |                   | SS/OPTION                                                              | LMESC - S. Diego, CA       | 11/99         | 11/00                           | YES                       |                                |
| <b><u>FY2001</u></b>                                                                                |          |                       |                    |                   |                                                                        |                            |               |                                 |                           |                                |
| Unidentified Safety Items                                                                           | 1        | \$183                 | NAVSEA             |                   | SS/OPTION                                                              | LMESC - S. Diego, CA       | 11/00         | 11/01                           | NO                        | 6/00                           |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                        |                            |               |                                 |                           |                                |

CLASSIFICATION:

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                 |                            | A. DATE<br><b>FEBRUARY 2000</b> |                              |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------------|----------------------------|---------------------------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>HJ020 NR-1</b> |                            |                                 |                              | SUBHEAD<br><b>81HJ</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                  | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE                   | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FY1999</b>                                                                                       |          |                       |                    |                   |                                               |                            |                                 |                              |                           |                                |
| GPS Tech Doc.                                                                                       | 1        | \$11                  | NAVSEA             |                   | SS/OPTION                                     | GPS                        | 3/99                            | 4/99                         | YES                       |                                |
| Video Switcher                                                                                      | 1        | \$152                 | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 12/98                           | 12/00                        | YES                       |                                |
| Y2K                                                                                                 | 1        | \$52                  | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 5/99                            | 5/00                         | YES                       |                                |
| Guest Work Station                                                                                  | 1        | \$26                  | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 1/99                            | 3/99                         | YES                       |                                |
| Manipulator Life Extension                                                                          | 1        | \$96                  | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 3/99                            | 9/99                         | YES                       |                                |
| Jetter                                                                                              | 1        | \$547                 | NAVSEA             |                   | RCP                                           | Portsmouth, NSY            | 3/99                            | 11/99                        | YES                       |                                |
| <b>FY2000</b>                                                                                       |          |                       |                    |                   |                                               |                            |                                 |                              |                           |                                |
| GPS Antenna                                                                                         | 1        | \$84                  | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 12/99                           | 9/00                         | YES                       |                                |
| Manipulator Turret Rails                                                                            | 1        | \$90                  | NAVSEA             |                   | SS/BOA                                        | EB Corp-Groton CT          | 11/99                           | 12/00                        | YES                       |                                |
| PC Update                                                                                           | 1        | \$122                 | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 1/00                            | 7/00                         | YES                       |                                |
| OAS PCOF Cable Replace                                                                              | 1        | \$140                 | NAVSEA             |                   | RC                                            | Applied Research Lab-UT    | 12/99                           | 7/00                         | YES                       |                                |
| UHF Radio Replacement                                                                               | 1        | \$60                  | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 11/99                           | 10/00                        | YES                       |                                |
| Cable Replacement                                                                                   | 1        | \$100                 | NAVSEA             |                   | SS/BOA                                        | EB Corp-Groton CT          | 11/99                           | 12/00                        | YES                       |                                |
| Sub Rescue Equipment                                                                                | 1        | \$220                 | NAVSEA             |                   | SS/BOA                                        | EB Corp-Groton CT          | 11/99                           | 10/00                        | YES                       |                                |
| <b>FY2001</b>                                                                                       |          |                       |                    |                   |                                               |                            |                                 |                              |                           |                                |
| MK23 Gyro Replacement                                                                               | 2        | \$120                 | NAVSEA             |                   | SS/OPTION                                     | LMTDS-Great Neck, NY       | 2/01                            | 2/02                         | NO                        | 12/00                          |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                               |                            |                                 |                              |                           |                                |

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| B. APPROPRIATION/BUDGET ACTIVITY    |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE                        |                            |               |                              | A. DATE                   |                                |
|-------------------------------------|----------|-----------------------|--------------------|-------------------|-------------------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| <b>Other Procurement, Navy</b>      |          |                       |                    |                   | <b>HJ060 Unmanned Vehicle Systems Equipment</b> |                            |               |                              | <b>FEBRUARY 2000</b>      |                                |
| <b>BA-1 Ships Support Equipment</b> |          |                       |                    |                   |                                                 |                            |               |                              | <b>81HJ</b>               |                                |
| Cost Element/<br>FISCAL YEAR        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                    | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>FY1999</u></b>                |          |                       |                    |                   |                                                 |                            |               |                              |                           |                                |
| PODS                                | 26       | \$4                   | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 6/99          | 9/99                         | YES                       |                                |
| PODS Training Fixture               | 1        | \$26                  | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 10/98         | 3/99                         | YES                       |                                |
| PODS SSN F/C Kits                   | 10       | \$5                   | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 1/99          | 5/99                         | YES                       |                                |
| Rescue Tools                        | 3        | \$69                  | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 2/99          | 11/99                        | YES                       |                                |
| Emergency Brake                     | 1        | \$43                  | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 1/99          | 5/99                         | YES                       |                                |
| <b><u>FY2000</u></b>                |          |                       |                    |                   |                                                 |                            |               |                              |                           |                                |
| PODS SSN F/C Kits                   | 25       | \$20                  | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 11/99         | 3/00                         | YES                       |                                |
| <b><u>FY2001</u></b>                |          |                       |                    |                   |                                                 |                            |               |                              |                           |                                |
| PODS SSN F/C Kits                   | 10       | \$20                  | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 12/00         | 7/01                         | YES                       |                                |
| PODS SSN F/C Kits                   | 10       | \$10                  | NAVSEA             |                   | COMP/OPTION                                     | O'Tech - Upper Malboro     | 1/98          | 7/01                         | YES                       |                                |
| D. REMARKS                          |          |                       |                    |                   |                                                 |                            |               |                              |                           |                                |

CLASSIFICATION:

**UNCLASSIFIED**

|                                                               |               |
|---------------------------------------------------------------|---------------|
| <b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b> | Weapon System |
|---------------------------------------------------------------|---------------|

|                                                                                                                  |                                                                          |                               |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------|
| <b>B. APPROPRIATION/BUDGET ACTIVITY</b><br><b>Other Procurement, Navy</b><br><b>BA-1 Ships Support Equipment</b> | <b>C. P-1 ITEM NOMENCLATURE</b><br><b>HJ080 Submarine Resuce Chamber</b> | <b>SUBHEAD</b><br><b>81HJ</b> |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------|

| Cost Element/<br>FISCAL YEAR  | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
|-------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|----------------------------|---------------|---------------------------|--------------------------------|
| <b>FY1999</b><br>SRCFS CRADLE | 1        | \$64                  | NAVSEA             |                   | WR                           | PORTSMOUTH NSY             | 4/99          | YES                       |                                |

D. REMARKS

CLASSIFICATION:

**UNCLASSIFIED**

| B. APPROPRIATION/BUDGET ACTIVITY        |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE     |                                 |               |                              | A. DATE                   |                                |
|-----------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|---------------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| <b>Other Procurement, Navy</b>          |          |                       |                    |                   | <b>HJ090 ADS</b>             |                                 |               |                              | <b>FEBRUARY 2000</b>      |                                |
| <b>BA-1 Ships Support Equipment</b>     |          |                       |                    |                   |                              |                                 |               |                              | <b>81HJ</b>               |                                |
| Cost Element/<br>FISCAL YEAR            | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION      | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FY1999</b><br>ADS and LARS Spares    | 1        | \$547                 | NAVSEA             |                   | RC                           | COASTASYSSTA<br>Panama City, FL | 9/99          | 4/00                         | YES                       |                                |
| <b>FY2000</b><br>Communications Upgrade | 2        | \$50                  | NAVSEA             |                   | RC                           | COASTASYSSTA<br>Panama City, FL | 2/00          | 10/00                        | YES                       |                                |
| Camera Upgrade                          | 2        | \$33                  | NAVSEA             |                   | RC                           | COASTASYSSTA<br>Panama City, FL | 2/00          | 10/00                        | YES                       |                                |
| <b>FY2001</b><br>Camera Upgrade         | 2        | \$35                  | NAVSEA             |                   | RC                           | COASTASYSSTA<br>Panama City, FL | 2/01          | 10/01                        | YES                       |                                |
| Sonar Upgrade                           | 2        | \$32                  | NAVSEA             |                   | RC                           | COASTASYSSTA<br>Panama City, FL | 2/01          | 10/01                        | YES                       |                                |
| ADS Replacement Parts                   | 1        | \$38                  | NAVSEA             |                   | RC                           | COASTASYSSTA<br>Panama City, FL | 2/01          | 10/01                        | YES                       |                                |
| D. REMARKS                              |          |                       |                    |                   |                              |                                 |               |                              |                           |                                |

|                                                               |               |                                        |
|---------------------------------------------------------------|---------------|----------------------------------------|
| <b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b> | Weapon System | <b>A. DATE</b><br><b>FEBRUARY 2000</b> |
|---------------------------------------------------------------|---------------|----------------------------------------|

|                                                                                                                  |                                                            |                               |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------|
| <b>B. APPROPRIATION/BUDGET ACTIVITY</b><br><b>Other Procurement, Navy</b><br><b>BA-1 Ships Support Equipment</b> | <b>C. P-1 ITEM NOMENCLATURE</b><br><b>HJ100 SEIE SUITS</b> | <b>SUBHEAD</b><br><b>81HJ</b> |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------|

| Cost Element/<br>FISCAL YEAR | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION                    | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
|------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|-----------------------------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| <b>FY1999</b>                |          |                       |                    |                   |                              |                                               |               |                              |                           |                                |
| SEIE Suits:                  |          |                       |                    |                   | SS/OPTION                    | Naval Regional Contracting Center, London, UK |               |                              |                           |                                |
| Trident                      | 1        | \$543                 | NAVSEA             |                   |                              |                                               | 2/99          | 11/99                        | YES                       |                                |
| 688                          | 4        | \$383                 | NAVSEA             |                   |                              |                                               | 2/99          | 11/99                        | YES                       |                                |
| Seawolf                      | 1        | \$342                 | NAVSEA             |                   |                              |                                               | 2/99          | 11/99                        | YES                       |                                |
| Trident Class Mods           | 1        | \$405                 | NAVSEA             |                   | SS/OPTION                    | EB Corp-Groton CT                             | 4/99          | 11/99                        | YES                       |                                |
| Seawolf Class Mods           | 2        | \$136                 | NAVSEA             |                   | SS/OPTION                    | EB Corp-Groton CT                             | 6/99          | 11/99                        | YES                       |                                |
| SEPIRB Equipment             | 1        | \$735                 | NAVSEA             |                   | WR                           | NUWC, NPT                                     | 2/99          | 11/99                        | YES                       |                                |
| Test Sets                    | 1        | \$166                 | NAVSEA             |                   | SS/OPTION                    | EB Corp-Groton CT                             | 6/99          | 11/99                        | YES                       |                                |
| <b>FY2000</b>                |          |                       |                    |                   |                              |                                               |               |                              |                           |                                |
| SEIE Suits:                  |          |                       | NAVSEA             |                   | SS/OPTION                    | Naval Regional Contracting Center, London, UK | 10/99         | 3/00                         | YES                       |                                |
| Trident                      | 2        | \$513                 |                    |                   |                              |                                               |               |                              |                           |                                |
| 688                          | 4        | \$379                 |                    |                   |                              |                                               |               |                              |                           |                                |
| Seawolf                      | 2        | \$322                 |                    |                   |                              |                                               |               |                              |                           |                                |
| SEPIRB Equipment             | 1        | \$360                 | NAVSEA             |                   | WR                           | NUWC, NPT                                     | 2/00          | 11/00                        | YES                       |                                |
| Test Equipment               | 1        | \$300                 | NAVSEA             |                   | WR                           | NUWC, NPT                                     | 2/00          | 11/00                        | YES                       |                                |
| <b>FY2001</b>                |          |                       |                    |                   |                              |                                               |               |                              |                           |                                |
| SEIE Suits                   |          |                       | NAVSEA             |                   | SS/OPTION                    | Naval Regional Contracting Center, London, UK | 10/00         | 2/01                         | YES                       |                                |
| Trident                      | 4        | \$539                 |                    |                   |                              |                                               |               |                              |                           |                                |
| 688                          | 3        | \$379                 |                    |                   |                              |                                               |               |                              |                           |                                |

|                   |
|-------------------|
| <b>D. REMARKS</b> |
|-------------------|

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: DSRV-1/DSRV-2 TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |     | <u>FY 1999</u> |       | <u>FY 2000</u> |       | <u>FY 2001</u> |       | <u>FY 2002</u> |       | <u>FY 2003</u> |     | <u>FY 2004</u> |     | <u>FY 2005</u> |     | <u>TC</u> | <u>TOTAL</u> |    |     |
|-------------------------------------|----------------------------|----|----------------|-----|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-----|----------------|-----|----------------|-----|-----------|--------------|----|-----|
|                                     | QTY                        | \$ | QTY            | \$  | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$  | QTY            | \$  | QTY            | \$  |           | QTY          | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    |     |
| <u>RDT&amp;E</u>                    |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              | 0  | 0.0 |
| <u>PROCUREMENT</u>                  |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    |     |
| INSTALLATION KITS                   |                            |    |                |     | 8              | 2.176 | 2              | 0.917 | 1              | 0.183 | 1              | 0.197 |                |     |                |     |                |     |           |              | 12 | 3.5 |
| INSTALLATION KITS - UNIT COST       |                            |    |                |     |                | 0.3   |                | 0.5   |                | 0.2   |                |       |                |     |                |     |                |     |           |              | 0  | 0.9 |
| INSTALLATION KITS NONRECURRING      |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| EQUIPMENT                           |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| EQUIPMENT NONRECURRING              |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| DATA                                |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| TRAINING EQUIPMENT                  |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| SUPPORT EQUIPMENT                   |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| INSTALL COST                        |                            |    |                |     |                |       |                |       |                |       |                |       |                |     |                |     |                |     |           |              |    | 0.0 |
| TOTAL PROCUREMENT                   |                            |    |                | 0.0 |                | 2.2   |                | 0.9   |                | 0.2   |                | 0.2   |                | 0.0 |                | 0.0 |                | 0.0 |           |              |    | 3.5 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: Mystic DSRV-1/ Avalon DSRV-2      MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: Various  
 ADMINISTRATIVE LEADTIME: Various      PRODUCTION LEADTIME: Various Months  
 CONTRACT DATES:    FY 1999: Various      FY 2000: Various      FY 2001: Various  
 DELIVERY DATE:    FY 1999: Various      FY 2000: Various      FY 2001: Various

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |     |
| PRIOR YEARS       |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    | 5       | 0.0 | 1       | 0.0 |         |     |         |    |         |    |         |    |         |    |             |    |       | 6  | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    | 7       | 0.3 | 1       | 0.5 |         |     |         |    |         |    |         |    |         |    |             |    |       | 8  | 0.8 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     |         |     | 2       | 0.2 |         |    |         |    |         |    |         |    |             |    |       | 2  | 0.2 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     |         | 1   | 0.0     |    |         |    |         |    |         |    |             |    |       | 1  | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         | 1  | 0.0     |    |         |    |         |    |             |    |       | 1  | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |    |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 4       | 2       | 2 | 3 | 5 | 1       | 0 | 1 | 0 | 2       | 0 | 0 | 0 | 1       | 0 | 0 | 0 | 1       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 22    |
| Out | 4       | 1       | 2 | 3 | 4 | 3       | 0 | 0 | 1 | 2       | 0 | 0 | 0 | 1       | 0 | 0 | 0 | 1       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 22    |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NR-1 TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: SUBMARINE NR-1- HJ020

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |     | <u>FY 1999</u> |       | <u>FY 2000</u> |       | <u>FY 2001</u> |       | <u>FY 2002</u> |       | <u>FY 2003</u> |       | <u>FY 2004</u> |       | <u>FY 2005</u> |       | <u>TC</u> | <u>TOTAL</u> |     |      |
|-------------------------------------|----------------------------|----|----------------|-----|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|-----------|--------------|-----|------|
|                                     | QTY                        | \$ | QTY            | \$  | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY       | \$           | QTY | \$   |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     |      |
| <u>RDT&amp;E</u>                    |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              | 0   | 0.0  |
| <u>PROCUREMENT</u>                  |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     |      |
| INSTALLATION KITS                   |                            |    |                |     | 6              | 0.884 | 7              | 0.816 | 2              | 0.239 | 4              | 0.855 | 3              | 0.304 | 2              | 0.303 | 7              | 1.266 |           |              | 31  | 4.67 |
| INSTALLATION KITS - UNIT COST       |                            |    |                |     |                | 0.1   |                | 0.1   |                | 0.1   |                | 0.0   |                |       |                |       |                |       |           |              | 0   | 0.38 |
| INSTALLATION KITS NONRECURRING      |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| EQUIPMENT                           |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| EQUIPMENT NONRECURRING              |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| DATA                                |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| TRAINING EQUIPMENT                  |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| SUPPORT EQUIPMENT                   |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| INSTALL COST                        |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| TOTAL PROCUREMENT                   |                            |    |                | 0.0 |                | 0.9   |                | 0.8   |                | 0.2   |                | 0.9   |                | 0.3   |                | 0.3   |                | 1.3   |           |              |     | 4.7  |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: NR-1 MODIFICATION TITLE: \_\_\_\_\_

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Various

ADMINISTRATIVE LEADTIME: Various

PRODUCTION LEADTIME: Various Months

CONTRACT DATES: FY 1999: Various

FY 2000: Various

FY 2001: Various

DELIVERY DATE: FY 1999: Various

FY 2000: Various

FY 2001: Various

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    | 6       | 0.0 |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 6     | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    | 3       | 0.1 | 2       | 0.0 | 1       | 0.0 |         |     |         |     |         |     |         |     |             |    | 6     | 0.1 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     | 3       | 0.1 | 4       | 0.1 |         |     |         |     |         |     |         |     |             |    | 7     | 0.2 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     |         |     | 2       | 0.0 |         |     |         |     |         |     |             |    | 2     | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     | 4       | 0.0 |         |     |         |     |             |    | 4     | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     | 3       | 0.0 |         |     |             |    | 3     | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     | 2       | 0.0 |             |    | 2     | 0.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     | 7           |    | 7     | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 1       | 5       | 0 | 3 | 1 | 1       | 0 | 1 | 3 | 5       | 0 | 0 | 0 | 0       | 2 | 0 | 0 | 4       | 0 | 0 | 2 | 1       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 9  | 38    |
| Out | 1       | 4       | 1 | 2 | 1 | 2       | 0 | 1 | 2 | 3       | 3 | 0 | 0 | 0       | 2 | 0 | 0 | 1       | 3 | 0 | 0 | 3       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 9  | 38    |

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CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: \_\_\_\_\_ TETHERED UNMANNED TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: DSSP  
 WORK VEHICLE SYSTEM

DESCRIPTION/JUSTIFICATION: DEEP SUBMERGENCE VEHICLES - HJ060

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |     | <u>FY 1999</u> |       | <u>FY 2000</u> |       | <u>FY 2001</u> |       | <u>FY 2002</u> |       | <u>FY 2003</u> |       | <u>FY 2004</u> |       | <u>FY 2005</u> |       | <u>TC</u> | <u>TOTAL</u> |     |      |
|-------------------------------------|----------------------------|----|----------------|-----|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|-----------|--------------|-----|------|
|                                     | QTY                        | \$ | QTY            | \$  | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY            | \$    | QTY       | \$           | QTY | \$   |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     |      |
| <u>RDT&amp;E</u>                    |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              | 0   | 0.0  |
| <u>PROCUREMENT</u>                  |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     |      |
| INSTALLATION KITS                   |                            |    |                |     | 41             | 0.430 | 25             | 0.500 | 20             | 0.300 | 5              | 0.350 | 23             | 0.346 | 6              | 0.339 | 23             | 0.226 |           |              | 143 | 2.49 |
| INSTALLATION KITS - UNIT COST       |                            |    |                |     |                | 0.0   |                | 0.0   |                | 0.0   |                | 0.1   |                | 0.0   |                | 0.1   |                | 0.0   |           |              | 0   | 0.20 |
| INSTALLATION KITS NONRECURRING      |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| EQUIPMENT                           |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| EQUIPMENT NONRECURRING              |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| ENGINEERING CHANGE ORDERS           |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| DATA                                |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| TRAINING EQUIPMENT                  |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| SUPPORT EQUIPMENT                   |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| OTHER                               |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| INSTALL COST                        |                            |    |                |     |                |       |                |       |                |       |                |       |                |       |                |       |                |       |           |              |     | 0.0  |
| TOTAL PROCUREMENT                   |                            |    |                | 0.0 |                | 0.4   |                | 0.5   |                | 0.3   |                | 0.4   |                | 0.3   |                | 0.3   |                | 0.2   |           |              |     | 2.5  |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: TUWVS MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Various

ADMINISTRATIVE LEADTIME: Various

PRODUCTION LEADTIME: Various Months

CONTRACT DATES: FY 1999: Various

FY 2000: Various

FY 2001: Various

DELIVERY DATE: FY 1999: Various

FY 2000: Various

FY 2001: Various

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 0     | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    | 5       | 0.0 | 4       | 0.0 |         |     |         |     |         |     |         |     |         |     |             |    | 9     | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    | 38      | 0.0 | 3       | 0.0 |         |     |         |     |         |     |         |     |         |     |             |    | 41    | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     | 25      | 0.0 |         |     |         |     |         |     |         |     |         |     |             |    | 25    | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     | 20      | 0.0 |         |     |         |     |         |     |         |     |             |    | 20    | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         |     | 5       | 0.1 |         |     |         |     |         |     |             |    | 5     | 0.1 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     | 20      | 0.1 | 3       | 0.0 |         |     |             |    | 23    | 0.1 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     | 6       | 0.1 |         |     |             |    | 6     | 0.1 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     | 23      | 0.0 |             |    | 23    | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |     |         |     |         |     |         |     |         |     |             |    | 152   |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |    |    | FY 2000 |    |    |   | FY 2001 |   |   |    | FY 2002 |   |   |   | FY 2003 |   |    |   | FY 2004 |   |   |   | FY 2005 |   |   |    | TC | TOTAL |
|-----|---------|---------|---|----|----|---------|----|----|---|---------|---|---|----|---------|---|---|---|---------|---|----|---|---------|---|---|---|---------|---|---|----|----|-------|
|     | & Prior | 1       | 2 | 3  | 4  | 1       | 2  | 3  | 4 | 1       | 2 | 3 | 4  | 1       | 2 | 3 | 4 | 1       | 2 | 3  | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4  |    |       |
| In  | 3       | 0       | 1 | 13 | 29 | 7       | 25 | 0  | 0 | 0       | 0 | 0 | 20 | 0       | 0 | 0 | 0 | 5       | 0 | 20 | 0 | 3       | 0 | 1 | 5 | 0       | 0 | 0 | 23 | 0  | 155   |
| Out | 3       | 0       | 0 | 13 | 4  | 33      | 0  | 25 | 0 | 0       | 0 | 0 | 20 | 0       | 0 | 0 | 0 | 5       | 0 | 20 | 0 | 3       | 0 | 1 | 5 | 0       | 0 | 0 | 23 | 0  | 155   |

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CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE RESCUE CHAM TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: SUBMARINE RESCUE CHAMBER- HJ080

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | <u>FY 1997 &amp; Prior</u> |    | <u>FY 1998</u> |     | <u>FY 1999</u> |       | <u>FY 2000</u> |     | <u>FY 2001</u> |     | <u>FY 2002</u> |     | <u>FY 2003</u> |     | <u>FY 2004</u> |     | <u>FY 2005</u> |     | <u>TC</u> | <u>TOTAL</u> |    |       |
|-------------------------------------|----------------------------|----|----------------|-----|----------------|-------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|-----------|--------------|----|-------|
|                                     | QTY                        | \$ | QTY            | \$  | QTY            | \$    | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  | QTY            | \$  |           | QTY          | \$ |       |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    |       |
| <u>RDT&amp;E</u>                    |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              | 0  | 0.0   |
| <u>PROCUREMENT</u>                  |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    |       |
| INSTALLATION KITS                   |                            |    |                |     | 1              | 0.064 |                |     |                |     |                |     |                |     |                |     |                |     |           |              | 1  | 0.064 |
| INSTALLATION KITS - UNIT COST       |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              | 0  | 0.0   |
| INSTALLATION KITS NONRECURRING      |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| EQUIPMENT                           |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| EQUIPMENT NONRECURRING              |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| ENGINEERING CHANGE ORDERS           |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| DATA                                |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| TRAINING EQUIPMENT                  |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| SUPPORT EQUIPMENT                   |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| OTHER                               |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| OTHER                               |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| OTHER                               |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| INTERIM CONTRACTOR SUPPORT          |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| INSTALL COST                        |                            |    |                |     |                |       |                |     |                |     |                |     |                |     |                |     |                |     |           |              |    | 0.0   |
| TOTAL PROCUREMENT                   |                            |    |                | 0.0 |                | 0.1   |                | 0.0 |                | 0.0 |                | 0.0 |                | 0.0 |                | 0.0 |                | 0.0 |           |              |    | 0.1   |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SUBMARINE RESCUE MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)  
CHAMBER

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Various

ADMINISTRATIVE LEADTIME: Various

PRODUCTION LEADTIME: Various Months

CONTRACT DATES: FY 1999: Various

FY 2000: Various

FY 2001: Various

DELIVERY DATE: FY 1999: Various

FY 2000: Various

FY 2001: Various

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |     |
| PRIOR YEARS       |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    | 3       | 0.0 |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 3  | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    | 1       | 0.0 |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 1  | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |         |    |             |    |       |    |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 3       | 0       | 0 | 1 | 3 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 7     |
| Out | 3       | 0       | 0 | 1 | 3 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 7     |

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CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE ESCAPE AND IMMERSION EQUIPMENT TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: SEIE - HJ100

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |    | FY 1998 |     | FY 1999 |       | FY 2000 |       | FY 2001 |       | FY 2002 |       | FY 2003 |       | FY 2004 |       | FY 2005 |       | TC | TOTAL |    |       |
|-------------------------------------|-----------------|----|---------|-----|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|----|-------|----|-------|
|                                     | QTY             | \$ | QTY     | \$  | QTY     | \$    | QTY     | \$    | QTY     | \$    | QTY     | \$    | QTY     | \$    | QTY     | \$    | QTY     | \$    | \$ | QTY   | \$ |       |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    |       |
| <u>RDT&amp;E</u>                    |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       | 0  | 0.0   |
| <u>PROCUREMENT</u>                  |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    |       |
| INSTALLATION KITS                   |                 |    |         |     | 11      | 3.995 | 10      | 3.846 | 7       | 3.291 | 8       | 3.603 | 5       | 2.277 | 5       | 2.324 | 11      | 4.874 |    |       | 57 | 24.21 |
| INSTALLATION KITS - UNIT COST       |                 |    |         |     |         | 0.4   |         | 0.4   |         | 0.5   |         | 1.1   |         | 0.8   |         | 0.8   |         | 1.3   |    |       | 0  | 5.22  |
| INSTALLATION KITS NONRECURRING      |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| EQUIPMENT                           |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| EQUIPMENT NONRECURRING              |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| ENGINEERING CHANGE ORDERS           |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| DATA                                |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| TRAINING EQUIPMENT                  |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| SUPPORT EQUIPMENT                   |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| OTHER                               |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| OTHER                               |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| OTHER                               |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| INTERIM CONTRACTOR SUPPORT          |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| INSTALL COST                        |                 |    |         |     |         |       |         |       |         |       |         |       |         |       |         |       |         |       |    |       |    | 0.0   |
| TOTAL PROCUREMENT                   |                 |    |         | 0.0 |         | 4.0   |         | 3.8   |         | 3.3   |         | 3.6   |         | 2.3   |         | 2.3   |         | 4.9   |    |       |    | 24.2  |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SEIE MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Various

ADMINISTRATIVE LEADTIME: Various

PRODUCTION LEADTIME: Various Months

CONTRACT DATES: FY 1999: Various FY 2000: Various FY 2001: Various

DELIVERY DATE: FY 1999: Various FY 2000: Various FY 2001: Various

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    | 1       | 0.0 |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 1     | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    | 11      | 0.4 |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 11    | 0.4 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     | 10      | 0.4 |         |     |         |    |         |    |         |    |         |    |             |    | 10    | 0.4 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     | 7       | 0.5 |         |    |         |    |         |    |         |    |             |    | 7     | 0.5 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         | 8   | 1.1     |    |         |    |         |    |         |    |             |    | 8     | 1.1 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         | 5  | 0.8     |    |         |    |         |    |             |    | 5     | 0.8 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         | 5  | 0.8     |    |         |    |             |    | 5     | 0.8 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         | 11 | 1.3     |    |             |    | 11    | 1.3 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |    |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|----|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2  | 3 | 4 |    |       |
| In  | 0       | 1       | 0 | 0 | 0 | 11      | 8 | 0 | 0 | 1       | 7 | 0 | 0 | 0       | 8 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 11 | 0 | 0 | 0  | 57    |
| Out | 0       | 0       | 1 | 0 | 0 | 11      | 0 | 8 | 0 | 1       | 7 | 0 | 0 | 0       | 8 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 5 | 0 | 0 | 0       | 11 | 0 | 0 | 0  | 57    |

5 KITS IN FY99 REQUIRE NO INSTALLATION FUNDING

P-3A

**CLASSIFICATION:**

| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |         |         |         | DATE: <b>February 2000</b>     |         |         |             |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|---------|---------|---------|--------------------------------|---------|---------|-------------|---------|
| <b>P-40</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |         |         |         |                                |         |         |             |         |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |         |         |         |         | P-1 ITEM NOMENCLATURE          |         |         |             |         |
| <b>OTHER PROCUREMENT, NAVY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |         |         |         | <b>LCAC SLEP/097000 21LC</b>   |         |         |             |         |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |         |         |         | Other Related Program Elements |         |         |             |         |
| <b>BA-1: Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |         |         |         |         |                                |         |         |             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Prior Years | ID Code | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003                        | FY 2004 | FY 2005 | To Complete | Total   |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         | 0       | 1       | 1       | 2       | 2                              | 2       | 2       | 31          | 41      |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         | \$0.0   | \$4.0   | \$3.6   | \$7.8   | \$5.2                          | \$6.8   | \$6.7   | 121.5       | \$155.6 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |         | \$0.0   | \$0.0   | \$0.0   | \$0.0   | \$0.0                          | \$0.0   | \$0.0   | \$0.0       | \$0.0   |
| <p>PROGRAM DESCRIPTION JUSTIFICATION:</p><br><p>ITEM DESCRIPTION/JUSTIFICATION:</p> <p>LCAC SLEP will consist of procuring and installing a new C4N suite of electronics equipment in the command module on Landing Craft Air Cushion (LCAC). The LCAC mission is to transport from ship-to-shore and across the beach, weapons systems, equipment and cargo to personnel of the assault elements of the Marine Air/Ground Task Force. The LCAC weighs 150 tons, is 88ft long with a beam of 47ft, rides on a cushion of air contained in a flexible skirt and is propelled by two aft mounted reversable variable pitch propellers. It is capable of speeds in excess of 40 knots. The new C4N electronics suite will replace the electronics suite currently being used on the LCAC. This upgrade will replace obsolescent electronic technology, reduce craft electronics life cycle costs, improve supportability and contribute toward extending the life of the craft. The new C4N also introduces new systems architecture which allows simpler lower cost upgrades of individual components and future changes using software rather than hardware.</p> <p>LC001 - Removal of the craft electronics equipment and procurement and installation of a new C4N electronics suite. Equipment removal and installation will take place at the two Assault Craft Units (ACUs), each of which are currently responsible for half of the craft inventory.</p><br><p>Estimates include competitive outsourcing savings associated with consolidation of production support contracting efforts.</p> |             |         |         |         |         |         |                                |         |         |             |         |

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION **UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS  |                                        |         |                                    | Weapon System |           |                               |          |           |            | DATE:         |           |            |          |           |            |
|-------------------------------|----------------------------------------|---------|------------------------------------|---------------|-----------|-------------------------------|----------|-----------|------------|---------------|-----------|------------|----------|-----------|------------|
| P-5                           |                                        |         |                                    | LCAC          |           |                               |          |           |            | February 2000 |           |            |          |           |            |
| APPROPRIATION/BUDGET ACTIVITY |                                        |         |                                    | ID Code       |           | P-1 ITEM NOMENCLATURE/SUBHEAD |          |           |            |               |           |            |          |           |            |
| Other Procurement, Navy       |                                        |         |                                    |               |           | LCAC SLEP / 097000 / 21LC     |          |           |            |               |           |            |          |           |            |
| COST CODE                     | ELEMENT OF COST                        | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |           |                               |          |           |            |               |           |            |          |           |            |
|                               |                                        |         | Prior Years                        | FY 1998       |           |                               | FY 1999  |           |            | FY 2000       |           |            | FY 2001  |           |            |
|                               |                                        |         | Total Cost                         | Quantity      | Unit Cost | Total Cost                    | Quantity | Unit Cost | Total Cost | Quantity      | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost |
| LC001                         | LCAC SLEP N853<br>C4N ELECTRONIC SUITE | A       |                                    |               |           |                               |          |           |            | 1             | 3,871     | 3,871      | 1        | 3,420     | 3,420      |
| LC900                         | CONSULTING SERVICES                    | A       |                                    |               |           |                               |          |           |            |               |           | 154        |          |           | 139        |
|                               |                                        |         | 0                                  |               |           | 0                             |          |           | 0          |               |           | 4,025      |          |           | 3,559      |

**UNCLASSIFIED**

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| WEAPONS SYSTEM COST ANALYSIS  |                      |          |           | Weapon System |          |           |              | DATE:                         |           |              |          |           |              |             |          |          |          |
|-------------------------------|----------------------|----------|-----------|---------------|----------|-----------|--------------|-------------------------------|-----------|--------------|----------|-----------|--------------|-------------|----------|----------|----------|
| P-5                           |                      |          |           | LCAC          |          |           |              | February 2000                 |           |              |          |           |              |             |          |          |          |
| APPROPRIATION/BUDGET ACTIVITY |                      |          |           | ID Code       |          |           |              | P-1 ITEM NOMENCLATURE/SUBHEAD |           |              |          |           |              |             |          |          |          |
| Other Procurement, Navy       |                      |          |           |               |          |           |              | LCAC SLEP / 097000 / 21LC     |           |              |          |           |              |             |          |          |          |
| COST CODE                     | ELEMENT OF COST      |          |           |               |          |           |              |                               |           |              |          |           |              |             |          |          |          |
|                               |                      | FY 2002  |           |               | FY 2003  |           |              | FY 2004                       |           |              | FY 2005  |           |              | To Complete |          | Total    |          |
|                               |                      | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost | Total Cost   | Quantity                      | Unit Cost | Total Cost   | Quantity | Unit Cost | Total Cost   | Quantity    | Cost     | Quantity | Cost     |
| LC001                         | LCAC SLEP N853       |          |           |               |          |           |              |                               |           |              |          |           |              |             |          |          |          |
|                               | C4N ELECTRONIC SUITE | 2        | 3,866     | 7,731         | 2        | 2,526     | 5,051        | 2                             | 3,294     | 6,587        | 2        | 3,362     | 6,723        |             |          |          |          |
|                               | CONSULTING SERVICES  |          |           | 105           |          |           | 130          |                               |           | 110          |          |           | 109          |             |          |          |          |
|                               |                      |          |           | <b>7,836</b>  |          |           | <b>5,181</b> |                               |           | <b>6,697</b> |          |           | <b>6,832</b> |             | <b>0</b> |          | <b>0</b> |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                    |          |                       |                    |                   | Weapon System<br>LCAC                          |                                                      | A. DATE<br>February 2000 |                              |                           |                                |
|-------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------------------|------------------------------------------------------|--------------------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1: SHIPS SUPPORT SYSTEM |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br>LCAC SLEP / 097000 |                                                      |                          |                              | SUBHEAD<br>21LC           |                                |
| Cost Element/<br>FISCAL YEAR                                                              | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                   | CONTRACTOR<br>AND LOCATION                           | AWARD<br>DATE            | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FISCAL YEAR 2000</b><br>LC001/C4N Electronic Suite                                     | 1        | 3,871                 | NAVSEA             | 06/99             | SS/CPAF                                        | TEXTRON, Marine and Land                             | 4/00                     | 1/02                         | NO                        |                                |
| <b>FISCAL YEAR 2001</b><br>LC001/C4N Electronic Suite                                     | 1        | 3,420                 | NAVSEA             | 06/99             | SS/CPAF                                        | TEXTRON, Marine and Land<br>Systems, New Orleans, LA | 12/00                    | 6/02                         | NO                        |                                |
| <b>FISCAL YEAR 2002</b><br>LC001/C4N Electronic Suite                                     | 2        | 3,866                 | NAVSEA             | 06/99             | SS/CPAF                                        | TEXTRON, Marine and Land<br>Systems, New Orleans, LA | 12/01                    | 10/02                        |                           |                                |
| <b>FISCAL YEAR 2003</b><br>LC001/C4N Electronic Suite                                     | 2        | 2,526                 | NAVSEA             | 10/02             | SS/FP                                          | TEXTRON, Marine and Land<br>Systems, New Orleans, LA | 12/02                    | 10/03                        |                           |                                |
| <b>FISCAL YEAR 2004</b><br>LC001/C4N Electronic Suite                                     | 2        | 3,294                 | NAVSEA             | 10/03             | SS/FP                                          | TEXTRON, Marine and Land<br>Systems, New Orleans, LA | 12/03                    | 10/04                        |                           |                                |
| <b>FISCAL YEAR 2005</b><br>LC001/C4N Electronic Suite                                     | 2        | 3,362                 | NAVSEA             | 10/04             | SS/FP                                          | TEXTRON, Marine and Land<br>Systems, New Orleans, LA | 12/04                    | 10/05                        |                           |                                |
| D. REMARKS                                                                                |          |                       |                    |                   |                                                |                                                      |                          |                              |                           |                                |

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE: **February 2000**

|                                                                             |                                                                         |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br><b>OTHER PROCUREMENT, NAVY/BA-1</b> | <b>P-1 ITEM NOMENCLATURE</b><br><b>MINESWEEPING EQUIPMENT/BLI #0975</b> |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|

|                                                      |                                                   |
|------------------------------------------------------|---------------------------------------------------|
| Program Element for Code B Items:<br><b>0603654N</b> | Other Related Program Elements<br><b>0603654N</b> |
|------------------------------------------------------|---------------------------------------------------|

|                              | Prior Years | ID Code |  | FY 1999      | FY 2000       | FY 2001       | FY 2002       | FY 2003       | FY 2004      | FY 2005       | To Complete | Total |
|------------------------------|-------------|---------|--|--------------|---------------|---------------|---------------|---------------|--------------|---------------|-------------|-------|
| QUANTITY                     |             |         |  |              |               |               |               |               |              |               |             |       |
| COST<br>(In Millions)        |             |         |  | <b>\$0.4</b> | <b>\$19.6</b> | <b>\$16.6</b> | <b>\$16.1</b> | <b>\$10.8</b> | <b>\$9.0</b> | <b>\$12.2</b> |             |       |
| SPARES COST<br>(In Millions) |             |         |  | <b>\$0.7</b> | <b>\$0.4</b>  | <b>\$0.4</b>  | <b>\$0.4</b>  | <b>\$0.5</b>  | <b>\$0.5</b> | <b>\$0.6</b>  |             |       |

THIS BUDGET CONSOLIDATES SUBHEAD 81GG/BLI 18000 (OTHER PROPULSION EQUIPMENT) AND SUBHEAD 71HZ/BLI 114000 (EOD UNDERWATER EQUIPMENT) WITH SUBHEAD 71UQ/BLI 097500 (MINESWEEPING EQUIPMENT).

Mine Sweeping: This program provides systems, subsystems, and engineering change kits for minesweeping and mine neutralization systems used by the surface MCM force. Systems and equipments are used for magnetic, acoustic, and mechanical type minesweeping systems, plus the AN/SLQ-48 (MNS) for mine neutralization. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with specified requirements.

Other Propulsion Equipment: Includes Solar Marine Gas Turbine (MGT) Modification Program for improvement to T1302S gas turbine engines used for driving electric pulse generators on MCM Class ships; MCM/MHC Diesel Engine Improvement Program to improve reliability and maintainability of installed MCM and MHC diesel engines; and Integrated Ship Control System (ISCS) to replace the existing MCM Machinery Control System (MCS) and implement condition-based maintenance. Procurement of improved hardware, including modification kits as a result of Product Improvement Programs, is essential for maintaining/increasing engine reliability. Procurement of special tooling and support equipment is required to facilitate incorporation of modifications as well as enable routine and expanded repair of equipment to improve life cycle support. The procurement of technical documentation, e.g., technical manuals, PMS, Level III production drawings, etc., is essential to maintain complete life cycle support for these engines and related equipment.

Underwater EOD Equipment: This program supports Explosive Ordnance Disposal (EOD) Groups, Units and Detachments worldwide. This EOD diving program supplies EOD forces with the necessary diving and diving related equipment to fulfill assigned missions.

UQ013-AN/SLQ-48 UPGRADE: Funding is to procure retrofit kits for the AN/SLQ-48 MNS and Handling System to improve vehicle maneuverability and system interoperability.

UQ014-MAGNETIC SWEEP CABLES: The Magnetic Minesweeping Cables provide MCM-1 Class ships with the capability of magnetic minesweeping. Types of cables to be procured are S-3, CL-3, and Q3. New cable assemblies will be procured to phase out obsolete equipment.

UQ015-SOLAR MARINE GAS TURBINE (MGT) MODIFICATION MCM: Provides a standardized engine configuration, introduces reliability/maintainability improvements, and implements an effective Integrated Logistics Support (ILS) program realizing fleet mission readiness improvements while supporting the operation of the Regional Repair Center.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE

**MINESWEEPING EQUIPMENT/BLI #0975**

UQ016-MCM/MHC DIESEL ENGINE PROGRAM: Isotta Fraschini (I-F) diesel engines installed in MCM/MHC class ships have design deficiencies that significantly effect reliability and maintainability, and severely undermine the ability to operate and maintain the ship as designed with reduced manning. This program is critical to correct design deficiencies and improve the Mean-Time-Between-Failure for increased ship operational availability. MCM and MHC class ships are minimally-manned, and four ships have been forward deployed since FY96, providing valuable operational experience for the identification of required system improvements. Increased reliability and maintainability is acheived through the implementation of engineering changes such as MACHALTs and associated engineering; ILS; improved spare parts support; correction of cooling system design deficiencies; improvements to the fuel system, lube oil system, drive train, and main bearings; reduction of sea water corrosion; configuration control, and increased spare parts sourcing/availability. CR & EI funded for MHC EFI.

UQ017-INTEGRATED SHIP CONTROL SYSTEM (ISCS): Funds the MCM ISCS to implement condition-based maintenance, reduce shipboard preventive maintenance, improve equipment reliability (by detecting changes in equipment performance prior to catastrophic failure), and permit shipboard training, while also replacing the existing MCM Machinery Control System (MCS). The MCS replacement will bring all MCM ships to a common configuration.

UQ018-EOD INFLATABLE CRAFT: Provides EOD units with sturdy lightwirhgt, low influence signature improved inflatable craft to support MK 16 diving in an MCM environmentThese crafts will provide EOD units with improved inflatable crafts to support MK 16 diving in an MCM environment. These crafts will be sturdy, yet lightweight and will consider low influence signature requirements.

UQ019-OUTFITTING EOD DETACHMENT: This line provides for the outfitting of diving systems/equipment which enhance mission capability for established EOD detachments.

UQ020-VERY SHALLOW WATER MINE COUNTERMEASURES (VSW MCM) INITIAL OUTFITTING: Provides for procurement of equipment and hardware supporting VSW MCM Detachment operations. This equipment and hardware includes specialized MCM Unmanned Underwater Vehicle's for the VSW MCM Detachment and ARG organic MCM forces.

UQ021-C4I UPGRADES: Provides for the upgrade of existing EOD Mobile Communication Systems (MCS) to C4I requirements.

UQ022-UNDERWATER ACOUSTIC FIRING SYSTEM: Provides the capability to acoustically actuate an explosive charge from a stand off point to neutralize a mine or activate a lift device.

UQ023-OBSTACLE AVOIDANCE SONAR: Provides EOD MCM and Area Search detachments with the capability to avoid mines ahead of their small craft during operations within a mine field (formerly Forward Looking Sonar).

UQ024-TRANSITION FROM GASOLINE: Provides for the replacement of current gasoline powered equipment with diesel powered equipment for use by EOD Detachments when deployed shipboard or when transported by aircraft.

UQ025-DIVER U/W IMAGING: Provides a next generation replacement for the AN/PQS-2A Sonar which will provide increased accuracy for detection and classification of mine-like objects in reduced visibility. Will also provide diver with an underwater navigation capability.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE

**MINESWEEPING EQUIPMENT/BLI #0975**

UQ026-OUTFITTING EOD MOBILE UNIT: Provides for outfitting of diving system equipment which enhance mission capability for established EOD Mobile Units.

UQ027-ADVANCED UNDERWATER BREATHING APPARATUS ENHANCEMENT-Provides for the next generation product improvement of the MK 16 UBA's O2 tolerances to increase diver capability and reduce time on target in the MCM environment.

UQ028-FORCE PROTECTION EQUIPMENT: Provides force protection equipment for sailors to conduct maritime interdiction operations.

UQ029-DYAD MINE COUNTERMEASURES: A device which creates the magnetic signature used to sweep magnetic influence mines.

UQ830-PRODUCTION ENGINEERING: Provides production engineering in support of the above procurements. This includes conduct of first article tests, factory acceptance tests, and other production support efforts directly related to delivery of the hardware. In addition for EOD equipment, review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the EOD unified procurement system.

UQ850-PRODUCT IMPROVEMENT: Engineering services to improve EOD Systems/Equipment in production to improve maintainability, utilize current technology, and decrease cost.

UQ860-ACCEPTANCE, TEST, AND EVALUATION: Test, inspect, and accept first articles and, on a 100% basis, the production quantity of EOD tools and equipment being procured. These tools are man-rated, and proper functioning of each item must be verified.

UQTNG-INITIAL TRAINING: Provide training support packages which include curriculum material and training aids for Underwater EOD equipment

Note: Minesweeping Equipment, BLI 0975, controls for FY 2000 and 2001 reflect the consolidation of Other Propulsion Equipment, 018000; Minesweeping Equipment, BLI 0975 and EOD Equipment, BLI 114000.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY/BA-1**

P-1 ITEM NOMENCLATURE

**MINESWEEPING EQUIPMENT/BLI #0975**

UQ030-IMPROVED MCM INFLATABLE CRAFT: These crafts will provide EOD units an improved craft that are lightweight, multi-functional, with no magnetic and extremely low acoustic signature for MCM and over-the-horizon operations.

UQ031-ADVANCED UNDERWATER BREATHING APPARATUS: Procurement of the next generation MCM diving rig.

UQ032-ADVANCED U/W LIMPET MINE EQUIPMENT: Provides equipment to the EOD units to enhance their ability to detect, neutralize and gather intelligence on underwater limpet and special attach mines.

UQ033-EMERGENCY EVALUATION DIVER SYSTEM: Provides a lightweight 2 person portable stretcher that is air transportable for emergency treatment for hyperbaric related illness for embarked organic EOD forces deployed in Naval Task Groups.

UQ034-MICRO DIVER DISPLAY: Provides a low magnetic miniature display for the underwater imaging system to enhance capabilities for identification of mine-like objects in the EOD and VSW MCM zone.

UQ035-ADVANCE MINITURE MINE ID SENSOR: Provides a low magnetic high frequency sonar array to the underwater imaging system to conduct stand-off identification of mines.

P-1 SHOPPING LIST

CLASSIFICATION:

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                           |                               |         |                                    |          |           | Weapon System |                                                                  |           |            |          |           | DATE:<br>February 2000 |          |           |            |
|---------------------------------------------------------------|-------------------------------|---------|------------------------------------|----------|-----------|---------------|------------------------------------------------------------------|-----------|------------|----------|-----------|------------------------|----------|-----------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy/BA-1 |                               |         |                                    |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>MINSWEEPING EQUIPMENT/BLI #0975 |           |            |          |           |                        |          |           |            |
| COST CODE                                                     | ELEMENT OF COST               | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |               |                                                                  |           |            |          |           |                        |          |           |            |
|                                                               |                               |         | Prior Years                        | FY 1999  |           |               | FY 2000                                                          |           |            | FY 2001  |           |                        |          |           |            |
|                                                               |                               |         | Total Cost                         | Quantity | Unit Cost | Total Cost    | Quantity                                                         | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost             | Quantity | Unit Cost | Total Cost |
|                                                               | SPONSOR N85                   |         |                                    |          |           |               |                                                                  |           |            |          |           |                        |          |           |            |
| UQ014                                                         | MAGNETIC SWEEP CABLES         | A       |                                    |          |           | Various       | Various                                                          | 391       | Various    | Various  | 695       | Various                | Various  | 397       |            |
| UQ015                                                         | SOLAR MGMT MOD PROGRAM        | A       |                                    |          |           |               |                                                                  |           |            |          | 351       |                        |          | 343       |            |
| UQ016                                                         | MCM/MHC DIESEL ENGINE PROGRAM | A       |                                    |          |           |               |                                                                  |           |            |          | 760       |                        |          | 2,440     |            |
| UQ017                                                         | INTEGRATED SHIP CONTROL SYS   | A       |                                    |          |           |               |                                                                  |           |            |          | 7,283     |                        |          | 5,318     |            |
| UQ018                                                         | INFLATABLE CRAFT              | A       |                                    |          |           |               |                                                                  |           | 7          | 59       | 413       | 8                      | 60       | 480       |            |
| UQ019                                                         | OUTFITTING EOD DET            | A       |                                    |          |           |               |                                                                  |           | 7          | 370      | 2,591     |                        |          |           |            |
| UQ020                                                         | VSWMCM INITIAL OUTFITTING     | A       |                                    |          |           |               |                                                                  |           |            |          | 1,926     |                        |          | 819       |            |
| UQ021                                                         | C4I UPGRADES                  | A       |                                    |          |           |               |                                                                  |           |            |          | 294       |                        |          | 289       |            |
| UQ023                                                         | OBSTACLE AVOIDANCE            | A       |                                    |          |           |               |                                                                  |           | 2          | 140      | 280       |                        |          |           |            |
| UQ024                                                         | TRANSITION FROM GASOLINE      | A       |                                    |          |           |               |                                                                  |           |            |          | 1,029     |                        |          | 1,294     |            |
| UQ026                                                         | OUTFITTING EOD MOBILE UNIT    | A       |                                    |          |           |               |                                                                  |           |            |          |           |                        |          | 1,656     |            |
| UQ027                                                         | ADV UBA ENHANCEMENT           | A       |                                    |          |           |               |                                                                  |           |            |          |           | 300                    | 4        | 1,200     |            |
| UQ028                                                         | FORCE PROTECTION EQUIPMENT    | A       |                                    |          |           |               |                                                                  |           |            |          |           |                        |          | 718       |            |
| UQ029                                                         | DAYD                          | A       |                                    |          |           |               |                                                                  |           | 5          | 400      | 2,000     |                        |          |           |            |
| UQ830                                                         | PRODUCTION ENGINEERING        | A       |                                    |          |           |               |                                                                  |           |            |          | 391       |                        |          | 482       |            |
| UQ850                                                         | PRODUCT IMPROVEMENT           | A       |                                    |          |           |               |                                                                  |           |            |          | 1,058     |                        |          | 600       |            |
| UQ860                                                         | ACCEPTANCE, TEST & EVAL       | A       |                                    |          |           |               |                                                                  |           |            |          | 390       |                        |          | 289       |            |
| UQTNG                                                         | INITIAL TRAINING              |         |                                    |          |           |               |                                                                  |           |            |          | 123       |                        |          | 264       |            |
|                                                               |                               |         | 0                                  |          |           | 0             |                                                                  | 391       |            |          | 19,584    |                        |          | 16,589    |            |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) |          |                       |                    |                   | Weapon System                    |                            |               | A. DATE                      |                           |                                |  |
|--------------------------------------------------------|----------|-----------------------|--------------------|-------------------|----------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE         |                            |               |                              |                           | SUBHEAD                        |  |
| Other Procurement, Navy/BA-1                           |          |                       |                    |                   | MINESWEEPING EQUIPMENT/BLI #0975 |                            |               |                              |                           | 71UQ                           |  |
| Cost Element/<br>FISCAL YEAR                           | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE     | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |  |
| FISCAL YEAR(99)<br>UQ014                               | Various  | Various               |                    |                   | WR                               | NSWC(CSS), PC, FL          | 7/99          | 1/00                         | YES                       |                                |  |
| FISCAL YEAR(00)<br>UQ014                               | Various  | Various               | NAVSEA             |                   | C/FFP                            | COGENT DEFENSE SYS,UK      | 12/99         | 6/00                         | YES                       |                                |  |
| UQ018                                                  | 7        | 59                    |                    |                   | WR                               | CINCLANT,VA/SURFPAC,CA     | 2/00          | 2/01                         | YES                       |                                |  |
| UQ019                                                  | 7        | 370                   |                    |                   | WR                               | CINCLANT,VA/SURFPAC,CA     | 2/00          | 2/01                         | YES                       |                                |  |
| UQ023                                                  | 2        | 140                   |                    |                   | WR                               | NEODTD, IH, MD             | 2/00          | 2/01                         | YES                       |                                |  |
| UQ029                                                  | 5        | 400                   | NRCC, SINGAPORE    |                   | TBD                              | TBD                        | 6/00          | 10/00                        | YES                       |                                |  |
| FISCAL YEAR(01)<br>UQ014                               | Various  | Various               | NAVSEA             |                   | C/FFP                            | UNKNOWN                    | 12/00         | 6/01                         | YES                       |                                |  |
| UQ018                                                  | 8        | 60                    |                    |                   | WR                               | CINCLANT,VA/SURFPAC,CA     | 2/01          | 2/02                         | YES                       |                                |  |
| UQ027                                                  | 300      | 4                     |                    |                   | WR                               | NEODTD, IH, MD             | 2/01          | 6/01                         | YES                       |                                |  |
| D. REMARKS                                             |          |                       |                    |                   |                                  |                            |               |                              |                           |                                |  |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                 |                |            |  |         |         |         |         |                                                                                                                                                                 |         | DATE:<br>FEBRUARY 2000 |  |                |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|--|---------|---------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------|--|----------------|--------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA-1: Ships Support Equipment</b><br>Program Element for Code B Items:                                                                                                                                                                                                                                                            |                |            |  |         |         |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><br><p style="text-align: center;"><b>HM&amp;E ITEMS UNDER \$2 MILLION (81HK) (0980)</b></p> OTHER RELATED PROGRM ELEMENTS |         |                        |  |                |        |
|                                                                                                                                                                                                                                                                                                                                                                                                         | Prior<br>Years | ID<br>Code |  | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003                                                                                                                                                         | FY 2004 | FY 2005                |  | To<br>Complete | Total  |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                |                |            |  |         |         |         |         |                                                                                                                                                                 |         |                        |  |                | 0      |
| EQUIPMENT COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                         |                |            |  | \$50.7  | 0*      | 0*      | 0*      | 0*                                                                                                                                                              | 0*      | 0*                     |  |                | \$50.7 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                            |                |            |  |         |         |         |         |                                                                                                                                                                 |         |                        |  |                | 0      |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                               |                |            |  |         |         |         |         |                                                                                                                                                                 |         |                        |  |                |        |
| This program provides support for all "S" cognizance equipment for submarines, surface ships, and aircraft carriers which are not in any specific category. These components will be used to accomplish both shipyard/type commander alterations, fill Fleet requisitions from casualties, attrition, etc. as well as procure allowance items as required by the Consolidated Shipboard Allowance List. |                |            |  |         |         |         |         |                                                                                                                                                                 |         |                        |  |                |        |
| This program was consolidated with P-1 #24, Items Under \$5 Million, BLI:0981, in FY 2000.                                                                                                                                                                                                                                                                                                              |                |            |  |         |         |         |         |                                                                                                                                                                 |         |                        |  |                |        |

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| BUDGET ITEM JUSTIFICATION SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |               |                |               | DATE: <b>February 2000</b>            |                |                |                |             |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|---------------|----------------|---------------|---------------------------------------|----------------|----------------|----------------|-------------|----------------|
| P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |               |                |               |                                       |                |                |                |             |                |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |         |               |                |               | P-1 ITEM NOMENCLATURE                 |                |                |                |             |                |
| <b>OTHER PROCUREMENT, NAVY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |         |         |               |                |               | ITEMS UNDER \$5 MILLION (81LT) (0981) |                |                |                |             |                |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |         |               |                |               | Other Related Program Elements        |                |                |                |             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Prior Years | ID Code | FY 1998 | FY 1999       | FY 2000        | FY 2001       | FY 2002                               | FY 2003        | FY 2004        | FY 2005        | To Complete | Total          |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |         |               |                |               |                                       |                |                |                |             |                |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         | <b>\$71.5</b> | <b>\$127.7</b> | <b>\$58.9</b> | <b>\$101.2</b>                        | <b>\$323.1</b> | <b>\$114.7</b> | <b>\$120.2</b> |             | <b>\$917.3</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |               |                |               |                                       |                |                |                |             | <b>\$0.0</b>   |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |               |                |               |                                       |                |                |                |             |                |
| <p>This request provides support for all "S" cognizance equipment for submarines, surface ships, and aircraft carriers which are not in any specific category. These components will be used to accomplish both shipyard/Type Commander (TYCOM) alterations, fill Fleet requisitions from casualties, attrition, etc. as well as procure allowance items as required by the Consolidated Shipboard Allowance List (CSAL). A list of these items is provided below. This category purchases and installs various machinery pumps, generators, ships propellers and shafts, and steam propulsion items. Also included in this category are the Integrated Condition Assessment System (ICAS) and Smart Ship Initiatives. Additional explanatory notes are provided at the end of this section.</p> <p><b>LT010 - LANDING CRAFT AIR CUSHION (LCAC)</b> - This line will fund material procurement and SHIPALT installation and design for the LCAC Fleet Modernization Program (FMP). Funds in this line are for modifications on the craft to enhance military capabilities directed by CNO or technical characteristics when warranted by reason of safety, reliability and/or cost effectiveness. Advanced technology used in LCAC demands constant and continual modifications to ensure proper mission performance and maintain craft configuration to those new craft. There is a direct relationship between the number of LCAC both delivered and planned and the funding in the program line. In addition, funding will also support modification on two Full Mission Trainers (FMT).</p> <p><b>LT020 - SUPPORTING ARMS COORDINATION CENTER (SACC) AUTOMATION</b> - The SACC initiative will automate the communications and data flow for fire and supporting arms for marine forces ashore. This effort will convert the current manual and voice accomplished process. It will also provide interface with the Advance Combat Direction System (ACDS) which brings the automated functions of supporting arms into the coherent tactical picture. The procurement items are jam boxes, Automated Distribution Network Systems (ADNS), and racks.</p> <p><b>LT030 - LHA MIDLIFE UPGRADE</b> - This program supports material procurement and installation of engineering solutions developed as part of the LHA Mid-Life Maintenance Upgrade Program. This program is a joint OPNAV, CINCLANTFLT, SURFLANT, CINCPACFLT, and SURFPAC initiative to resolve maintenance deficiencies, increase readiness and reduce future maintenance costs enabling the ships to reach their service life. Joint Fleet Priority #600 as assigned by OPNAV; NAVSEA, TYCOMs and LHA Mid-Life Management Team, will procure and install items such as CHT Systems Upgrades, Star Rotary Compressors, and 300 Ton A/C Plant, and Reverse Osmosis Desalination units. Also included is the boiler desuperheater. Because the LHA boiler desuperheater is so large, it prevents access to the boiler tubes from the water drum. A leaking boiler tube therefore requires about five days to repair, considering that a 2700 lb. desuperheater must be removed and replaced. The capability to quickly plug a leaking tube is vital for meeting commitments. A new desuperheater has been designed that permits access, and SHIPALT number LHA 660 has been assigned. Installation of this SHIPALT will also help resolve water drum blind flange leakage which has occurred on various LHA. In addition, Joint Fleet Priority #600 as assigned by OPNAV, NAVSEA, TYCOMs and LHA Mid Life Management Team, will procure and install GPM Fire Pumps. Fluid Systems on board navy surface ships and submarines consist of any distributed piping system carrying (continued on the next page)</p> |             |         |         |               |                |               |                                       |                |                |                |             |                |

P-1 SHOPPING LIST

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

**OTHER PROCUREMENT, NAVY**

ITEMS UNDER \$5 MILLION (81LT) (0981)

**LT030 - LHA MIDLIFE UPGRADE (cont.)** - freshwater, saltwater, steam, fuel, lube oil or air and all of the ancillary hardware that supports the system, such as pumps, pipe hangers, turbines, motors, etc. These systems suffer abuse and degradation by virtue of the operating conditions within the conduit, (i.e. Piping), and the equipment transporting the fluid. The maintenance and upkeep of these systems and associated support equipment are the biggest life cycle cost drivers for HM&E equipment in the operating navy. Proper investigation and utilization of commercially available state of the art technology can drastically reduce maintenance costs, extend the operating life of the equipment and increase the operational availability and reliability of the equipment. This program provides for immediate fixes to reduce maintenance costs through ready availability of rotating assemblies. It incorporates engineering solutions developed as part of the LHA Mid-Life Maintenance Upgrade Program.

**LT040 - AEC (ASSESSMENT OF EQUIPMENT CONDITION)** - This supports the implementation of Condition Based Maintenance (CBM) by providing work package validation for HM&E systems, pre-deployment HM&E systems condition assessment, OJT and repair assistance to ships during TYCOMs TARGET process. AEC visits facilitate early identification of material deficiencies and eliminate unnecessary repairs, provide meaningful sea/shore rotation opportunities for enlisted maintainers and hands on training of ship's force for greater self-sufficiency. These funds are for the outfitting and periodic replacement of the AEC team's Test Measurement and Diagnostic Equipment (TMDE) inventories, provide deckplate diagnostic capability to improve the quality of AEC process and products and to leverage technology to streamline the visit process. Many of these items are specialized, state of the art, high cost instruments not O&M,N supportable. Examples of OPN supported TMDE are: microprocessor based instruments, vibration monitoring equipment, alignment instruments, leak detectors, flow meters, IR cameras, etc. Although the overall number of ships is decreasing, the scope of AEC has increased to meet TYCOM requirements. Procurement of state of the art TMDE is necessary to support new ship classes as they are inducted into the operating fleet and to replace aging TMDE.

**LT050 - COMMAND AND CONTROL UPGRADES** - Modifications to provide enhancements for Fleet Commanders and embarked staff. The Navy has four flagships or command ships; one for each of the three numbered fleets and one for the Middle East Forces in the Persian Gulf. These ships serve as headquarters for the numbered fleet commanders and provide extensive communications, support and berthing for embarked staff. Their mission is to provide support for command and control centers.

|                          |                            |
|--------------------------|----------------------------|
| Commander, Second Fleet  | USS MOUNT WHITNEY (LCC 20) |
| Commander, Third Fleet   | USS CORONADO (AGF 11)      |
| Commander, Sixth Fleet   | USS LASALLE (AGF 3)        |
| Commander, Seventh Fleet | USS BLUE RIDGE (LCC 19)    |

**LT060 - MACHALTs** - The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipment of systems and have limited system ramifications. The MACHALT program enables changes to be accomplished in a more expeditious manner and eliminate them from the formal SHIPALT process. MACHALTs are most effective for multi-class alterations. One MACHALT can replace several SHIPALTs in the system.

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CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION

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February 2000

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT, NAVY

ITEMS UNDER \$5 MILLION (81LT) (0981)

**LT830 - PRODUCTION ENGINEERING (N85, N86, AND N88)** - The review and approval of any production contract technical documentation, or the separate development of this documentation to include: Technical Manuals, Planned Maintenance System (PMS), Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts List (APL); engineering support for final design reviews. This work can be accomplished by NSWC PHILADELPHIA as the In-Service Engineering Agent (ISEA), other Naval activities or contractors as appropriate.

**LT080 - 363 TON AIR CONDITIONING (A/C) UNIT** - This program procures and installs Air Conditioning Plants on CVN-68 Class. It provides the necessary Air Conditioning capacity to keep pace with installed and planned installations of systems and equipment requiring air conditioning or chilled water for operation. This program is part of the aircraft carrier critical distributive systems program.

**LT090- HYDRAULIC EXPANSION EQUIPMENT FOR LARGER BOILER TUBES** - Conventional tube installation involves expanding the tube into a tubesheet using cage assembly containing roller pins and a tapered mandrel. Hydraulic tube installation is accomplished using uniform water pressure. Water is forced into a mandrel, which is placed into the tube hole/tube sheet at a preset pressure. A complete tube joint expansion can be done in 5-10 seconds compared to the preset method of up to five minutes. There is no specific Inventory Objective (I.O.) for this project.

**LT110- VARIOUS PROPELLERS AND SHAFTS** - DDG 51 CL: (a) BLADE SET, PORT/STBD, (b) HUB SET PORT/STBD, (c) PROP SHAFT, (d) STERN TUBE SHAFTS, AND (e) OD BOXES PORT/STBD; CG-47 CL: (a) OD BOXES PORT/STBD; CG66-73 CL: (a) HUB SET PORT/STBD AND (b) OD BOXES PORT/STBD

The Maintenance Stock Objective (MSO) for Blade Set, Port/STBD DDG 51 CL is 11 to support the DDG 51 CL ships. One Shipset was procured by SCN. Five units have been procured in Prior years. Five additional units are required to complete MSO. Three are included in the Budget years. Two are to be procured in subsequent years. To date, one shipset has been issued from stock to satisfy an emergency requirement. No carcasses were returned for tis requirement as they were damaged beyond economic repair. Unit cost is estimated at \$779K. The MSO for DDG 51 CL Hub Sets is 9 to support the DDG 51 CL ships. One shipset was procured by SCN. One unit was procured in prior years. Four are included in the budget years. Three are to be procured in subsequent years. Unit Cost is estimated at \$779K. The MSO for Prop Shaft DDG 51 CL is 12 to support DDG 51 CL ships. Two have been procured by SCN. One was procured in prior years. Nine are required to complete MSO. Four are included in the budget years. Five are to be procured in subsequent years. Unit cost is estimated at \$534K. Stern Tube Shaft DDG-51CL the MSO for Stern Tube Shaft DDG 51 CL is four to support DDG 51 CL ships. One shipset was procured in prior years. Three additional units are required to complete MSO. One unit is included in budget years, two to be procured in subsequent years. The MSO for OD Boxes, Port/STBD CG 47 CL is four to support the CG 47 CL ships. One unit was procured in prior years. Three additional units are required to complete MSO. Three units are included in budget years. During the past three years, three Stbd OD Boxes and five Port OD Boxes have been issued from stock to satisfy emergent requirements. Due to this demand, significant pressure exists on the one shipset of assets. A failure to recover the asset through repair would put CG 47 CL OD Boxes support in jeopardy. The MSO for OD Boxes, Port/Stbd DDG 51CL is six to support the DDG 51 CL ships. One unit has been procured in prior years. Five additional units are required to complete MSO. Five units are included in budget years. Hub Set Port/STBD CG 66-73 CL because of a change in the ship propulsion system, the Hubs installed in the CG 66 thru 73 are a different configuration from the prior ships of the CG 47 class. The MSO is two to support the eight ships. Two additional units are required to complete MSO. Two sets are included in the budget years. The MSO for OD Boxes, Port/STBD CG 66-73 is two. One unit was procured in prior years. One unit is required to complete MSO. One unit is included in budget years.

P-1 SHOPPING LIST

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**BUDGET ITEM JUSTIFICATION SHEET  
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DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

**OTHER PROCUREMENT, NAVY**

ITEMS UNDER \$5 MILLION (81LT) (0981)

**LT120 - PROPULSION PLANT INSPECTION TOOLING** - The tooling currently in use by Steam Generating Plant Inspectors (SGPI) for inspection of boiler tubes is inefficient and antiquated. Funds will be utilized to procure latest technology inspection system tooling, i.e., laser-optic, ultrasonic, fiber-optic and electro-optic inspection systems. The inspection tooling will be placed at TYCOM designated Intermediate Maintenance Activities. There is no specific inventory objective for this project.

**LT130 - STEAM PROPULSION ITEMS** - This provides for several initiatives oriented to upgrading boiler efficiency and safety with downstream maintenance effectiveness. In particular, the items procured include GIS Safety Valves, Compact Water Jet Units, Low Level Conductivity Meters, WMB Recirculating Pump Improvement Items, Hydrostatic Tube Kits, and Chloride Meters.

**LT140 - SMART SHIP** - This provides for the procurement and installation of proven initiatives into several Navy ship classes including LSD 41/49 and Aircraft Carriers. These initiatives include Fiber Optic Ship-wide Area Network (WAN), Damage Control Quarters/Ballast Control System (DCQ/BCS), Integrated Bridge System (IBS), Machinery Control System (MCS), Remote Monitoring Cameras (RMC), and Integrated Comm Advanced Network (ICAN). The goal of the Smart Ship effort is to evaluate and select solutions which demonstrate major workload reductions while maintaining or improving readiness. Lessons learned and technology previously demonstrated on ships such as the CG 47 and the LSD 47 have confirmed the value and applicability of Smart Ship Technologies and will result in future life cycle cost avoidance in manpower and ship maintenance.

**LT150 - INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)** - This provides for ICAS procurement and installation in a variety of amphibious and surface combatants and aircraft carriers. ICAS is an installed, state of the art, automated system which can analyze hundreds of sensor inputs continuously. The heart of ICAS is the Machinery Work Station (MWS) which is an integrated software program. The MWS is a collection of electronic programs coupled to form the basis of a Condition Based Monitoring System (CBMS). MWS integrates measurement tools, performance analysis tools, and an expert inference image within a single integrated software package. The MWS is configurable to meet the maintenance needs of a wide variety of machinery and systems commonly found onboard Naval vessels. Much of the MWS' effectiveness is derived from its ability to measure and analyze maintenance information while operating from a single, configuration driven software shell. The ship classes scheduled to undergo the ICAS effort include: DD 963, FFG 7, LCC, AGF, LHA 1, LHD 1, AOE, and CV/CVN.

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY**

P-1 ITEM NOMENCLATURE

ITEMS UNDER \$5 MILLION (81LT) (0981)

**LT160 - MACHINERY PLANT UPGRADES (ICAN)** - ICAN provides core infrastructure (node rooms, air blown fiber optic cable plant, network services) for integrating voice, video and data systems. This capability is easily upgradable for rapid and cost effective expansion to support new technologies, such as IT-21, and is compatible with the Navy integrated Information Networks MOA (mandated by ASN (RDA)).

**LT170 - ALLOWANCE EQUIPAGE ROTATABLE POOL (AERP)** - The AERP is a rotatable pool program in which "A" condition (ready for issue/use) pumps are delivered to a submarine undergoing overhaul and switched with installed pumps. The removed pump is sent away for refurbishment and ultimately shipped to another submarine in overhaul. Assets are continually rotated between overhauls. Procurement is required to replace pumps that can no longer be repaired.

**LT180 - MACHINERY CONSOLES** - This effort will provide for machinery consoles upgrades for ARS-50 Class ships. The upgrades will replace the Machinery Console Systems (MCS) that are experiencing obsolescence and degradation problems. The new MCS will be a modern reliable distributed client-server system comprised of "Commercial Off-the-Shelf" (COTS) equipment. Like the existing system, it will control and monitor the propulsion, electrical, damage and auxiliary ARS-50 machinery systems. The new MCS design will be based on the MCM Integrated Ships Control System being successfully installed on the MCM-1 Class platform.

**LT200 - WATER TIGHT DOORS** - This effort addresses the high priority damage control deficiency and high maintenance costs related to watertight doors, chiefly on surface combatants. Problems include hinge strength and galvanic corrosion with aluminum doors, as well as hinge and sleeve upgrades. Procurements will include both aluminum doors, and hinge and sleeve upgrades.

**FY 00 -**

Aluminum Doors - 240 for \$1.32M

Hinge and Sleeve Upgrades 1,120 for \$1.68M

**FY 03 - 05 Budget is \$4.3M**

Aluminum Doors - 350 for \$2.0M

Hinge and Sleeve Upgrades 1,516 for \$2.3M

**LT210 - CVN69 (RCOH)** - Funding will be used to procure, conduct advance planning and install combat systems ship alterations on the USS Dwight D. Eisenhower (CVN69). These shipalts were deferred from the FY01 RCOH modernization package, due to funding restrictions, and will be installed during the SRA which will run concurrent to the PSA.

**LT5IN, LT6IN, LT8IN- INSTALLATION OF EQUIPMENT** - Funding is for installation of equipment including Fleet Modernization Program (FMP) Installation, Installation of training equipment, and installation of equipment in other shore facilities.

P-1 SHOPPING LIST

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40 CONTINUATION**

DATE:

**February 2000**

APPROPRIATION/BUDGET ACTIVITY

**OTHER PROCUREMENT, NAVY**

P-1 ITEM NOMENCLATURE

ITEMS UNDER \$5 MILLION (81LT) (0981)

**Explanatory Notes:**

**VARIOUS "S" COGNIZANCE SHIPS PROPELLERS AND SHAFTS** which are not listed as separate P-1 Items. A malfunctioning propeller or shaft can result in excessive vibration, noise, loss of speed or possible loss of motion. In addition, these items are susceptible to damage, have long repair lead time, and due to their increased size and weight, are becoming more difficult to transport. It is mandatory to store propellers/shafts at sufficient locations to avoid delaying ship's deployments. It should be noted that in addition to new propellers and shafts required to support active fleet ships, planning for spares to support ship classes still under construction such as CG-47 and AOE-6 and new ship classes being introduced such as DDG-51, must be accommodated. These propellers and shafts can be installed during drydocking, Selected Restricted Availability or Regular Overhaul and in the event of a casualty, propellers can be waterborne installed alongside a tender.

The Inventory Objective (I.O.) for propellers and shafts is a numerical quantity referred to as the "Maintenance Stock Objectives" (MSO). The MSO is a numerical quantity established for each propeller and shaft after considering: (1) the average annual demand, (2) Repair lead time, (3) safety level or the quantity required to be on hand to support unpredictable fluctuations in demand or delays in the normal refit cycle, (4) transportability considerations, and (5) Type Commanders review and recommendations. For ships entering the Fleet from the shipbuilding programs, the I.O.'s annual demand is based upon experience with similar type propellers and shafts for which supply/demand experience has been gained.

**VARIOUS STEAM PROPULSION EFFORTS** - The Steam Propulsion Improvement Program provides for ship movement through the water and in addition provides power to ships combat and habitability systems, whether electrical or steam dependent. At any given time, due to propulsion plant casualties ship propulsion systems may be operating at reduced capability, adversely affecting the ship's mission(s). The Steam Propulsion Improvement program encompasses steam and diesel propulsion surface ships in the fleet, and provides for material upgrades to propulsion systems resulting in increased readiness, safety and reliability. Items can be installed during a Regular Overhaul (ROH), Selected Restricted Availability (SRA), Restricted availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team (AIT).

P-1 SHOPPING LIST

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                      |                                                          |         |                                    | Weapon System |                                                                        |            | DATE:<br>February 2000 |                |            |          |                |            |          |           |            |  |
|----------------------------------------------------------|----------------------------------------------------------|---------|------------------------------------|---------------|------------------------------------------------------------------------|------------|------------------------|----------------|------------|----------|----------------|------------|----------|-----------|------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy |                                                          |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>ITEMS UNDER \$5 MILLION (81LT) (0981) |            |                        |                |            |          |                |            |          |           |            |  |
| COST CODE                                                | ELEMENT OF COST                                          | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          |                                                          |         | Prior Years                        | FY 1999       |                                                                        |            | FY 2000                |                |            | FY 2001  |                |            |          |           |            |  |
|                                                          |                                                          |         | Total Cost                         | Quantity      | Unit Cost                                                              | Total Cost | Quantity               | Unit Cost      | Total Cost | Quantity | Unit Cost      | Total Cost | Quantity | Unit Cost | Total Cost |  |
|                                                          | <b>EXPEDITIONARY WARFARE N85</b>                         |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
| LT010                                                    | MOD KITS LAND CRAFT CUSHION                              | A       |                                    |               |                                                                        |            |                        | 1,493          |            |          | 1,082          |            |          |           |            |  |
| LT030                                                    | <b>MIDLIFE UPGRADE</b>                                   |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | REVERSE OSMOSIS                                          | A       |                                    |               |                                                                        | 4          | 392                    | 1,567          | 12         | 392      | 4,704          |            |          |           |            |  |
|                                                          | UPGRADE CHT SYSTEMS                                      | A       |                                    |               |                                                                        | 1          | 507                    | 507            | 1          | 507      | 507            |            |          |           |            |  |
|                                                          | STAR ROTARY COMPRESSORS                                  | A       |                                    |               |                                                                        | 4          | 223                    | 892            | 4          | 234      | 936            |            |          |           |            |  |
|                                                          | 300 TON AC PLANTS                                        | A       |                                    |               |                                                                        | 2          | 1,068                  | 2,136          | 1          | 953      | 953            |            |          |           |            |  |
|                                                          | BALLAST DEBALLAST                                        |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | LHA MIDLIFE GPM FIRE PUMPS                               | A       |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | FLUID SYSTEMS IMPROVEMENT                                | A       |                                    |               |                                                                        |            |                        | 315            | N/A        |          |                |            |          |           |            |  |
|                                                          | BOILER LOW PROFILE DESUPERHTRS                           |         |                                    |               |                                                                        | 2          | 94                     | 187            | 6          | 94       | 562            |            |          |           |            |  |
|                                                          | <b>SUBTOTAL</b>                                          |         |                                    |               |                                                                        |            |                        | <b>\$5,604</b> |            |          | <b>\$7,662</b> |            |          |           |            |  |
|                                                          | <b>SURFACE N86</b>                                       |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
| LT040                                                    | AEC                                                      | A       |                                    |               |                                                                        |            |                        | 389            |            |          | 741            |            |          |           |            |  |
| LT050                                                    | <b>COMMAND &amp; CONTROL UPGRADE</b>                     |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | GENERATORS (1200 kw)                                     |         |                                    |               |                                                                        |            |                        |                | 2          | 787      | 1,573          |            |          |           |            |  |
|                                                          | A/C PLANTS (125 TON)                                     |         |                                    |               |                                                                        |            |                        |                | 1          | 140      | 140            |            |          |           |            |  |
|                                                          | LPAC (LOW PRESS AIR COMP)                                |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | SOLID STATE FREQ CONV (SSFC)                             |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | SLEWING ARM DAVIT (SLAD)                                 |         |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | COMMAND & CONTROL (Pump, Motor Assemblies for A/C Plant) | A       |                                    |               |                                                                        |            |                        |                |            |          |                |            |          |           |            |  |
|                                                          | <b>SUBTOTAL</b>                                          |         |                                    |               |                                                                        |            |                        | <b>\$0</b>     |            |          | <b>\$1,713</b> |            |          |           |            |  |
| LT060                                                    | MACHALTS                                                 | A       |                                    |               |                                                                        |            |                        | 3,942          |            |          | 6,552          |            |          |           |            |  |

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| WEAPONS SYSTEM COST ANALYSIS  |                                 |         |                                    |          |           | Weapon System                 |          |                |            |          |                | DATE:                                 |          |           |            |                |
|-------------------------------|---------------------------------|---------|------------------------------------|----------|-----------|-------------------------------|----------|----------------|------------|----------|----------------|---------------------------------------|----------|-----------|------------|----------------|
| P-5                           |                                 |         |                                    |          |           | P-1 ITEM NOMENCLATURE/SUBHEAD |          |                |            |          |                | February 2000                         |          |           |            |                |
| APPROPRIATION/BUDGET ACTIVITY |                                 |         |                                    |          |           | ID Code                       |          |                |            |          |                | ITEMS UNDER \$5 MILLION (81LT) (0981) |          |           |            |                |
| Other Procurement, Navy       |                                 |         |                                    |          |           |                               |          |                |            |          |                |                                       |          |           |            |                |
| COST CODE                     | ELEMENT OF COST                 | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |                               |          |                |            |          |                |                                       |          |           |            |                |
|                               |                                 |         | Prior Years                        | FY 1999  |           |                               | FY 2000  |                |            | FY 2001  |                |                                       |          |           |            |                |
|                               |                                 |         | Total Cost                         | Quantity | Unit Cost | Total Cost                    | Quantity | Unit Cost      | Total Cost | Quantity | Unit Cost      | Total Cost                            | Quantity | Unit Cost | Total Cost |                |
| <b>LT110</b>                  | <b>PROPELLERS AND SHAFTS</b>    |         |                                    |          |           |                               |          |                |            |          |                |                                       |          |           |            |                |
|                               | BLADE SET PORT/STBD, DDG-51 CL  | A       |                                    |          |           |                               |          |                |            |          |                |                                       |          |           |            |                |
|                               | HUB SET PORT/STBD, DDG-51 CL    | A       |                                    |          |           | 1                             | 900      | 900            | 1          | 900      | 900            |                                       |          |           |            |                |
|                               | HUB SET PORT/STBD, CG 66-73     | A       |                                    |          |           |                               |          |                | 1          | 895      | 895            |                                       |          |           |            |                |
|                               | PROP SHAFT DDG-51 CL            | A       |                                    |          |           |                               |          |                |            |          |                |                                       |          |           |            |                |
|                               | OD BOXES CG47 CL                |         |                                    |          |           |                               |          |                | 1          | 216      | 216            |                                       |          |           |            |                |
|                               | OD BOXES DDG51-CL               |         |                                    |          |           |                               |          |                | 2          | 218      | 436            |                                       |          |           |            |                |
|                               | OD BOXES CG 66-73 CL            |         |                                    |          |           |                               |          |                | 1          | 200      | 200            |                                       |          |           |            |                |
|                               | <b>SUBTOTAL</b>                 |         |                                    |          |           |                               |          | <b>\$900</b>   |            |          | <b>\$2,647</b> |                                       |          |           |            | <b>\$0</b>     |
| <b>LT120</b>                  | PROPULSION PLANT INSPECTION     | A       |                                    |          |           |                               |          | 30             |            |          | 30             |                                       |          |           |            | 19             |
| <b>LT130</b>                  | STEAM PROPULSION ITEMS          |         |                                    |          |           |                               |          |                | 10         | 77       | 766            |                                       |          |           |            |                |
| <b>LT180</b>                  | MACHINERY CONSOLES - ARS 50 CL  |         |                                    |          |           |                               |          |                | 1          | 1,500    | 1,500          |                                       |          |           |            |                |
| <b>LT200</b>                  | WATER TIGHT DOORS               |         |                                    |          |           |                               |          |                |            |          | 3,000          |                                       |          |           |            |                |
| <b>LT830</b>                  | PRODUCTION ENGINEERING/HM&B     | A       |                                    |          |           |                               |          | 191            |            |          | 202            |                                       |          |           |            |                |
|                               | PRODUCTION ENGINEERING/Prop.    | A       |                                    |          |           |                               |          | 12             |            |          | 6              |                                       |          |           |            | 5              |
|                               | PRODUCTION ENGINEERING/Props    | A       |                                    |          |           |                               |          | 18             |            |          | 139            |                                       |          |           |            |                |
|                               | <b>AIRCRAFT CARRIERS - N88</b>  |         |                                    |          |           |                               |          |                |            |          |                |                                       |          |           |            |                |
|                               | PRODUCTION ENGINEERING/Props CV |         |                                    |          |           |                               |          | 21             |            |          | 98             |                                       |          |           |            | 87             |
|                               | <b>SUBTOTAL (PROD ENG)</b>      |         |                                    |          |           |                               |          | <b>\$242</b>   |            |          | <b>\$445</b>   |                                       |          |           |            | <b>\$92</b>    |
| <b>LT080</b>                  | 363 TON A/C PLANT               | A       |                                    |          |           | 2                             | 891      | 1,782          | 2          | 887      | 1,773          | 3                                     | 962      |           |            | 2,887          |
| <b>LT120</b>                  | PROPULSION PLANT INSPECTION     | A       |                                    |          |           |                               |          | 217            |            |          | 149            |                                       |          |           |            | 164            |
| <b>LT090</b>                  | HYDRAUL EXP BOIP LG BOILER TUB  | A       |                                    |          |           |                               |          | 32             |            |          |                |                                       |          |           |            |                |
|                               | <b>SUBTOTAL</b>                 |         |                                    |          |           |                               |          | <b>\$2,031</b> |            |          | <b>\$1,922</b> |                                       |          |           |            | <b>\$3,051</b> |

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| WEAPONS SYSTEM COST ANALYSIS  |                                   |         |                                    | Weapon System                         |                               |            |          | DATE:         |            |               |                 |            |                |                 |                 |
|-------------------------------|-----------------------------------|---------|------------------------------------|---------------------------------------|-------------------------------|------------|----------|---------------|------------|---------------|-----------------|------------|----------------|-----------------|-----------------|
| P-5                           |                                   |         |                                    |                                       |                               |            |          | February 2000 |            |               |                 |            |                |                 |                 |
| APPROPRIATION/BUDGET ACTIVITY |                                   |         |                                    | ID Code                               | P-1 ITEM NOMENCLATURE/SUBHEAD |            |          |               |            |               |                 |            |                |                 |                 |
| Other Procurement, Navy       |                                   |         |                                    | ITEMS UNDER \$5 MILLION (81LT) (0981) |                               |            |          |               |            |               |                 |            |                |                 |                 |
| COST CODE                     | ELEMENT OF COST                   | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |                                       |                               |            |          |               |            |               |                 |            |                |                 |                 |
|                               |                                   |         | Prior Years                        | FY 1999                               |                               |            | FY 2000  |               |            | FY 2001       |                 |            |                |                 |                 |
|                               |                                   |         | Total Cost                         | Quantity                              | Unit Cost                     | Total Cost | Quantity | Unit Cost     | Total Cost | Quantity      | Unit Cost       | Total Cost |                |                 |                 |
| LT140                         | SMART SHIP                        |         |                                    |                                       |                               |            |          |               |            |               |                 |            |                |                 |                 |
|                               | AMPHIBIOUS SHIP                   |         |                                    |                                       |                               |            |          |               |            |               | 24,429          | 2          | 11_            | 7,487           |                 |
|                               | CARRIERS                          |         |                                    |                                       |                               |            |          |               |            |               |                 |            |                |                 |                 |
|                               | <b>SUBTOTAL</b>                   |         |                                    |                                       |                               |            |          |               |            |               | <b>\$24,429</b> |            |                | <b>\$7,487</b>  |                 |
| LT150                         | ICAS                              |         |                                    |                                       |                               |            |          |               |            |               |                 |            |                |                 |                 |
|                               | AMPHIBIOUS/MINE SHIPS 12_         |         |                                    |                                       |                               |            |          |               |            | 5             | 921             | 4,605      | 4              | 363             | 1,451           |
|                               | SURFACE SHIPS                     |         |                                    |                                       |                               |            |          |               |            | 11            | 754             | 8,289      |                |                 |                 |
|                               | CARRIERS                          |         |                                    |                                       |                               |            |          |               |            | 2             | 3,090           | 6,180      | 2              | 2,772           | 5,544           |
|                               | UNREPLENISHMENT SHIPS             |         |                                    |                                       |                               |            |          |               |            | 3             | 1,440           | 4,320      | 3              | 1,425           | 4,274           |
|                               | <b>SUBTOTAL</b>                   |         |                                    |                                       |                               |            |          |               |            |               | <b>\$23,394</b> |            |                | <b>\$11,269</b> |                 |
|                               | <b>TOTAL EQUIPMENT</b>            |         |                                    |                                       |                               |            |          |               |            |               | <b>\$14,631</b> |            |                | <b>\$75,883</b> | <b>\$21,918</b> |
|                               | <b>SPONSOR TOTALS (EQUIPMENT)</b> |         |                                    |                                       |                               |            |          |               |            |               |                 |            |                |                 |                 |
|                               | N85                               |         |                                    |                                       |                               |            |          |               |            |               | <b>\$7,097</b>  |            |                | <b>\$37,778</b> | <b>\$8,938</b>  |
|                               | N86                               |         |                                    |                                       |                               |            |          |               |            |               | <b>\$5,482</b>  |            |                | <b>\$25,585</b> | <b>\$24</b>     |
|                               | N88                               |         |                                    |                                       |                               |            |          |               |            |               | <b>\$2,052</b>  |            |                | <b>\$8,200</b>  | <b>\$8,682</b>  |
|                               | N4                                |         |                                    |                                       |                               |            |          |               |            |               | <b>\$0</b>      |            |                | <b>\$4,320</b>  | <b>\$4,274</b>  |
| LT5IN                         | INSTALL OF EQUIPMENT-AMPHIB       |         |                                    |                                       |                               |            |          |               |            |               | 30,182          |            |                | 20,865          | 20,542          |
| LT6IN                         | INSTALL OF EQUIPMENT-SURFACE      |         |                                    |                                       |                               |            |          |               |            |               | 15,789          |            |                | 17,082          | 93              |
| LT8IN                         | INSTALL OF EQUIPMENT -CARRIERS    |         |                                    |                                       |                               |            |          |               |            |               | 10,855          |            |                | 13,873          | 16,298          |
|                               | <b>TOTAL INSTALLATION</b>         |         |                                    |                                       |                               |            |          |               |            |               | <b>\$56,826</b> |            |                | <b>\$51,820</b> | <b>\$36,933</b> |
|                               |                                   |         |                                    |                                       |                               |            |          |               |            | <b>71,457</b> |                 |            | <b>127,703</b> |                 | <b>58,851</b>   |

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P-1 SHOPPING LIST

ITEM NO.

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PAGE NO.

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CLASSIFICATION:

11\_ Unit cost is combination of LLTM procured in FY00 and equipment procured in FY01

12\_ MHC ships are not counted, dollars are included (ICAS upgrades accomplished based on ships' schedules

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| WEAPONS SYSTEM COST ANALYSIS  |                                      |          |           |                |          |                | Weapon System                         |          |              |            |          |                | DATE: February 2000 |             |      |          |      |  |  |
|-------------------------------|--------------------------------------|----------|-----------|----------------|----------|----------------|---------------------------------------|----------|--------------|------------|----------|----------------|---------------------|-------------|------|----------|------|--|--|
| P-5                           |                                      |          |           |                |          |                | P-1 ITEM NOMENCLATURE/SUBHEAD         |          |              |            |          |                |                     |             |      |          |      |  |  |
| APPROPRIATION/BUDGET ACTIVITY |                                      |          |           |                |          |                | ID Code                               |          |              |            |          |                |                     |             |      |          |      |  |  |
| Other Procurement, Navy       |                                      |          |           |                |          |                | ITEMS UNDER \$5 MILLION (81LT) (0981) |          |              |            |          |                |                     |             |      |          |      |  |  |
| COST CODE                     | ELEMENT OF COST                      |          |           |                |          |                |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               |                                      | FY 2002  |           |                | FY 2003  |                |                                       | FY 2004  |              |            | FY 2005  |                |                     | To Complete |      | Total    |      |  |  |
|                               |                                      | Quantity | Unit Cost | Total Cost     | Quantity | Unit Cost      | Total Cost                            | Quantity | Unit Cost    | Total Cost | Quantity | Unit Cost      | Total Cost          | Quantity    | Cost | Quantity | Cost |  |  |
|                               | <b>EXPEDITIONARY WARFARE N85</b>     |          |           |                |          |                |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
| LT010                         | MOD KITS LAND CRAFT CUSHION          |          |           | 588            |          | 3,722          |                                       |          |              |            |          |                | 2,977               |             |      |          |      |  |  |
| LT 020                        | SACC AUTOMATION                      |          |           | 346            |          | 346            |                                       |          | 873          |            |          | 873            |                     |             |      |          |      |  |  |
| LT030                         | FLUID SYSTEMS IMPROVEMENTS           | N/A      |           | 180            | N/A      | 378            |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | <b>SUBTOTAL N85</b>                  |          |           | <b>\$1,114</b> |          | <b>\$4,446</b> |                                       |          | <b>\$873</b> |            |          | <b>\$3,850</b> |                     |             |      |          |      |  |  |
|                               | <b>SURFACE N86</b>                   |          |           |                |          |                |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
| LT040                         | AEC                                  |          |           | 426            |          | 431            |                                       |          | 444          |            |          | 459            |                     |             |      |          |      |  |  |
| LT050                         | <b>COMMAND &amp; CONTROL UPGRADE</b> |          |           |                |          |                |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | GENERATORS (2000 kw)                 | 2        | 1183      | 2,366          | 2        | 1,168          | 2,336                                 |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | A/C PLANTS (250 TON)                 |          |           |                |          |                |                                       | 4        | 1,080        | 4,320      |          |                |                     |             |      |          |      |  |  |
|                               | A/C PLANTS (125 TON)                 |          |           |                |          |                |                                       | 2        | 410          | 820        |          |                |                     |             |      |          |      |  |  |
|                               | LPAC (LOW PRESS AIR COMP) (AGF-3)    |          |           |                |          |                |                                       | 4        | 235          | 940        |          |                |                     |             |      |          |      |  |  |
|                               | LPAC (LOW PRESS AIR COMP) (LCC)      | 3        | 223       | 670            |          |                |                                       | 3        | 223          | 670        |          |                |                     |             |      |          |      |  |  |
|                               | SOLID STATE FREQ CONV (SSFC)         |          |           |                |          |                |                                       | 4        | 100          | 400        |          |                |                     |             |      |          |      |  |  |
|                               | SLEWING ARM DAVIT (SLAD)             |          |           |                |          |                |                                       | 4        | 135          | 540        |          |                |                     |             |      |          |      |  |  |
| LT060                         | MACHALTS                             |          |           | 4,040          |          | 2,765          |                                       |          | 3,894        |            |          | 3,730          |                     |             |      |          |      |  |  |
| LT110                         | <b>PROPELLERS AND SHAFTS</b>         |          |           |                |          |                |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | BLADE SET PORT/STBD, DDG-51 CL       |          |           |                | 1        | 790            | 790                                   | 2        | 790          | 1,580      |          |                |                     |             |      |          |      |  |  |
|                               | HUB SET PORT/STBD, DDG-51-CL         | 1        | 930       | 930            |          |                |                                       | 1        | 930          | 930        | 1        | 930            | 930                 |             |      |          |      |  |  |
|                               | PROP/STERN SHAFT, DDG-51 CL          |          |           |                | 2        | 580            | 1,160                                 |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | OD BOXES, PORT/STBD, CG-47 CL        | 1        | 216       | 216            | 1        | 216            | 216                                   |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | OD BOXES, PORTSTBD DDG-51 CL         |          |           |                | 2        | 218            | 436                                   |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | HUG SET PORT/STBD, CDG-66-73         |          |           |                |          |                |                                       |          |              |            |          |                |                     |             |      |          |      |  |  |
|                               | OD BOXES, PORT/STBD, CG-66-73        |          |           |                |          |                |                                       | 1        | 220          | 220        |          |                |                     |             |      |          |      |  |  |

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| WEAPONS SYSTEM COST ANALYSIS  |                                       |          |           |                |          |           | Weapon System                         |          |           |                 |          |           | DATE: February 2000           |             |      |          |      |
|-------------------------------|---------------------------------------|----------|-----------|----------------|----------|-----------|---------------------------------------|----------|-----------|-----------------|----------|-----------|-------------------------------|-------------|------|----------|------|
| P-5                           |                                       |          |           |                |          |           | ID Code                               |          |           |                 |          |           | P-1 ITEM NOMENCLATURE/SUBHEAD |             |      |          |      |
| APPROPRIATION/BUDGET ACTIVITY |                                       |          |           |                |          |           | ITEMS UNDER \$5 MILLION (81LT) (0981) |          |           |                 |          |           |                               |             |      |          |      |
| Other Procurement, Navy       |                                       |          |           |                |          |           |                                       |          |           |                 |          |           |                               |             |      |          |      |
| COST CODE                     | ELEMENT OF COST                       |          |           |                |          |           |                                       |          |           |                 |          |           |                               |             |      |          |      |
|                               |                                       | FY 2002  |           |                | FY 2003  |           |                                       | FY 2004  |           |                 | FY 2005  |           |                               | To Complete |      | Total    |      |
|                               |                                       | Quantity | Unit Cost | Total Cost     | Quantity | Unit Cost | Total Cost                            | Quantity | Unit Cost | Total Cost      | Quantity | Unit Cost | Total Cost                    | Quantity    | Cost | Quantity | Cost |
| LT830                         | PRODUCTION ENGINEERING / HM&E         |          |           | 218            |          |           | 225                                   |          |           | 232             |          |           | 239                           |             |      |          |      |
|                               | PRODUCTIN ENGINEERING / PROP. SURF.   |          |           | 10             |          |           | 10                                    |          |           | 10              |          |           | 11                            |             |      |          |      |
|                               | PRODUCTION ENGINEERING/PROPS & SHAFTS |          |           | 34             |          |           | 15                                    |          |           | 28              |          |           | 107                           |             |      |          |      |
| LT120                         | PROPULSION PLANT INSPECTION           |          |           | 30             |          |           | 31                                    |          |           | 32              |          |           | 32                            |             |      |          |      |
| LT130                         | STEAM PROPULSION ITEMS                |          |           |                |          |           |                                       |          |           | 300             |          |           |                               |             |      |          |      |
| LT180                         | MACHINERY CONSOLES - ARS 50 CL        |          |           |                |          |           |                                       | 1        | 1,522     | 1,522           | 2        | 1,388     | 2,776                         |             |      |          |      |
| LT200                         | WATER TIGHT DOORS                     |          |           |                |          |           | 1,000                                 |          |           | 2,258           |          |           | 985                           |             |      |          |      |
|                               | <b>SUBTOTAL N86</b>                   |          |           | <b>\$8,940</b> |          |           | <b>\$9,415</b>                        |          |           | <b>\$19,140</b> |          |           | <b>\$9,269</b>                |             |      |          |      |
|                               | <b><u>SUBMARINES (N87)</u></b>        |          |           |                |          |           |                                       |          |           |                 |          |           |                               |             |      |          |      |
| LT170                         | AERP ASW PUMP                         |          |           | 1,338          |          |           |                                       |          |           |                 |          |           |                               |             |      |          |      |
|                               | <b>SUBTOTAL N87</b>                   |          |           | <b>\$1,338</b> |          |           | <b>\$0</b>                            |          |           | <b>\$0</b>      |          |           | <b>\$0</b>                    |             |      |          |      |
|                               | <b><u>AIRCRAFT CARRIERS (N88)</u></b> |          |           |                |          |           |                                       |          |           |                 |          |           |                               |             |      |          |      |
| LT080                         | 363 TON A/C PLANT                     | 1        | 983       | 983            | 1        | 1,003     | 1,003                                 |          |           |                 |          |           |                               |             |      |          |      |
| LT120                         | PROPULSION PLANT INSPECTION           |          |           | 148            |          |           | 150                                   |          |           | 153             |          |           | 155                           |             |      |          |      |
| LT160                         | MACHINERY PLANT UPGRADES              | 5        | 1,480     | 7,401          | 2        | 1,487     | 2,974                                 | 4        | 1,572     | 6,288           | 4        | 1,319     | 5,277                         |             |      |          |      |
| LT210                         | CVN69 (RCOH)                          |          |           |                | 1        | 182,996   | 182,996                               |          |           |                 |          |           |                               |             |      |          |      |
| LT830                         | PRODUCTION ENGINEERING / PROP. CV     |          |           | 22             |          |           | 26                                    |          |           | 28              |          |           | 30                            |             |      |          |      |
|                               | <b>SUBTOTAL N88</b>                   |          |           | <b>\$8,554</b> |          |           | <b>\$187,149</b>                      |          |           | <b>\$6,469</b>  |          |           | <b>\$5,462</b>                |             |      |          |      |

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| WEAPONS SYSTEM COST ANALYSIS  |                                 |              |            |                 |          |           | Weapon System                         |                |           |                 |          |                | DATE: <b>February 2000</b>    |          |       |                |          |          |
|-------------------------------|---------------------------------|--------------|------------|-----------------|----------|-----------|---------------------------------------|----------------|-----------|-----------------|----------|----------------|-------------------------------|----------|-------|----------------|----------|----------|
| P-5                           |                                 |              |            |                 |          |           | ID Code                               |                |           |                 |          |                | P-1 ITEM NOMENCLATURE/SUBHEAD |          |       |                |          |          |
| APPROPRIATION/BUDGET ACTIVITY |                                 |              |            |                 |          |           | ITEMS UNDER \$5 MILLION (81LT) (0981) |                |           |                 |          |                |                               |          |       |                |          |          |
| COST CODE                     | ELEMENT OF COST                 | FY 2002      |            | FY 2003         |          |           | FY 2004                               |                |           | FY 2005         |          |                | To Complete                   |          | Total |                |          |          |
|                               |                                 | Quantity     | Unit Cost  | Total Cost      | Quantity | Unit Cost | Total Cost                            | Quantity       | Unit Cost | Total Cost      | Quantity | Unit Cost      | Total Cost                    | Quantity | Cost  | Quantity       | Cost     |          |
|                               |                                 | <b>LT140</b> | SMART SHIP |                 |          |           |                                       |                |           |                 |          |                |                               |          |       |                |          |          |
|                               | AMPHIBIOUS SHIPS                | 3            |            | 16,890          | 2        |           | 16,816                                |                |           |                 |          |                |                               |          |       |                |          |          |
|                               | CARRIERS                        | 1            |            | 38,605          | 2        |           | 58,084                                | 2              |           | 57,691          | 2        |                | 57,597                        |          |       |                |          |          |
|                               | <b>SUBTOTAL</b>                 |              |            | <b>\$55,495</b> |          |           | <b>\$74,900</b>                       |                |           | <b>\$57,691</b> |          |                | <b>\$57,597</b>               |          |       |                |          |          |
|                               | <b>TOTAL EQUIPMENT</b>          |              |            | <b>\$75,441</b> |          |           | <b>\$275,910</b>                      |                |           | <b>\$84,173</b> |          |                | <b>\$76,178</b>               |          |       |                |          |          |
| <b>LT5IN</b>                  | INSTALL OF EQUIPMENT - AMPHIB   |              |            | 2,328           |          |           | 2,692                                 |                |           | 2,380           |          |                | 2,475                         |          |       |                |          |          |
| <b>LT6IN</b>                  | INSTALL OF EQUIPMENT - SURFACE  |              |            | 887             |          |           | 14,521                                |                |           | 12,691          |          |                | 21,456                        |          |       |                |          |          |
| <b>LT8IN</b>                  | INSTALL OF EQUIPMENT - CARRIERS |              |            | 22,497          |          |           | 29,931                                |                |           | 15,452          |          |                | 20,043                        |          |       |                |          |          |
|                               | <b>TOTAL INSTALLATION</b>       |              |            | <b>\$25,712</b> |          |           | <b>\$47,144</b>                       |                |           | <b>\$30,523</b> |          |                | <b>\$43,974</b>               |          |       | <b>0</b>       |          |          |
|                               |                                 |              |            | <b>101,153</b>  |          |           |                                       | <b>323,054</b> |           |                 |          | <b>114,696</b> |                               |          |       | <b>120,152</b> | <b>0</b> | <b>0</b> |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)             |          |                       |                    |                   | Weapon System                                              |                              |               | A. DATE<br><b>February 2000</b> |                           |                                |  |
|--------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------------------------------|------------------------------|---------------|---------------------------------|---------------------------|--------------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>ITEMS UNDER \$5 MILLION</b> |                              |               |                                 |                           | SUBHEAD                        |  |
| Cost Element/<br>FISCAL YEAR                                       | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                               | CONTRACTOR<br>AND LOCATION   | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |  |
| <b><u>FY 99</u></b>                                                |          |                       |                    |                   |                                                            |                              |               |                                 |                           |                                |  |
| <b>LT010</b><br>LAND CRAFT CUSHION                                 | N/A      | 1,493                 | NAVSEA             |                   | WR                                                         | NSY PUGET SOUND              | Feb-99        | Feb-00                          | N/A                       |                                |  |
| <b>LT030</b><br>UPGRADE CHT SYSTEM                                 | 1        | 507                   | NAVSEA             |                   | WR                                                         | NSY PUGET/NORFLK             | Feb-99        | Aug-99                          | YES                       |                                |  |
| STAR ROTARY                                                        | 4        | 223                   | NAVSEA             |                   | OPT                                                        | RIX INDUSTRIES               | May-99        | Apr-00                          | YES                       |                                |  |
| 300 TON AC PLANTS                                                  | 2        | 1,068                 | NAVSEA             |                   | OPT                                                        | YORK, YORK PA                | Jan-99        | May-00                          | YES                       |                                |  |
| REVERSE OSMOSIS                                                    | 4        | 392                   | NAVSEA             |                   | OPT                                                        | VILLAGE MARINE               | Apr-99        | Feb-00                          | YES                       |                                |  |
| FLUID SYSTEMS                                                      |          | 315                   | NWSWC,C PHILA      |                   | WR                                                         | NWSWC,C PHILA, PA            | Nov-98        | Sep-99                          |                           |                                |  |
| BOILER DESUPERHEATER                                               | 2        | 94                    | NWSWC,C PHILA      |                   | RCP/OPT                                                    | ABB COMBUSTION<br>WINDSOR CT | Mar-99        | Mar-00                          | YES                       |                                |  |
| <b>LT040</b><br>AEC                                                | N/A      | 389                   | NAVSEA             |                   | WR                                                         | NWSWC,C PHILA, PA            | Mar-99        | Mar-00                          | N/A                       |                                |  |
| <b>LT060</b><br>MACHALTS                                           | N/A      | 3,942                 | NAVSEA             |                   | WR/RCP                                                     | NWSWC,C PHILA, PA            | Feb-99        | Feb-00                          | N/A                       |                                |  |
| <b>LT110</b><br>HUB SET                                            | 1        | 900                   | NAVICP MECH        |                   | FFP                                                        | BIRD JOHNSON<br>WALPOLE, MA  | Sep-99        | Sep-00                          | YES                       |                                |  |
| <b>LT080</b><br>363 TON A/C PLANTS                                 | 2        | 891                   | NAVSEA             |                   | OPT                                                        | YORK, YORK PA                | Feb-99        | May-00                          | YES                       |                                |  |
| D. REMARKS                                                         |          |                       |                    |                   |                                                            |                              |               |                                 |                           |                                |  |

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| B. APPROPRIATION/BUDGET ACTIVITY |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE     |                              |               | A. DATE                      |                           |                                |
|----------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|------------------------------|---------------|------------------------------|---------------------------|--------------------------------|
| Other Procurement, Navy          |          |                       |                    |                   | ITEMS UNDER \$5 MILLION      |                              |               | February 2000                |                           |                                |
| Cost Element/<br>FISCAL YEAR     | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION   | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>FY 00</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| <b>LT010</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| LAND CRAFT CUSHION               | N/A      | 1,082                 | NAVSEA             |                   | WR                           | NSY PUGET SOUND              | Feb-00        | Feb-01                       | N/A                       |                                |
| <b>LT030</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| REVERSE OSMOSIS                  | 12       | 392                   | NAVSEA             |                   | OPT                          | VILLAGE MARINE               | Dec-99        | Oct-00                       | N/A                       |                                |
| STAR ROTARY                      | 4        | 234                   | NAVSEA             |                   | OPT                          | RIX INDUSTRIES               | Feb-00        | May-01                       | YES                       |                                |
| 300 TON AC PLANTS                | 1        | 953                   | NAVSEA             |                   | CFP                          | YORK INT, YORK PA            | Dec-99        | Mar-01                       | YES                       |                                |
| UPGRADE CHT SYSTEM               | 1        | 507                   | NAVSEA             |                   | WR                           | NSY PUGET/NORFOLK            | Apr-00        | Oct-00                       |                           |                                |
| BOILER DESUPERHEATER             | 6        | 94                    | NWSC,C PHILA       |                   | RCP/OPT                      | ABB COMBUSTION<br>WINDSOR CT | Feb-00        | Feb-01                       | YES                       |                                |
| <b>LT040</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| AEC                              | N/A      | 741                   | NAVSEA             |                   | WR/RCP                       | NSWC,C PHILA, PA             | Mar-00        | Mar-01                       | N/A                       |                                |
| <b>LT050</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| GENERATORS (1200kw)              | 2        | 787                   | NAVSEA             |                   | RFP                          | NATIONAL ELECT SYS           | Dec-99        | May-00                       | YES                       |                                |
| A/C PLANTS (125 TON)             | 1        | 140                   | NAVICP             |                   | PO                           | NAVICP (SF UNIT)             | Nov-99        | May-00                       | YES                       |                                |
| <b>LT060</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| MACHALTS                         | N/A      | 6,552                 | NAVSEA             |                   | WR                           | NSWC,C PHILA, PA             | Jan-00        | Jan-01                       | N/A                       |                                |
| <b>LT080</b>                     |          |                       |                    |                   |                              |                              |               |                              |                           |                                |
| 363 TON A/C PLANTS               | 2        | 887                   | NAVSEA             |                   | OPT                          | YORK INT, YORK PA            | Feb-00        | May-01                       | YES                       |                                |
| D. REMARKS                       |          |                       |                    |                   |                              |                              |               |                              |                           |                                |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                                                                                                                   |          |                       |                    |                   | Weapon System                |                            |               | A. DATE                      |                           |                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b>                                                                                                                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE     |                            |               |                              |                           | SUBHEAD                        |  |
|                                                                                                                                                                                          |          |                       |                    |                   | ITEMS UNDER \$5 MILLION      |                            |               |                              |                           |                                |  |
| Cost Element/<br>FISCAL YEAR                                                                                                                                                             | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |  |
| <b>FY 00 (cont'd)</b>                                                                                                                                                                    |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| <b>LT110</b>                                                                                                                                                                             |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| (HUB SETS PORT/STBD)                                                                                                                                                                     |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| DDG-51 CL                                                                                                                                                                                | 1        | 900                   | NAVICP MECH        |                   | RCP/FP                       | TBD                        | Feb-00        | Feb-02                       | YES                       |                                |  |
| CG 66-73 CL                                                                                                                                                                              | 1        | 895                   | NAVICP MECH        |                   | RCP/FP                       | TBD                        | May-00        | May-02                       | YES                       |                                |  |
| (OD BOXES)                                                                                                                                                                               |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| CG-47 CL                                                                                                                                                                                 | 1        | 216                   | NAVICP MECH        |                   | RCP/FP                       | TBD                        | May-00        | May-02                       | YES                       |                                |  |
| DDG-51 CL                                                                                                                                                                                | 2        | 218                   | NAVICP MECH        |                   | RCP/FP                       | TBD                        | May-00        | May-02                       | YES                       |                                |  |
| CG 66-73 CL                                                                                                                                                                              | 1        | 200                   | NAVICP MECH        |                   | RCP/FP                       | TBD                        | May-00        | May-02                       | YES                       |                                |  |
| <b>LT130</b>                                                                                                                                                                             |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| STEAM PROPULSION                                                                                                                                                                         | 10       | 77                    | NWSC,C PHILA       |                   | WR/RCP                       | NWSC,C PHIL, PA            | VAR           | VAR                          | YES                       |                                |  |
| <b>LT140</b>                                                                                                                                                                             |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| SMART SHIP LSD41/49                                                                                                                                                                      |          | 24,429                | NAVSEA             |                   | VARIOUS                      | VARIOUS                    | Apr-00        | Nov-00                       | \1_                       |                                |  |
| <b>LT150 ICAS</b>                                                                                                                                                                        |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| AMPHIB SHIPS                                                                                                                                                                             | 5        | 921                   | NWSC,C PHILA       |                   | RCP                          | TBD                        | Apr-00        | Jun-00                       | \2_                       |                                |  |
| SURFACE SHIPS                                                                                                                                                                            | 11       | 754                   | NWSC,C PHILA       |                   | RCP                          | TBD                        | Apr-00        | Jun-00                       | \2_                       |                                |  |
| CARRIERS                                                                                                                                                                                 | 2        | 3,090                 | NWSC,C PHILA       |                   | RCP                          | TBD                        | Apr-00        | Jun-00                       | \2_                       |                                |  |
| UNREP SHIPS                                                                                                                                                                              | 3        | 1,440                 | NWSC,C PHILA       |                   | CPFF                         | VARIOUS                    | Feb-00        | Mar-00                       | \2_                       |                                |  |
| <b>LT 180</b>                                                                                                                                                                            |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| MACHINERY CONSOLE                                                                                                                                                                        | 1        | 1,500                 | NWSC,C PHILA       |                   | WR/C                         | VARIOUS                    | Jan-00        | Feb-00                       | \3_                       |                                |  |
| <b>LT200</b>                                                                                                                                                                             |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| WATER TIGHT DOORS                                                                                                                                                                        |          | 3,000                 | NWSC,C PHILA       |                   | RCP                          | NWSC,C PHIL, PA            | Apr-00        | Jul-00                       | YES                       |                                |  |
| D. REMARKS                                                                                                                                                                               |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| \1_ Delivery at Land Based Test Site.                                                                                                                                                    |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| \2_ Effort is both material procurement and labor (short-lead time items have a one-to-two month turnaround). Work is proceeding on some ships anticipating the arrival of this material |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |
| \3_ Items being bought are COTS, most with very short lead-times.                                                                                                                        |          |                       |                    |                   |                              |                            |               |                              |                           |                                |  |

CLASSIFICATION:

**UNCLASSIFIED**

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                                                                                                   |          |                       |                    |                   | Weapon System                                              |                            | A. DATE<br><b>February 2000</b> |                              |                           |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------------------------------|----------------------------|---------------------------------|------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b>                                                                                                       |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>ITEMS UNDER \$5 MILLION</b> |                            |                                 |                              | SUBHEAD                   |                                |
| Cost Element/<br>FISCAL YEAR                                                                                                                                             | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                               | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE                   | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b><u>FY 01</u></b>                                                                                                                                                      |          |                       |                    |                   |                                                            |                            |                                 |                              |                           |                                |
| <b>LT080</b><br>363 TON A/C PLANTS                                                                                                                                       | 3        | 962                   | NAVSEA             | TBD               | TBD                                                        | TBD                        | Mar-01                          | Jun-02                       |                           |                                |
| <b>LT140</b> SMART SHIP \2_<br>LSD41/49                                                                                                                                  | 2        | 7,487                 | NAVSEA             |                   | VARIOUS                                                    | VARIOUS                    | Dec-00                          | Mar-01                       |                           |                                |
| <b>LT150</b> ICAS                                                                                                                                                        |          |                       |                    |                   |                                                            |                            |                                 |                              |                           |                                |
| AMPHIB SHIPS                                                                                                                                                             | 4        | 363                   | NSWC,C PHILA       |                   | CPFF                                                       | VARIOUS                    | Nov-00                          | Dec-00                       | \1_                       |                                |
| CARRIERS                                                                                                                                                                 | 2        | 2,772                 | NSWC,C PHILA       |                   | CPFF                                                       | VARIOUS                    | Nov-00                          | Dec-00                       | \1_                       |                                |
| UNREP SHIPS                                                                                                                                                              | 3        | 1,425                 | NSWC,C PHILA       |                   | CPFF                                                       | VARIOUS                    | Nov-00                          | Dec-00                       | \1_                       |                                |
| D. REMARKS                                                                                                                                                               |          |                       |                    |                   |                                                            |                            |                                 |                              |                           |                                |
| \1_ Effort is both material procurement and labor (short-lead time items have one (1) month turnaround).<br>\2_ For SMART SHIP, quantities represent ship installations. |          |                       |                    |                   |                                                            |                            |                                 |                              |                           |                                |

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: STAR ROTARY (LHA MIDLIFE UPGRADE) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT030) #831

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |     |     |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|-----|-----|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$  |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     |     |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0   | 0.0 |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     |     |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0   | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     |     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| EQUIPMENT                           | 4               | 1.2 | 4       | 0.9 | 4       | 0.9 | 4       | 0.9 |         |     |         |     |         |     |         |     |         |     |     |    |       | 16  | 3.9 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| INSTALL COST                        |                 |     |         |     | 8       | 2.2 | 4       | 1.4 | 4       | 1.1 |         |     |         |     |         |     |         |     |     |    |       | 16  | 4.7 |
| TOTAL PROCUREMENT                   |                 | 1.2 |         | 0.9 |         | 3.1 |         | 2.3 |         | 1.1 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       | 8.6 |     |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: BALLAST/DEBALLAST TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LHA MIDLIFE UPGRADE)(LT030) AIT

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |     |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|-----|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| EQUIPMENT                           | 8               | 1.6 | 2       | 0.4 |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 10 | 2.0 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| INSTALL COST                        | 8               | 1.6 | AP      | 0.2 |         |     | 2       | 2.0 |         |     |         |     |         |     |         |     |         |     |     |    |       | 10 | 3.8 |
| TOTAL PROCUREMENT                   |                 | 3.2 |         | 0.6 |         | 0.0 |         | 2.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       |    | 5.8 |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 300 TON A/C (LHA MIDLIFE UPGRADE) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT030) #418

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           | 1               | 1.3 | 1       | 0.9 | 2       | 2.1 | 1       | 1.0 |         |     |         |     |         |     |         |     |         |     |     |    |       | 5  | 5.3  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        | AP              | 1.2 | 1       | 5.2 | 1       | 6.8 | 1       | 6.4 | 2       | 9.3 |         |     |         |     |         |     |         |     |     |    |       | 5  | 28.9 |
| TOTAL PROCUREMENT                   |                 | 2.5 |         | 6.1 |         | 8.9 |         | 7.4 |         | 9.3 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       |    | 34.2 |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 363 TON AIR CONDITIONER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT080) VARIOUS S/A

DESCRIPTION/JUSTIFICATION:  
 The air conditioning plants provide cooling to the chilled water system which is a vital system supporting and the ships critical offensive, and defensive electronic systems. Lack of a continuous supply of chilled water to these vital systems has a serious effect on mission capability. The chilled water demand on aircraft carriers has grown as a result of installation of numerous electronic systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |      | FY 1998 |      | FY 1999 |      | FY 2000 |      | FY 2001 |      | FY 2002 |      | FY 2003 |      | FY 2004 |     | FY 2005 |      | TC  |    | TOTAL |    |       |
|-------------------------------------|-----------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|---------|------|-----|----|-------|----|-------|
|                                     | QTY             | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$   | QTY     | \$  | QTY     | \$   | QTY | \$ | QTY   | \$ |       |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    |       |
| <u>RDT&amp;E</u>                    |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       | 0  | 0.0   |
| <u>PROCUREMENT</u>                  |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    |       |
| INSTALLATION KITS                   |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       | 0  | 0.0   |
| INSTALLATION KITS - UNIT COST       |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    |       |
| INSTALLATION KITS NONRECURRING      |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| EQUIPMENT                           | 13              | 12.1 | 1       | 0.9  | 2       | 1.8  | 2       | 1.8  | 3       | 2.9  | 1       | 1.0  | 1       | 1.0  |         |     |         |      |     |    |       | 23 | 21.5  |
| EQUIPMENT NONRECURRING              |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| ENGINEERING CHANGE ORDERS           |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| DATA                                |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| TRAINING EQUIPMENT                  |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| SUPPORT EQUIPMENT                   |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| OTHER                               |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| OTHER                               |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| OTHER                               |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| INTERIM CONTRACTOR SUPPORT          |                 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |     |         |      |     |    |       |    | 0.0   |
| INSTALL COST                        | 9               | 47.4 | 2       | 14.7 | 2       | 10.8 | 2       | 13.9 | 2       | 15.4 | 1       | 15.1 | 3       | 23.9 | 1       | 8.2 | 1       | 12.4 |     |    |       | 23 | 161.8 |
| TOTAL PROCUREMENT                   |                 | 59.5 |         | 15.6 |         | 12.6 |         | 15.7 |         | 18.3 |         | 16.1 |         | 24.9 |         | 8.2 |         | 12.4 |     |    |       |    | 183.3 |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: REV OSMOSIS (LHA MIDLIFE UPGRADE) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 LT030 #834

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |     | 4       | 1.6 | 4       | 1.6 | 12      | 4.7 |         |     |         |    |         |     |         |     |         |     |     |    |       | 20 | 7.9  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |    |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     | 4       | 1.2 | 4       | 2.1 | 12      | 3.2 |         |    |         |     |         |     |         |     |     |    |       | 20 | 6.5  |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 1.6 |         | 2.8 |         | 6.8 |         | 3.2 |         | 0  |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       |    | 14.4 |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: REV OSMOSIS (LHA MIDLIFE UPGRADE)  
(LT030) #834

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 1999: 4/1/1999 FY 2000: 12/1/1999 FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: 2/1/2000 FY 2000: 10/1/2000 FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    | 4       | 1.1 |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 4     | 1.1 |
| FY 1999 EQUIPMENT |             |    |         |    | AP      | 0.1 | 4       | 1.0 |         |     |         |    |         |    |         |    |         |    |             |    | 4     | 1.1 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     | AP      | 1.1 | 12      | 3.2 |         |    |         |    |         |    |         |    |             |    | 12    | 4.3 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |     |         |    |         |    |         |    |         |    |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 4 | 0       | 4 | 0 | 0 | 0       | 8 | 4 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 20    |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 4 | 0 | 4 | 0       | 4 | 4 | 0 | 4       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 20    |

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CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CHT UPGRADE (LHA MIDLIFE UPGRADE) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT030) #942

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |      | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$   | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |     | 2       | 1.0 | 1       | 0.5  | 1       | 0.5 |         |     |         |     |         |     |         |     |         |     |     |    |       | 4  | 2.0  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     | 2       | 12.4 | 1       | 5.9 | 1       | 4.5 |         |     |         |     |         |     |         |     |     |    |       | 4  | 22.8 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 1.0 |         | 12.9 |         | 6.4 |         | 4.5 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       |    | 24.8 |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CHT UPGRADE (LHA UPGRADE)  
(LT030) #942

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 5 Months

PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 1999: 2/1/1999 FY 2000: 4/1/2000

FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: 8/1/1999 FY 2000: 10/1/2000

FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |      | FY 2000 |     | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |      |
|-------------------|-------------|----|---------|----|---------|------|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|------|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$   |
| PRIOR YEARS       |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0  |
| FY 1998 EQUIPMENT |             |    |         |    | 2       | 12.4 |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 2     | 12.4 |
| FY 1999 EQUIPMENT |             |    |         |    |         |      | 1       | 4.9 |         |    |         |    |         |    |         |    |         |    |             |    | 1     | 4.9  |
| FY 2000 EQUIPMENT |             |    |         |    |         |      |         | AP  | 1.0     | 1  | 4.5     |    |         |    |         |    |         |    |             |    | 1     | 5.5  |
| FY 2001 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0  |
| FY 2002 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0  |
| FY 2003 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0  |
| FY 2004 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0  |
| FY 2005 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0  |
| TO COMPLETE       |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |      |

INSTALLATION SCHEDULE:

|     | FY 1998 |   |   |   | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |   |
|-----|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|---|
|     | & Prior | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       | 1 | 2 | 3 | 4       |   |   |   |    |       |   |
| In  | 0       | 1 | 0 | 0 | 1       | 0 | 1 | 0 | 0       | 0 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 0     | 4 |
| Out | 0       | 0 | 0 | 1 | 0       | 0 | 1 | 0 | 1       | 0 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 0     | 4 |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: COMMAND/CONTROL UPG (250 TON A/C) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
LT050 #1179/1180

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |      | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$   | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           | 4               | 3.5 |         |      |         |     |         |     |         |     |         |     |         | 4   | 4.3     |     |         |     |     |    |       | 8  | 7.8  |
| EQUIPMENT NONRECURRING              |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |      |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     | 4       | 11.6 |         |     |         |     |         |     |         |     | A/P     | 0.4 | A/P     | 1.2 | 4       | 9.5 |     |    |       | 8  | 22.7 |
| TOTAL PROCUREMENT                   |                 | 3.5 |         | 11.6 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.4 |         | 5.5 |         | 9.5 |     |    |       |    | 30.5 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: COMMAND/CONTROL UPG (250 TON A/C) MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT050) #1179/1180

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |      | FY 1999 |    | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |      |      |
|-------------------|-------------|----|---------|------|---------|----|---------|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|-------------|----|-------|------|------|
|                   | Qty         | \$ | Qty     | \$   | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$   |      |
| PRIOR YEARS       |             |    | 4       | 11.6 |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    | 4     | 11.6 |      |
| FY 1998 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| FY 1999 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| FY 2000 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| FY 2001 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| FY 2002 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| FY 2003 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| FY 2004 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    | AP      | 0.4 | AP      | 1.2 | 4       | 9.5 |             |    |       | 4    | 11.1 |
| FY 2005 EQUIPMENT |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0    | 0.0  |
| TO COMPLETE       |             |    |         |      |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       |      |      |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 4       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 4       | 0 | 0 | 0 | 0  | 8     |
| Out | 4       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 4 | 0 | 0 | 0  | 8     |

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CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LPAC TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
LCC/AGF CL #1325 AND AIT

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | TC  |    | TOTAL |    |     |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|-----|----|-------|----|-----|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY     | \$ | QTY | \$ | QTY   | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    |     |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0 |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    |     |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       | 0  | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    |     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| EQUIPMENT                           |                 |     |         |     |         |     |         |     |         | 3   | 0.7     |    |         | 7  | 1.6     |    |         |    |     |    |       | 10 | 2.3 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |    |         |    |         |    |         |    |     |    |       |    | 0.0 |
| INSTALL COST                        |                 |     |         |     |         |     |         |     |         | AP  | 0.1     | 3  | 0.9     | AP | 0.3     | 7  | 2.3     |    |     |    |       | 10 | 3.6 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 | 0.8     |    | 0.9     |    | 1.9     |    | 2.3     |    |     |    |       |    | 5.9 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: LPAC MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT050) #1325 and AIT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD AND AIT  
 ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |    | FY 2002 |    | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |     |     |
|-------------------|-------------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|-------------|----|-------|-----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$  |     |
| PRIOR YEARS       |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    | 0     | 0.0 |     |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |    |         | AP | 0.1     | 3  | 0.8     |     |         |     |         |     |             |    |       | 3   | 0.9 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    | AP      | 0.1 | AP      | 0.3 | 7       | 2.3 |             |    |       | 7   | 2.7 |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       | 0   | 0.0 |
| TO COMPLETE       |             |    |         |    |         |    |         |    |         |    |         |    |         |     |         |     |         |     |             |    |       |     |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |    |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|----|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2  | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 3 | 0 | 0       | 0 | 0 | 0 | 4       | 3  | 0 | 0 | 0  | 10    |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 3 | 0       | 0 | 0 | 0 | 0       | 0 | 7 | 0 | 0       | 10 |   |   |    |       |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: PIONEER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 s/a 01118/01119

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |     |     |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|-----|-----|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$  |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     |     |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0   | 0.0 |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     |     |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0   | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     |     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| EQUIPMENT                           | 3               | 2.1 |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 3   | 2.1 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |     | 0.0 |
| INSTALL COST                        | 1               | 1.2 | 2       | 3.0 |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 3   | 4.2 |
| TOTAL PROCUREMENT                   |                 | 3.3 |         | 3.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       | 6.3 |     |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: ICAN CVN CLASS (AIT) TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
MACHINERY PLANT UPGRADE(LT160)

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |      | FY 2003 |     | FY 2004 |      | FY 2005 |      | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|------|---------|-----|---------|------|---------|------|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$   | QTY     | \$  | QTY     | \$   | QTY     | \$   | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         | 5   | 7.4     | 2    | 3.0     | 4   | 6.3     | 4    | 5.3     |      |     |    |       | 15 | 22.0 |
| EQUIPMENT                           |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       | 0  | 0.0  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |      |         |     |         |      |         |      |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     |         |     |         |     | A/P     | 0.9 | 2       | 7.4  | 4       | 6.0 | 4       | 7.3  | 5       | 7.6  |     |    |       | 15 | 29.2 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.9 |         | 14.8 |         | 9.0 |         | 13.6 |         | 12.9 |     |    |       |    | 51.2 |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: ICAN CVN CL (AIT) MACHINERY PLANT UPGRADE MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: AIT  
 ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months  
 CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | To Complete |    | Total |    |     |      |
|-------------------|-------------|----|---------|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-------------|----|-------|----|-----|------|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$ |     |      |
| PRIOR YEARS       |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |             |    |       | 0  | 0.0 |      |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |             |    |       |    | 0   | 0.0  |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |             |    |       |    | 0   | 0.0  |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |             |    |       |    | 0   | 0.0  |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |             |    |       |    | 0   | 0.0  |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |    | AP      | 0.9 | 2       | 4.2 |         |     |         |     |         |     |             |    |       |    | 2   | 5.1  |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |    |         |     | AP      | 3.2 | 4       | 4.8 |         |     |         |     |             |    |       |    | 4   | 8.0  |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     | AP      | 1.2 | 4       | 4.9 |         |     |             |    |       |    | 4   | 6.1  |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |     | AP      | 2.4 | 5       | 7.6 |             |    |       |    | 5   | 10.0 |
| TO COMPLETE       |             |    |         |    |         |    |         |    |         |     |         |     |         |     |         |     |         |     |             |    |       |    |     |      |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 1 | 1 | 0 | 2       | 0 | 1 | 1 | 1       | 2 | 0 | 1 | 1       | 2 | 1 | 1 | 0  | 15    |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 1 | 1       | 0 | 0 | 1 | 2       | 0 | 1 | 3 | 0       | 0 | 1 | 2 | 3  | 15    |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 2000 GPM FIRE PUMP TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
LHA MIDLIFE UPGRADE #709

DESCRIPTION/JUSTIFICATION:  
 One ship set equals two units  
 The ship set procured in FY1997 was provided to the Fleet as a repair/replacement unit.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |     |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|-----|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| EQUIPMENT (see explanation)         | 1               | 0.2 | 1       | 0.2 |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 2  | 0.4 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| INSTALL COST                        |                 |     |         |     |         |     | 1       | 0.2 |         |     |         |     |         |     |         |     |         |     |     |    |       | 1  | 0.2 |
| TOTAL PROCUREMENT                   |                 | 0.2 |         | 0.2 |         | 0.0 |         | 0.2 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       |    | 0.6 |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: 2000 GPM FIRE PUMP MODIFICATION TITLE: ITEMS UNDER 5M  
LHA MIDLIFE UPGRADE #709

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD  
 ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 12 Months  
 CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |     | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |     |
|-------------------|-------------|----|---------|----|---------|----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |     |
| PRIOR YEARS       |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 1998 EQUIPMENT |             |    |         |    |         |    | 1       | 0.2 |         |    |         |    |         |    |         |    |         |    |             |    |       | 1  | 0.2 |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |
| TO COMPLETE       |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | IC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 1     |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 1 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 1     |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SOLID STATE FREQUENCY CHANGERS TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
LHA AND C&C SHIP: (LT050) s/a #00856/01332

DESCRIPTION/JUSTIFICATION:  
 Solid frequency Changers priority #20C.  
 One ship set equals 3 units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |     |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|-----|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |     |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |     |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0 |
| EQUIPMENT                           | 4               | 0.4 |         |     |         |     |         |     |         |     |         |     |         | 4   | 0.4     |     |         |     |     |    |       | 8  | 0.8 |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0 |
| INSTALL COST                        |                 |     |         |     | 3       | 1.0 | 1       | 0.4 |         |     |         |     |         |     | AP      | 0.2 | 4       | 1.8 |     |    |       | 8  | 3.4 |
| TOTAL PROCUREMENT                   |                 | 0.4 |         | 0.0 |         | 1.0 |         | 0.4 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.6 |         | 1.8 |     |    |       |    | 4.2 |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SOLID STATE FREQUENCY CHANGERS MODIFICATION TITLE: ITEMS UNDER 5M  
LHA and C&C SHIPS (LT030) s/a #00856/01332

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPYARD/AIT

ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 12 Months  
 CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |     | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |     |
|-------------------|-------------|----|---------|----|---------|-----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$  |
| PRIOR YEARS       |             |    |         |    | 3       | 1.0 | 1       | 0.4 |         |    |         |    |         |    |         |    |         |    |             |    | 4     | 1.4 |
| FY 1998 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         | AP | 0.2     | 4  | 1.8     |    |             |    | 4     | 2.0 |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    | 0     | 0.0 |
| TO COMPLETE       |             |    |         |    |         |     |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 1       | 1 | 0 | 1 | 0       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 2       | 2 | 0 | 0 | 0       | 0 | 0 | 0 | 8  |       |
| Out | 0       | 0       | 0 | 1 | 1 | 0       | 1 | 0 | 1 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 2 | 2 | 2 | 0       | 0 | 0 | 8 |    |       |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 1200KW GENERATORS AIT TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
C&C SHIPS (LT050) #5071/5072

DESCRIPTION/JUSTIFICATION:  
 Relieves shortage of available power.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |      | FY 2000 |      | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |      |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|------|---------|------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|------|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$   | QTY     | \$   | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$   |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       | 0    | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      |      |
| INSTALLATION KITS                   |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       | 0    | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| EQUIPMENT                           |                 |     | 2       | 1.7 |         |      | 2       | 1.6  |         |     |         |     |         |     |         |     |         |     |     |    |       | 4    | 3.3  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| DATA                                |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| OTHER                               |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| OTHER                               |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| OTHER                               |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |      |         |      |         |     |         |     |         |     |         |     |         |     |     |    |       |      | 0.0  |
| INSTALL COST                        |                 |     |         |     | 2       | 15.2 | 2       | 8.4  |         |     |         |     |         |     |         |     |         |     |     |    |       | 4    | 23.6 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 1.7 |         | 15.2 |         | 10.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       | 26.9 |      |

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: 1200KW GENERATORS AIT MODIFICATION TITLE: ITEMS UNDER 5M  
C&C SHIPS #5071/5072

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT  
 ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 5 Months  
 CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: 12/1/1999 FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: 5/1/2000 FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |      | FY 2000 |     | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |      |
|-------------------|-------------|----|---------|----|---------|------|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|------|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |      |
| PRIOR YEARS       |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| FY 1998 EQUIPMENT |             |    |         |    | 2       | 15.2 |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 2  | 15.2 |
| FY 1999 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| FY 2000 EQUIPMENT |             |    |         |    |         |      | 2       | 8.4 |         |    |         |    |         |    |         |    |         |    |             |    |       | 2  | 8.4  |
| FY 2001 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| FY 2002 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| FY 2003 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| FY 2004 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| FY 2005 EQUIPMENT |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0  |
| TO COMPLETE       |             |    |         |    |         |      |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    |      |

INSTALLATION SCHEDULE:

|     | FY 1998<br>& Prior | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     |                    | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0                  | 2       | 0 | 0 | 0 | 0       | 0 | 2 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 4     |
| Out | 0                  | 0       | 0 | 0 | 2 | 0       | 0 | 0 | 2 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 4     |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LHA MID LIFE DESUPERHEATER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 LT030 #660

DESCRIPTION/JUSTIFICATION:  
 The capability to quickly plug a lacking tube is vital for meeting commitments. A new desuperheater has been designed that permits access. Installation of this ShipAlt will also help resolve water drum blind Flange leakage which has occurred on various LHA.  
 I/O

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |     | 2       | 0.4 | 2       | 0.2 | 6       | 0.6 |         |     |         |     |         |     |         |     |         |     |     |    |       | 10 | 1.2  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     | 2       | 0.1 | 2       | 0.1 | 6       | 0.1 |         |     |         |     |         |     |         |     |     |    |       | 10 | 0.30 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.4 |         | 0.3 |         | 0.7 |         | 0.1 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |     |    |       |    | 1.50 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: LHA MID DESUPERHEATER MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT030) #660

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPYD

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 1999: 3/1/1999 FY 2000: 2/1/2000 FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: 3/1/2000 FY 2000: 2/1/2001 FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |     | FY 2000 |       | FY 2001 |     | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |       |
|-------------------|-------------|----|---------|----|---------|-----|---------|-------|---------|-----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|-------|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$    | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |       |
| PRIOR YEARS       |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0   |
| FY 1998 EQUIPMENT |             |    |         |    | 2       | 0.1 |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 2  | 0.100 |
| FY 1999 EQUIPMENT |             |    |         |    |         |     | 2       | 0.029 |         |     |         |    |         |    |         |    |         |    |             |    |       | 2  | 0.029 |
| FY 2000 EQUIPMENT |             |    |         |    |         |     | AP      | 0.037 | 6       | 0.1 |         |    |         |    |         |    |         |    |             |    |       | 6  | 0.137 |
| FY 2001 EQUIPMENT |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0   |
| FY 2002 EQUIPMENT |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0   |
| FY 2003 EQUIPMENT |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0   |
| FY 2004 EQUIPMENT |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0   |
| FY 2005 EQUIPMENT |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0   |
| TO COMPLETE       |             |    |         |    |         |     |         |       |         |     |         |    |         |    |         |    |         |    |             |    |       |    |       |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 2 | 0       | 2 | 0 | 0 | 0       | 4 | 2 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 10    |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 2 | 0 | 2 | 0       | 2 | 2 | 0 | 2       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 10    |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 125 TON AIR CONDITIONER TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT050) S/A 05077

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |     |         |     |         |     | 1       | 0.1 |         |     |         |     |         |     | 2       | 0.8 |         |     |     |    |       | 3  | 0.9  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     |         |     | 1       | 3.1 |         |     |         |     |         |     | AP      | 0.5 | 2       | 2.4 |     |    |       | 3  | 6.00 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 3.2 |         | 0.0 |         | 0.0 |         | 0.0 |         | 1.3 |         | 2.4 |     |    |       |    | 6.90 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: 125 TON A/C MODIFICATION TITLE: ITEMS UNDER 5M  
S/A 05077

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD/AIT  
 ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: 11/01/99 FY 2001: \_\_\_\_\_  
 DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: 5/1/2000 FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |     | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |     | FY 2005 |     | To Complete |    | Total |     |     |
|-------------------|-------------|----|---------|----|---------|----|---------|-----|---------|----|---------|----|---------|----|---------|-----|---------|-----|-------------|----|-------|-----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty         | \$ | Qty   | \$  |     |
| PRIOR YEARS       |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    | 0     | 0.0 |     |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |    | 1       | 3.1 |         |    |         |    |         |    |         |     |         |     |             |    |       | 1   | 3.1 |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       | 0   | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    | AP      | 0.5 | 2       | 2.4 |             |    |       | 2   | 2.9 |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       | 0   | 0.0 |
| TO COMPLETE       |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |     |         |     |             |    |       |     |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 1       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 2 | 0  | 3     |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 1 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 2  | 3     |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 2000KW GENERATORS TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT050) #1276

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |      | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |       |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|------|---------|-----|---------|-----|-----|----|-------|----|-------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$   | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |       |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    |       |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       | 0  | 0.0   |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    |       |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       | 0  | 0.0   |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    |       |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| EQUIPMENT                           |                 |     |         |     |         |     |         |     |         | 2   | 2.4     | 2   | 2.3     |      |         |     |         |     |     |    |       | 4  | 4.7   |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |      |         |     |         |     |     |    |       |    | 0.0   |
| INSTALL COST                        |                 |     |         |     |         |     |         |     | AP      | 0.1 | AP      | 0.6 | 2       | 10.6 | 2       | 7.7 |         |     |     |    |       | 4  | 19.00 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.1 |         | 3.0 |         | 12.9 |         | 7.7 |         | 0.0 |     |    |       |    | 23.70 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: 2000KW GENERATORS MODIFICATION TITLE: ITEMS UNDER 5M  
 # 1276

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |    | FY 2001 |     | FY 2002 |     | FY 2003 |      | FY 2004 |     | FY 2005 |    | To Complete |    | Total |     |      |
|-------------------|-------------|----|---------|----|---------|----|---------|----|---------|-----|---------|-----|---------|------|---------|-----|---------|----|-------------|----|-------|-----|------|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$  | Qty     | \$   | Qty     | \$  | Qty     | \$ | Qty         | \$ | Qty   | \$  |      |
| PRIOR YEARS       |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    | 0     | 0.0 |      |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       | 0   | 0.0  |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       | 0   | 0.0  |
| FY 2000 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       | 0   | 0.0  |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       | 0   | 0.0  |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |    | AP      | 0.1 | AP      | 0.6 | 2       | 10.3 |         |     |         |    |             |    |       | 2   | 11.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     | AP      | 0.3  | 2       | 7.7 |         |    |             |    |       | 2   | 8.0  |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       | 0   | 0.0  |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       | 0   | 0.0  |
| TO COMPLETE       |             |    |         |    |         |    |         |    |         |     |         |     |         |      |         |     |         |    |             |    |       |     |      |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 2 | 0 | 0 | 2       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 4     |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 2 | 2       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0  | 4     |

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SLEWING ARM DEVICES (SLADS TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: ITEMS UNDER 5M  
#1313 (LCC) AND #1172 (AGF)

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |     |         |     |         |     |         |     |         |     |         |     |         | 4   | 0.5     |     |         |     |     |    |       | 4  | 0.5  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     |         |     |         |     |         |     |         |     | AP      | 0.2 | AP      | 0.2 | 4       | 1.4 |     |    |       | 4  | 1.80 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.0 |         | 0.2 |         | 0.7 |         | 1.4 |     |    |       | 4  | 2.30 |



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: MACHINERY CONSOLES (ARS50 TYPE MODIFICATION: \_\_\_\_\_) MODIFICATION TITLE: ITEMS UNDER 5M  
 (LT180) AIT

DESCRIPTION/JUSTIFICATION:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

|                                     | FY 1997 & Prior |     | FY 1998 |     | FY 1999 |     | FY 2000 |     | FY 2001 |     | FY 2002 |     | FY 2003 |     | FY 2004 |     | FY 2005 |     | TC  |    | TOTAL |    |      |
|-------------------------------------|-----------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----|----|-------|----|------|
|                                     | QTY             | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY     | \$  | QTY | \$ | QTY   | \$ |      |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| <u>RDT&amp;E</u>                    |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| <u>PROCUREMENT</u>                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       | 0  | 0.0  |
| INSTALLATION KITS - UNIT COST       |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    |      |
| INSTALLATION KITS NONRECURRING      |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| EQUIPMENT                           |                 |     |         |     |         |     | 1       | 1.5 |         |     |         |     |         | 1   | 1.5     | 2   | 2.8     |     |     |    |       | 4  | 5.8  |
| EQUIPMENT NONRECURRING              |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| ENGINEERING CHANGE ORDERS           |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| DATA                                |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| TRAINING EQUIPMENT                  |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| SUPPORT EQUIPMENT                   |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| OTHER                               |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INTERIM CONTRACTOR SUPPORT          |                 |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |         |     |     |    |       |    | 0.0  |
| INSTALL COST                        |                 |     |         |     |         |     | 1       | 5.6 |         |     |         |     |         | 1   | 1.8     | 2   | 3.1     |     |     |    |       | 4  | 10.5 |
| TOTAL PROCUREMENT                   |                 | 0.0 |         | 0.0 |         | 0.0 |         | 7.1 |         | 0.0 |         | 0.0 |         | 0.0 |         | 3.3 |         | 5.9 |     |    |       |    | 16.3 |

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: MACHINERY CONSOLES MODIFICATION TITLE: ITEMS UNDER 5M  
ARS50 CL (LT180) AIT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 1 to 3 Months - VARIES (COTS ITEMS)

CONTRACT DATES: FY 1999: \_\_\_\_\_ FY 2000: 1/01/00 FY 2001: \_\_\_\_\_

DELIVERY DATE: FY 1999: \_\_\_\_\_ FY 2000: 2/01/00 FY 2001: \_\_\_\_\_

(\$ in Millions)

| Cost:             | Prior Years |    | FY 1998 |    | FY 1999 |    | FY 2000 |     | FY 2001 |    | FY 2002 |    | FY 2003 |    | FY 2004 |    | FY 2005 |    | To Complete |    | Total |    |     |     |
|-------------------|-------------|----|---------|----|---------|----|---------|-----|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|----|-----|-----|
|                   | Qty         | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$  | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty     | \$ | Qty         | \$ | Qty   | \$ |     |     |
| PRIOR YEARS       |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       | 0  | 0.0 |     |
| FY 1998 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    | 0   | 0.0 |
| FY 1999 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    | 0   | 0.0 |
| FY 2000 EQUIPMENT |             |    |         |    |         |    | 1       | 5.6 | \1_     |    |         |    |         |    |         |    |         |    |             |    |       |    | 1   | 5.6 |
| FY 2001 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    | 0   | 0.0 |
| FY 2002 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    | 0   | 0.0 |
| FY 2003 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    | 0   | 0.0 |
| FY 2004 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         | 1  | 1.8     |    |         |    |             |    |       |    | 1   | 1.8 |
| FY 2005 EQUIPMENT |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         | 2  | 3.1     |    |             |    |       |    | 2   | 3.1 |
| TO COMPLETE       |             |    |         |    |         |    |         |     |         |    |         |    |         |    |         |    |         |    |             |    |       |    |     |     |

INSTALLATION SCHEDULE:

|     | FY 1998 | FY 1999 |   |   |   | FY 2000 |   |   |   | FY 2001 |   |   |   | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   | FY 2005 |   |   |   | TC | TOTAL |
|-----|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
|     | & Prior | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |    |       |
| In  | 0       | 0       | 0 | 0 | 0 | 0       | 1 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 1 | 0 | 0 | 0       | 2 | 0 | 0 | 0  | 4     |
| Out | 0       | 0       | 0 | 0 | 0 | 0       | 0 | 1 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0       | 0 | 1 | 0 | 0       | 0 | 1 | 0 | 0       | 0 | 2 | 0 | 0  | 4     |

\1\_ Contains installation-related non-recurring costs of \$3.4M.

P-3A

CLASSIFICATION:

**UNCLASSIFIED**

| TIME PHASED REQUIREMENT SCHEDULE<br><b>P-23 SMART SHIP SYSTEMS<br/>(LT 140)</b> |                            | A. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b> |            |   |               |         |                     |   |                           |         |          |    |   | B. P-1 ITEM NOMENCLATURE<br><b>ITEMS UNDER \$5 MILLION<br/>(81LT)</b> |    |    |    |         |    |    |    | C. DATE<br><b>Feb-00</b> |    |    |    | LATER |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
|---------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------|------------|---|---------------|---------|---------------------|---|---------------------------|---------|----------|----|---|-----------------------------------------------------------------------|----|----|----|---------|----|----|----|--------------------------|----|----|----|-------|---------|----|----|----|----|----|----|----|----|----|----|---|---|---|---|--|
|                                                                                 |                            | FY 1999                                                            |            |   |               | FY 2000 |                     |   |                           | FY 2001 |          |    |   | FY 2002                                                               |    |    |    | FY 2003 |    |    |    | FY 2004                  |    |    |    |       | FY 2005 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
|                                                                                 |                            | 1                                                                  | 2          | 3 | 4             | 1       | 2                   | 3 | 4                         | 1       | 2        | 3  | 4 | 1                                                                     | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1                        | 2  | 3  | 4  | 1     | 2       | 3  | 4  | 1  | 2  | 3  | 4  |    |    |    |    |   |   |   |   |  |
| ACTIVE FORCE INVENTORY                                                          | LSD41 CL (P)<br>CV/CVN (P) |                                                                    |            |   |               |         |                     |   |                           |         |          | 1  | 1 |                                                                       | 1  | 1  | 1  |         |    |    | 2  | 1                        |    |    | 1  |       |         |    |    | 1  |    |    |    |    |    |    |    |   |   |   |   |  |
| SCHOOLS/OTHER TRAINING                                                          | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    | 1  | 1  |    |    |    |    |    |    |   |   |   |   |  |
| OTHER                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| TOTAL PHASED REQ                                                                | (C)                        | 0                                                                  | 0          | 0 | 0             | 0       | 0                   | 0 | 0                         | 0       | 0        | 1  | 2 | 2                                                                     | 4  | 5  | 6  | 8       | 9  | 9  | 10 | 10                       | 11 | 12 | 12 | 13    | 14      | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |   |   |   |   |  |
| ASSETS ON HAND                                                                  | (BP)                       |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| DELIVERY FY 98 & PRIOR                                                          | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 98 & PRIOR                                                                   | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 99                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 00                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 01                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          | 1  | 1 |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 02                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    | 1  | 2  | 1       |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 03                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    | 1  | 1  | 2                        |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 04                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| FY 05                                                                           | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| To Complete                                                                     | (P)                        |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
| TOTAL ASSETS                                                                    | (C)                        | 0                                                                  | 0          | 0 | 0             | 0       | 0                   | 0 | 0                         | 0       | 0        | 1  | 2 | 2                                                                     | 3  | 5  | 6  | 6       | 7  | 8  | 10 | 10                       | 10 | 11 | 11 | 12    | 12      | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |   |   |   |   |  |
| QTY OVER (+) OR SHORT (-)                                                       |                            | 0                                                                  | 0          | 0 | 0             | 0       | 0                   | 0 | 0                         | 0       | -1       | -1 | 0 | -2                                                                    | -2 | -1 | -2 | -3      | -2 | -2 | 0  | -1                       | -2 | -1 | -1 | -1    | -2      | -2 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 |  |
| D. REMARKS                                                                      | E. RQMT (QTY)              |                                                                    | TOTAL RQMT |   | INSTALLED     |         | ON HAND AS OF / /98 |   | FY 98 & PRIOR UNDELIVERED |         | UNFUNDED |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
|                                                                                 | 1. APPN - OPN (1810)       |                                                                    | 16         |   | 0             |         | 0                   |   | 0                         |         | 0        |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
|                                                                                 | 2. APPN -                  |                                                                    |            |   |               |         |                     |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |
|                                                                                 | 3. PROCUREMENT LEADTIME    |                                                                    | ADMIN      |   | INITIAL ORDER |         | REORDER             |   |                           |         |          |    |   |                                                                       |    |    |    |         |    |    |    |                          |    |    |    |       |         |    |    |    |    |    |    |    |    |    |    |   |   |   |   |  |

**UNCLASSIFIED**

CLASSIFICATION:

# UNCLASSIFIED

| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br>ITEMS UNDER \$5 MILLION (81LT)<br>SMART SHIP (LT140) |     |         |     |         |     |         |     | DATE<br><br>Feb-00 |  |  |  |
|------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|--------------------|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy                           |     |         |     |         |     |         |     | Installing Agent                                                                               |     |         |     |         |     |         |     |                    |  |  |  |
| 1ST QTR                                                                            |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                        |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                    |  |  |  |
| E.I./L                                                                             | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                         | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                    |  |  |  |
| FY 1998                                                                            |     |         |     |         |     |         |     | FY 1999                                                                                        |     |         |     |         |     |         |     |                    |  |  |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                                |     |         |     |         |     |         |     |                    |  |  |  |
| FY 2000                                                                            |     |         |     |         |     |         |     | FY 2001                                                                                        |     |         |     |         |     |         |     |                    |  |  |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                                |     |         |     | LSD 46  | 1   | LSD 42  | 1   |                    |  |  |  |

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 24 PAGE NO. 51

# UNCLASSIFIED

CLASSIFICATION:

# UNCLASSIFIED

| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A |     |                  |        |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br>ITEMS UNDER \$5 MILLION (81LT)<br>SMART SHIP (LT140) |        |         |     |         |     |         |     | DATE<br><br>Feb-00 |  |  |  |
|------------------------------------------------------------------------------------|-----|------------------|--------|---------|-----|---------|-----|------------------------------------------------------------------------------------------------|--------|---------|-----|---------|-----|---------|-----|--------------------|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy                           |     |                  |        |         |     |         |     | Installing Agent                                                                               |        |         |     |         |     |         |     |                    |  |  |  |
| 1ST QTR                                                                            |     | 2ND QTR          |        | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                        |        | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                    |  |  |  |
| E.I./L                                                                             | QTY | E.I./L           | QTY    | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                         | QTY    | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                    |  |  |  |
| FY 2002                                                                            |     |                  |        |         |     |         |     | FY 2003                                                                                        |        |         |     |         |     |         |     |                    |  |  |  |
|                                                                                    |     | LSD 44<br>CVN 70 | 1<br>1 | LSD 41  | 1   | LSD 43  | 1   | CV 67<br>CVN 63                                                                                | 1<br>1 | LSD 48  | 1   |         |     | LSD 45  | 1   |                    |  |  |  |
| FY 2004                                                                            |     |                  |        |         |     |         |     | FY 2005                                                                                        |        |         |     |         |     |         |     |                    |  |  |  |
|                                                                                    |     | CVN 68           | 1      | CVN 65  | 1   |         |     | CVN 73                                                                                         | 1      | CVN 74  | 1   |         |     |         |     |                    |  |  |  |

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 24

PAGE NO. 52

# UNCLASSIFIED

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| TIME PHASED REQUIREMENT SCHEDULE<br>P-23 ICAS (LT150)<br>(AIT)                                                                                                                             |              |      | A. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy |   |   |   |         |    |    |    |         |    |    |    | B. P-1 ITEM NOMENCLATURE<br>ITEMS UNDER \$5 MILLION (81LT) |    |    |    |               |    |    |    | C. DATE<br>Feb-00   |    |    |    | LATER                     |         |    |    |          |    |    |    |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|-------------------------------------------------------------|---|---|---|---------|----|----|----|---------|----|----|----|------------------------------------------------------------|----|----|----|---------------|----|----|----|---------------------|----|----|----|---------------------------|---------|----|----|----------|----|----|----|----|
|                                                                                                                                                                                            |              |      | FY 1999                                                     |   |   |   | FY 2000 |    |    |    | FY 2001 |    |    |    | FY 2002                                                    |    |    |    | FY 2003       |    |    |    | FY 2004             |    |    |    |                           | FY 2005 |    |    |          |    |    |    |    |
|                                                                                                                                                                                            |              |      | 1                                                           | 2 | 3 | 4 | 1       | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1                                                          | 2  | 3  | 4  | 1             | 2  | 3  | 4  | 1                   | 2  | 3  | 4  | 1                         | 2       | 3  | 4  | 1        | 2  | 3  | 4  |    |
| ACTIVE FORCE INVENTORY                                                                                                                                                                     | SURFACE COMB | (P)  |                                                             |   |   |   | 1       | 4  | 1  | 5  | 2       |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
|                                                                                                                                                                                            | CARRIERS     | (P)  |                                                             |   |   |   | 1       | 1  |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
|                                                                                                                                                                                            | OTHERS       | (P)  |                                                             |   |   |   | 1       | 4  | 2  | 2  |         |    | 3  | 3  | 1                                                          |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| SCHOOLS/OTHER TRAINING                                                                                                                                                                     |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| OTHER                                                                                                                                                                                      |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| TOTAL PHASED REQ                                                                                                                                                                           |              | (C)  | 0                                                           | 0 | 0 | 0 | 2       | 11 | 14 | 21 | 23      | 26 | 29 | 30 | 30                                                         | 30 | 30 | 30 | 30            | 30 | 30 | 30 | 30                  | 30 | 30 | 30 | 30                        | 30      | 30 | 30 | 30       | 30 | 30 | 30 | 30 |
| ASSETS ON HAND                                                                                                                                                                             |              | (BP) |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| DELIVERY FY 98 & PRIOR                                                                                                                                                                     |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 98 & PRIOR                                                                                                                                                                              |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 99                                                                                                                                                                                      |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 00 (Qty 21)                                                                                                                                                                             |              | (P)  |                                                             |   |   |   | 2       | 9  | 3  | 7  |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 01 (Qty 9)                                                                                                                                                                              |              | (P)  |                                                             |   |   |   |         |    |    |    | 2       | 3  | 3  | 1  |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 02                                                                                                                                                                                      |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 03                                                                                                                                                                                      |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 04                                                                                                                                                                                      |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| FY 05                                                                                                                                                                                      |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| To Complete                                                                                                                                                                                |              | (P)  |                                                             |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
| TOTAL ASSETS                                                                                                                                                                               |              | (C)  | 0                                                           | 0 | 0 | 0 | 2       | 11 | 14 | 21 | 23      | 26 | 29 | 30 | 30                                                         | 30 | 30 | 30 | 30            | 30 | 30 | 30 | 30                  | 30 | 30 | 30 | 30                        | 30      | 30 | 30 | 30       | 30 | 30 | 30 | 30 |
| QTY OVER (+) OR SHORT (-)                                                                                                                                                                  |              |      | 0                                                           | 0 | 0 | 0 | 0       | 0  | 0  | 0  | 0       | 0  | 0  | 0  | 0                                                          | 0  | 0  | 0  | 0             | 0  | 0  | 0  | 0                   | 0  | 0  | 0  | 0                         | 0       | 0  | 0  | 0        | 0  | 0  | 0  | 0  |
| D. REMARKS<br><br>CVN 72 AND 73 AVAILABILITIES (FY2001) FOR ICAS HAVE YET TO BE DETERMINED.<br><br>MHC SHIP ICAS UPGRADES WILL BE ACCOMPLISHED DEPENDING ON SHIPS' SCHEDULE (NOT IN COUNT) |              |      | E. RQMT (QTY)                                               |   |   |   |         |    |    |    |         |    |    |    | TOTAL RQMT                                                 |    |    |    | INSTALLED     |    |    |    | ON HAND AS OF / /98 |    |    |    | FY 98 & PRIOR UNDELIVERED |         |    |    | UNFUNDED |    |    |    |    |
|                                                                                                                                                                                            |              |      | 1. APPN - 1810 (OPN)                                        |   |   |   |         |    |    |    |         |    |    |    | 30                                                         |    |    |    | 0             |    |    |    | 0                   |    |    |    | 0                         |         |    |    | 0        |    |    |    |    |
|                                                                                                                                                                                            |              |      | 2. APPN -                                                   |   |   |   |         |    |    |    |         |    |    |    |                                                            |    |    |    |               |    |    |    |                     |    |    |    |                           |         |    |    |          |    |    |    |    |
|                                                                                                                                                                                            |              |      | 3. PROCUREMENT LEADTIME                                     |   |   |   |         |    |    |    |         |    |    |    | ADMIN                                                      |    |    |    | INITIAL ORDER |    |    |    | REORDER             |    |    |    |                           |         |    |    |          |    |    |    |    |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A |     |         |     |         |     |          |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br>ITEMS UNDER \$5 MILLION (81LT)<br>ICAS (LT150) AIT |     |         |     |         |     | DATE<br><br>Feb-00 |     |
|------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|----------|-----|----------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|--------------------|-----|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy                           |     |         |     |         |     |          |     | Installing Agent                                                                             |     |         |     |         |     |                    |     |
| 1ST QTR                                                                            |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR  |     | 1ST QTR                                                                                      |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR            |     |
| E.I./L                                                                             | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L   | QTY | E.I./L                                                                                       | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L             | QTY |
| FY 1998                                                                            |     |         |     |         |     |          |     | FY 1999                                                                                      |     |         |     |         |     |                    |     |
|                                                                                    |     |         |     |         |     |          |     |                                                                                              |     |         |     |         |     |                    |     |
| FY 2000                                                                            |     |         |     |         |     |          |     | FY 2001                                                                                      |     |         |     |         |     |                    |     |
| CVN 75                                                                             | 1   | CVN 70  | 1   | FFG 54  | 1   | DD 967   | 1   | CVN 72                                                                                       | 1   | LHA 1   | 1   | PC 7    | 1   | AOE 7              | 1   |
| LHD 1                                                                              | 1   | AOE 8   | 1   | MCS12   | 1   | DD(TBD)  | 1   | CVN 73                                                                                       | 1   | PC 9    | 1   | PC 8    | 1   |                    |     |
|                                                                                    |     | AOE 10  | 1   | LCC 19  | 1   | DDG(TBD) | 1   |                                                                                              |     | AOE 6   | 1   | AOE 4   | 1   |                    |     |
|                                                                                    |     | LHA 4   | 1   |         |     | FFG 46   | 1   |                                                                                              |     |         |     |         |     |                    |     |
|                                                                                    |     | LHA 5   | 1   |         |     | FFG 58   | 1   |                                                                                              |     |         |     |         |     |                    |     |
|                                                                                    |     | DD 965  | 1   |         |     | LHA(TBD) | 1   |                                                                                              |     |         |     |         |     |                    |     |
|                                                                                    |     | FFG 38  | 1   |         |     | AOE 3    | 1   |                                                                                              |     |         |     |         |     |                    |     |
|                                                                                    |     | FFG 55  | 1   |         |     |          |     |                                                                                              |     |         |     |         |     |                    |     |
|                                                                                    |     | FFG 49  | 1   |         |     |          |     |                                                                                              |     |         |     |         |     |                    |     |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br>ITEMS UNDER \$5 MILLION (81LT)<br>ICAS (LT150) AIT |     |         |     |         |     |         |     | DATE<br><br>Feb-00 |  |  |  |
|------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|----------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|--------------------|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy                           |     |         |     |         |     |         |     | Installing Agent                                                                             |     |         |     |         |     |         |     |                    |  |  |  |
| 1ST QTR                                                                            |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                      |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                    |  |  |  |
| E.I./L                                                                             | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                       | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                    |  |  |  |
| FY 2002                                                                            |     |         |     |         |     |         |     | FY 2003                                                                                      |     |         |     |         |     |         |     |                    |  |  |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                              |     |         |     |         |     |         |     |                    |  |  |  |
| FY 2004                                                                            |     |         |     |         |     |         |     | FY 2005                                                                                      |     |         |     |         |     |         |     |                    |  |  |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                              |     |         |     |         |     |         |     |                    |  |  |  |

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| TIME PHASED REQUIREMENT SCHEDULE<br>P-23 CVN69 (RCOH)<br>(LT 210)                                                                                                                      |  |  |  |  | A. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy |   |   |   |         |   |   |   |            |   |   |   | B. P-1 ITEM NOMENCLATURE<br>ITEMS UNDER \$5 MILLION<br>(81LT) |   |   |   |                     |    |    |    | C. DATE<br>Feb-00         |    |    |    |          |   |   |   |       |   |   |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|-------------------------------------------------------------|---|---|---|---------|---|---|---|------------|---|---|---|---------------------------------------------------------------|---|---|---|---------------------|----|----|----|---------------------------|----|----|----|----------|---|---|---|-------|---|---|---|---|
|                                                                                                                                                                                        |  |  |  |  | FY 1999                                                     |   |   |   | FY 2000 |   |   |   | FY 2001    |   |   |   | FY 2002                                                       |   |   |   | FY 2003             |    |    |    | FY 2004                   |    |    |    | FY 2005  |   |   |   | LATER |   |   |   |   |
|                                                                                                                                                                                        |  |  |  |  | 1                                                           | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1          | 2 | 3 | 4 | 1                                                             | 2 | 3 | 4 | 1                   | 2  | 3  | 4  | 1                         | 2  | 3  | 4  | 1        | 2 | 3 | 4 |       |   |   |   |   |
| ACTIVE FORCE INVENTORY CVN69 (P)                                                                                                                                                       |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   | 1                   |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| SCHOOLS/OTHER TRAINING (P)                                                                                                                                                             |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| OTHER (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| TOTAL PHASED REQ (C)                                                                                                                                                                   |  |  |  |  | 0                                                           | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0          | 0 | 0 | 0 | 0                                                             | 0 | 0 | 0 | 1                   | 1  | 1  | 1  | 1                         | 1  | 1  | 1  | 1        | 1 | 1 | 1 | 1     | 1 | 1 | 1 | 1 |
| ASSETS ON HAND (BP)                                                                                                                                                                    |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| DELIVERY FY 98 & PRIOR (P)                                                                                                                                                             |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 98 & PRIOR (P)                                                                                                                                                                      |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 99 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 00 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 01 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 02 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 03 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 04 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| FY 05 (P)                                                                                                                                                                              |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| To Complete (P)                                                                                                                                                                        |  |  |  |  |                                                             |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
| TOTAL ASSETS (C)                                                                                                                                                                       |  |  |  |  | 0                                                           | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0          | 0 | 0 | 0 | 0                                                             | 0 | 0 | 0 | 0                   | 0  | 0  | 0  | 0                         | 0  | 0  | 0  | 0        | 0 | 0 | 0 | 1     | 1 | 1 | 1 | 1 |
| QTY OVER (+) OR SHORT (-)                                                                                                                                                              |  |  |  |  | 0                                                           | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0          | 0 | 0 | 0 | 0                                                             | 0 | 0 | 0 | -1                  | -1 | -1 | -1 | -1                        | -1 | -1 | -1 | 0        | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 |
| D. REMARKS<br>RCOH availability is 5/01 to 2/04. OPN items will be procured beginning 1st quarter FY01 with final item installation by 1st quarter FY05. Items have varying leadtimes. |  |  |  |  | E. RQMT (QTY)                                               |   |   |   |         |   |   |   | TOTAL RQMT |   |   |   | INSTALLED                                                     |   |   |   | ON HAND AS OF / /98 |    |    |    | FY 98 & PRIOR UNDELIVERED |    |    |    | UNFUNDED |   |   |   |       |   |   |   |   |
|                                                                                                                                                                                        |  |  |  |  | 1. APPN - OPN (1810)                                        |   |   |   |         |   |   |   | 1          |   |   |   | 0                                                             |   |   |   | 0                   |    |    |    | 0                         |    |    |    |          |   |   |   |       |   |   |   |   |
|                                                                                                                                                                                        |  |  |  |  | 2. APPN -                                                   |   |   |   |         |   |   |   |            |   |   |   |                                                               |   |   |   |                     |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |
|                                                                                                                                                                                        |  |  |  |  | 3. PROCUREMENT LEADTIME                                     |   |   |   |         |   |   |   | ADMIN      |   |   |   | INITIAL ORDER                                                 |   |   |   | REORDER             |    |    |    |                           |    |    |    |          |   |   |   |       |   |   |   |   |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br>ITEMS UNDER \$5 MILLION (81LT)<br>CVN69 (RCOH) (LT210) |     |         |     |         |     |         |     | DATE<br><br>Feb-00 |  |
|------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|--------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|--------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy                           |     |         |     |         |     |         |     | Installing Agent                                                                                 |     |         |     |         |     |         |     |                    |  |
| 1ST QTR                                                                            |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                          |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                    |  |
| E.I./L                                                                             | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                           | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                    |  |
| FY 1998                                                                            |     |         |     |         |     |         |     | FY 1999                                                                                          |     |         |     |         |     |         |     |                    |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                                  |     |         |     |         |     |         |     |                    |  |
| FY 2000                                                                            |     |         |     |         |     |         |     | FY 2001                                                                                          |     |         |     |         |     |         |     |                    |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                                  |     |         |     |         |     |         |     |                    |  |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br>ITEMS UNDER \$5 MILLION (81LT)<br>CVN69 (RCOH) (LT210) |     |         |     |         |     |         |     | DATE<br><br>Feb-00 |  |
|------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|--------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|--------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy                           |     |         |     |         |     |         |     | Installing Agent                                                                                 |     |         |     |         |     |         |     |                    |  |
| 1ST QTR                                                                            |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                          |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                    |  |
| E.I./L                                                                             | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                           | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                    |  |
| FY 2002                                                                            |     |         |     |         |     |         |     | FY 2003                                                                                          |     |         |     |         |     |         |     |                    |  |
|                                                                                    |     |         |     |         |     |         |     | CVN69<br>(RCOH)                                                                                  | 1   |         |     |         |     |         |     |                    |  |
| FY 2004                                                                            |     |         |     |         |     |         |     | FY 2005                                                                                          |     |         |     |         |     |         |     |                    |  |
|                                                                                    |     |         |     |         |     |         |     |                                                                                                  |     |         |     |         |     |         |     |                    |  |

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 24

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# UNCLASSIFIED

|                                                       |                               |
|-------------------------------------------------------|-------------------------------|
| <b>BUDGET ITEM JUSTIFICATION SHEET</b><br><b>P-40</b> | DATE:<br><b>FEBRUARY 2000</b> |
|-------------------------------------------------------|-------------------------------|

|                                                                                                         |                                                                                    |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA 1: SHIPS SUPPORT EQUIPMENT</b> | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><br><b>SURFACE IMA BLI: 098300 SBHD: 81K6</b> |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

|                                   |                                |
|-----------------------------------|--------------------------------|
| Program Element for Code B Items: | OTHER RELATED PROGRAM ELEMENTS |
|-----------------------------------|--------------------------------|

|                                     | Prior Years | ID Code |  |  | FY 1999      | FY 2000      | FY 2001      | FY 2002      | FY 2003      | FY 2004      | FY 2005      | To Complete | Total         |
|-------------------------------------|-------------|---------|--|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|
| <b>QUANTITY</b>                     |             |         |  |  |              |              |              |              |              |              |              |             |               |
| <b>EQUIPMENT COST (In Millions)</b> |             |         |  |  | <b>\$4.1</b> | <b>\$0.0</b> | <b>\$2.0</b> | <b>\$1.6</b> | <b>\$1.8</b> | <b>\$1.2</b> | <b>\$1.6</b> | <b>N/A</b>  | <b>\$12.3</b> |
| <b>SPARES COST (In Millions)</b>    |             |         |  |  |              |              |              |              |              |              |              |             |               |

**PROGRAM DESCRIPTION/JUSTIFICATION:**

AS A RESULT OF ISSUE 62639 (CONSOLIDATION OF P-1 ITEMS UNDER \$5M) THIS BUDGET WAS CONSOLIDATED UNDER OPERATING FORCES IPE, BLI:144500, SUBHEAD 81KN EFFECTIVE FY 00 AND OUT.

**Intermediate Maintenance Activity (IMA) Improvement Program:**

The IMA Improvement Program funds are used to procure industrial plant equipment for shore activities which provide maintenance capabilities for Sailors to maintain surface and sub-surface vessels of the U.S. Navy. These activities ashore include the following: Shore Intermediate Maintenance Activities (SIMAs), Trident Refit Facilities (TRFs), Regional Repair Centers, Subase Repair Activities, and Air Cushion Unit Facilities and Ship Repair Facilities (SRFs). The equipment provided to ashore activities correlates to skills required when Sailors are assigned to maintenance shops afloat. The programs provide new and used Industrial Plant Equipment (IPE) to replace equipment beyond economical repair and to upgrade capabilities for ship maintenance under the following categories:

**MILITARY CONSTRUCTION OUTFITTING (MCON)** : Modern IPE, test equipment, and associated support equipment must be procured and installed or available for use in the work spaces. Procurement of equipment is phased to coincide with military construction milestones. **IPE REPLACEMENT** - SIMAs are inspected periodically to determine the need for refurbishment or replacement of existing equipment. **IMA UPGRADE** - IMA Upgrade provides technology to improve work shop productivity and add new capabilities, to meet changing OSHA and EPA standards, and to maintain existing capabilities where machinery becomes uneconomical to repair. New equipment is procured to satisfy realignment of capabilities at IMAs in support of new systems.

**PEARL HARBOR PILOT PROGRAM:**

This line item provides funding for the newly established consolidated Pearl Harbor Naval Shipyard/Intermediate Maintenance Facility (PHNSY/IMF). Funds will be used for the procurement and execution of Class 2 plant property projects, minor construction projects, and Class 3 & 4 industrial plant equipment projects to maintain, modernize, and improve the PHNSY/IMF infrastructure and industrial base. Funding will allow PHNSY/IMF to perform the mission of repairing, conversion, and modernization of fleet ships and submarines in the most economical, efficient, environmentally sound, and safe manner possible. As this is a pilot program having impact on other fleet depot maintenance activities, it is critical these projects be funded in order to most accurately determine the economic and operational success or failure of the program itself.

**REGIONAL MAINTENANCE AIS:**

Outyear funding provides support for the Regional Maintenance Automated Information System (RMAIS) Initiative. Specifically the funds will be used to procure computer hardware and software needed to connect existing Maintenance Automated Information Systems with established Local Area Networks (LANs) and Wide Area Networks (WANS) to facilitate the transfer of maintenance data. The per unit cost for this effort is \$100K per server, which includes hardware, software and installation.



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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       |                              |         |         |           | Weapon System                                                       |         |           | DATE:<br>FEBRUARY 2000 |         |           |              |         |           |              |
|-------------------------------------------------------------------------------------------|------------------------------|---------|---------|-----------|---------------------------------------------------------------------|---------|-----------|------------------------|---------|-----------|--------------|---------|-----------|--------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: SHIPS SUPPORT EQUIPMENT |                              |         |         | ID Code   | P-1 ITEM NOMENCLATURE/SUBHEAD<br>SURFACE IMA BLI: 098300 SBHD: 81K6 |         |           |                        |         |           |              |         |           |              |
| COST CODE                                                                                 | ELEMENT OF COST              | ID CODE | FY 2002 |           |                                                                     | FY 2003 |           |                        | FY 2004 |           |              | FY 2005 |           |              |
|                                                                                           |                              |         | QTY     | UNIT COST | TOTAL COST                                                          | QTY     | UNIT COST | TOTAL COST             | QTY     | UNIT COST | TOTAL COST   | QTY     | UNIT COST | TOTAL COST   |
|                                                                                           | <u>LOGISTICS - N43 - IMA</u> |         |         |           |                                                                     |         |           |                        |         |           |              |         |           |              |
|                                                                                           | K6100 SURFPAC (MCON)         |         |         |           | 0                                                                   |         |           | 0                      |         |           | 0            |         |           | 0            |
|                                                                                           | IPE REPLACEMENT              |         |         |           | 0                                                                   |         |           | 0                      |         |           | 0            |         |           | 0            |
|                                                                                           | IMA UPGRADE                  |         |         |           | 0                                                                   |         |           | 0                      |         |           | 0            |         |           | 0            |
|                                                                                           | REGIONAL MAINTENANCE AIS     |         | 10      | 100       | 1,041                                                               | 11      | 100       | 1,061                  | 11      | 100       | 1,079        | 11      | 100       | 1,107        |
|                                                                                           | PEARL HARBOR PILOT           |         |         |           | 557                                                                 |         |           | 722                    |         |           | 150          |         |           | 524          |
| <b>TOTAL</b>                                                                              |                              |         |         |           | <b>1,598</b>                                                        |         |           | <b>1,783</b>           |         |           | <b>1,229</b> |         |           | <b>1,631</b> |

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| BUDGET ITEM JUSTIFICATION SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |  |  |         |         |                                                       |         |         | DATE:         |         |             |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--|--|---------|---------|-------------------------------------------------------|---------|---------|---------------|---------|-------------|-------|
| P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |  |  |         |         |                                                       |         |         | February 2000 |         |             |       |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |  |  |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #                     |         |         |               |         |             |       |
| OTHER PROCUREMENT, NAVY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |  |  |         |         | MINI/MICROMINIATURE ELECTRONIC TEST AND REPAIR (81G4) |         |         |               |         |             |       |
| BA: 1 SHIPS SUPPORT EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |  |  |         |         | BLI: 098800                                           |         |         |               |         |             |       |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |  |  |         |         | OTHER RELATED PROGRAM ELEMENTS                        |         |         |               |         |             |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prior Years | ID Code |  |  | FY 1999 | FY 2000 | FY 2001                                               | FY 2002 | FY 2003 | FY 2004       | FY 2005 | To Complete | Total |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N/A         | A       |  |  |         |         |                                                       |         |         |               |         |             | 0     |
| EQUIPMENT COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |  |  | \$0.5   | \$0.0   | \$0.0                                                 | \$0.0   | \$0.0   | \$0.0         | \$0.0   | N/A         | \$0.5 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |  |  |         |         |                                                       |         |         |               |         |             | 0     |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |  |  |         |         |                                                       |         |         |               |         |             |       |
| <p>NOTE: The Support and Test Equipment Engineering Program (STEEP) funding to Surface IMA (Ashore) and recommended that all STEEP requirements be identified here in the 2M repair program. Funding for STEEP is not being transferred to the 2M repair program, but will remain in the Surface IMA Program (81K6) for IMA MILCON projects and IMA upgrades .</p> <p>1. The Navy 2M Program provides sailors with the capability to repair electronic Circuit Card Assemblies (CCAs) and Electronic Modules (EMs) at Intermediate Maintenance Activities and aboard most combatants. Funding to requirement levels will enable Navy cost avoidance annually by Fleet maintenance levels executing CCA repairs in lieu of more expensive depot sites. The services provided by 2M allow new repair tools to be selected, deployed, and supported in the Fleet in time to support new CCA technologies. 2. The STEEP Program provides support and test equipment for Intermediate Maintenance Activities and aboard most combatants. Funding of this program to requirement levels results in lower maintenance costs and enables readiness of respective electronic equipment to be maintained. Deploying Automatic Test (ATE) and Diagnostic Equipment, and their respective Test Program Sets and Gold Disks allows shipboard personnel to test and diagnose circuit card assemblies at the site of the operational failure. Outyear funding will be used to procure and deploy commercial equipment to test and diagnose new electronic technologies being introduced into the Fleet. The STEEP and 2M Programs (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding OPTAR costs and averting CASREPs due to long (up to 120 days) logistics delays. Due to changing technologies, CCAs currently in the Fleet range in price from \$500 to \$40K each. Currently deployed repair tools, equipment and repair processes will not support repair of CCAs containing advanced technologies such as surface mount and leadless ship carrier. This technology is now becoming prevalent in commercial and military equipment.</p> <p>The value of the 2M repair program is not restricted to a platform or system nor is limited to purely monetary avoidances. The 2M repair program allows Fleet readiness to be maintained by providing a capability for quality Fleet repairs, thus reducing degradation of equipment reliability and availability.</p> <p>This program is a continuing program. As such, the quantities identified in this budget will be used to procure new technology tools and integrate capabilities to enable them to be more usable for the sailor.</p> |             |         |  |  |         |         |                                                       |         |         |               |         |             |       |

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       |                             |         |                                    |           |            | Weapon System |                                                                                        |            | DATE:<br>February 2000 |           |            |         |           |            |
|-------------------------------------------------------------------------------------------|-----------------------------|---------|------------------------------------|-----------|------------|---------------|----------------------------------------------------------------------------------------|------------|------------------------|-----------|------------|---------|-----------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: Ships Support Equipment |                             |         |                                    |           |            | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>MINI/MICROMINIATURE ELECTRONIC TEST AND REPAIR (81G4) |            |                        |           |            |         |           |            |
| COST CODE                                                                                 | ELEMENT OF COST             | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |           |            |               |                                                                                        |            |                        |           |            |         |           |            |
|                                                                                           |                             |         |                                    |           |            | FY 1999       |                                                                                        |            | FY 2000                |           |            | FY 2001 |           |            |
|                                                                                           |                             |         | QTY                                | UNIT COST | TOTAL COST | QTY           | UNIT COST                                                                              | TOTAL COST | QTY                    | UNIT COST | TOTAL COST | QTY     | UNIT COST | TOTAL COST |
| G4001                                                                                     | Diagnostic and Repair Tools |         |                                    |           |            |               |                                                                                        | 512        |                        |           | 0          |         |           | 0          |
| <b>TOTAL</b>                                                                              |                             |         |                                    |           |            |               |                                                                                        | 512        |                        |           | 0          |         |           | 0          |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |            |         |              |              |              | DATE: <b>FEBRUARY 2000</b>                                                    |              |              |              |                |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|---------|--------------|--------------|--------------|-------------------------------------------------------------------------------|--------------|--------------|--------------|----------------|---------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA -1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |            |         |              |              |              | P-1 ITEM NOMENCLATURE<br><b>Submarine Life Support BLI: 099000 SBHD: 815D</b> |              |              |              |                |               |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |            |         |              |              |              | Other Related Program Elements                                                |              |              |              |                |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Prior<br>Years | ID<br>Code | FY 1998 | FY 1999      | FY 2000      | FY 2001      | FY 2002                                                                       | FY 2003      | FY 2004      | FY 2005      | To<br>Complete | Total         |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |         |              |              |              |                                                                               |              |              |              |                |               |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |         | <b>\$0.0</b> | <b>\$1.3</b> | <b>\$4.9</b> | <b>\$4.9</b>                                                                  | <b>\$3.8</b> | <b>\$3.8</b> | <b>\$3.9</b> |                | <b>\$22.6</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |            |         |              |              |              |                                                                               |              |              |              |                | <b>\$0.0</b>  |
| <p>5D007 - THE ELECTROLYTIC OXYGEN GENERATOR CONTROLLER - A replacement digital controller developed to replace the antiquated analog controller currently being used on all Electrolytic Oxygen Generators (EOG). This Controller was designed in the 1950's and redesigned in the 1960's is no longer logistically serviceable.</p> <p>The replacement controller will require 12,000 fewer parts, replace the gas analyzer, provide greater reliability and allow for self diagnostics. In addition, this change will completely automate EOG including start up, shut-downs and purging situations. The EOG will be modified by installation teams during the ships refit period and will take eight days to complete.</p> <p>5D830 - PRODUCTION ENGINEERING - The review and approval of any production contract technical documentation, or the separate development of this documentation to include, technical manuals, PMS, Level III production drawings, provisioning technical documentation (PTD), Program Support Data (PSD) and Allowance Parts Lists (APL); Engineering &amp; support for final design reviews. This work can be accomplished by NSWC PHILA as the in-service engineering agent, other Naval activities or contractors as appropriate.</p> |                |            |         |              |              |              |                                                                               |              |              |              |                |               |

|                                            |               |                               |
|--------------------------------------------|---------------|-------------------------------|
| <b>WEAPONS SYSTEM COST ANALYSIS</b><br>P-5 | Weapon System | DATE:<br><b>FEBRUARY 2000</b> |
|--------------------------------------------|---------------|-------------------------------|

|                                                                                                        |         |                                                                                       |
|--------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy</b><br><b>BA-1 Ships Support Equipment</b> | ID Code | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>Submarine Life Support BLI: 099000 SBHD: 815D</b> |
|--------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|

| COST CODE | ELEMENT OF COST                              | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |            |          |           |            |          |           |            |          |           |            |  |  |
|-----------|----------------------------------------------|---------|------------------------------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|--|--|
|           |                                              |         | Prior Years                        | FY       |           |            | FY 1999  |           |            | FY 2000  |           |            | FY 2001  |           |            |  |  |
|           |                                              |         | Total Cost                         | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost |  |  |
|           | <u>N87 SUBMARINE WARFARE</u>                 |         |                                    |          |           |            |          |           |            |          |           |            |          |           |            |  |  |
| 5D007     | ELECTROLYTIC OXYGEN GENERATOR (EOG) CONTROLS | A       |                                    |          |           |            |          |           |            | 1        | 1,318     | 1,318      | 4        | 1,204     | 4,817      |  |  |
| 5D830     | PRODUCTION ENGINEERING                       |         |                                    |          |           |            |          |           |            |          |           |            |          |           | 35         |  |  |
|           |                                              |         | 0                                  |          |           | 0          |          |           | 0          |          |           | 1,318      |          |           | 4,852      |  |  |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                             |                                                                                 |          |           |              |          |           | Weapon System |          |                                                                                       |              |          | DATE:<br><b>FEBRUARY 2000</b> |              |             |          |          |          |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------|-----------|--------------|----------|-----------|---------------|----------|---------------------------------------------------------------------------------------|--------------|----------|-------------------------------|--------------|-------------|----------|----------|----------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ship Support Equipment</b> |                                                                                 |          |           |              |          |           | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD<br><b>Submarine Life Support BLI: 099000 SBHD: 815D</b> |              |          |                               |              |             |          |          |          |
| COST CODE                                                                                       | ELEMENT OF COST                                                                 | FY 2002  |           |              | FY 2003  |           |               | FY 2004  |                                                                                       |              | FY 2005  |                               |              | To Complete |          | Total    |          |
|                                                                                                 |                                                                                 | Quantity | Unit Cost | Total Cost   | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost                                                                             | Total Cost   | Quantity | Unit Cost                     | Total Cost   | Quantity    | Cost     | Quantity | Cost     |
| 5D007                                                                                           | <u>N87 SUBMARINE WARFARE</u><br>ELECTROLYTIC OXYGEN<br>GENERATOR (EOG) CONTROLS | 4        | 1,185     | 4,740        | 3        | 1,094     | 3,282         | 3        | 1,118                                                                                 | 3,354        | 3        | 1,242.7                       | 3,728        |             |          |          |          |
| 5D830                                                                                           | PRODUCTION ENGINEERING                                                          |          |           | 195          |          |           | 471           |          |                                                                                       | 459          |          |                               | 150          |             |          |          |          |
|                                                                                                 |                                                                                 |          |           | <b>4,935</b> |          |           | <b>3,753</b>  |          |                                                                                       | <b>3,813</b> |          |                               | <b>3,878</b> |             | <b>0</b> |          | <b>0</b> |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)  |          |                       |                    |                   | Weapon System                      |                            |               | A. DATE                      |                           |                                |  |
|---------------------------------------------------------|----------|-----------------------|--------------------|-------------------|------------------------------------|----------------------------|---------------|------------------------------|---------------------------|--------------------------------|--|
| B. APPROPRIATION/BUDGET ACTIVITY                        |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE           |                            |               |                              | SUBHEAD                   |                                |  |
| Other Procurement, Navy<br>BA-1 Ships Support Equipment |          |                       |                    |                   | Submarine Life Support BLI: 099000 |                            |               |                              | 815D                      |                                |  |
| Cost Element/<br>FISCAL YEAR                            | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE       | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |  |
| <u>FY 2000</u><br>EOG<br>CONTROLLER                     | 1        | 1,318                 | NSWC PHILA, PA     |                   | RCP                                | TREADWELL                  | MAY 00        | MAY 01                       | YES                       |                                |  |
| <u>FY 2001</u><br>EOG<br>CONTROLLER                     | 4        | 1,204                 | NSWC PHILA, PA     |                   | RCP/OPT                            | TREADWELL                  | DEC 01        | DEC 02                       | YES                       |                                |  |
| D. REMARKS                                              |          |                       |                    |                   |                                    |                            |               |                              |                           |                                |  |

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| TIME PHASED REQUIREMENT SCHEDULE<br>P-23 |                                   |   |   |   | A. APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |   |   |   |                  |   |   |   | B. P-1 ITEM NOMENCLATURE<br>Submarine Life Support |   |   |   |                         |    |    |    | C. DATE<br>Feb-00              |    |    |    |                |    |    |    |       |    |    |    |    |
|------------------------------------------|-----------------------------------|---|---|---|---------------------------------------------------------------------------------------------|---|---|---|------------------|---|---|---|----------------------------------------------------|---|---|---|-------------------------|----|----|----|--------------------------------|----|----|----|----------------|----|----|----|-------|----|----|----|----|
|                                          | FY 1999                           |   |   |   | FY 2000                                                                                     |   |   |   | FY 2001          |   |   |   | FY 2002                                            |   |   |   | FY 2003                 |    |    |    | FY 2004                        |    |    |    | FY 2005        |    |    |    | LATER |    |    |    |    |
|                                          | 1                                 | 2 | 3 | 4 | 1                                                                                           | 2 | 3 | 4 | 1                | 2 | 3 | 4 | 1                                                  | 2 | 3 | 4 | 1                       | 2  | 3  | 4  | 1                              | 2  | 3  | 4  | 1              | 2  | 3  | 4  |       |    |    |    |    |
| ACTIVE FORCE INVENTORY (P)               |                                   |   |   |   |                                                                                             |   |   |   |                  | 1 |   |   | 4                                                  |   |   |   | 4                       |    |    |    | 3                              |    |    |    | 3              |    |    |    |       |    |    |    | 3  |
| SCHOOLS/OTHER TRAINING (P)               |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| OTHER (P)                                |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| TOTAL PHASED REQ (C)                     | 0                                 | 0 | 0 | 0 | 0                                                                                           | 0 | 0 | 0 | 0                | 1 | 1 | 1 | 5                                                  | 5 | 5 | 5 | 9                       | 9  | 9  | 9  | 12                             | 12 | 12 | 12 | 15             | 15 | 15 | 15 | 15    | 15 | 15 | 15 | 18 |
| ASSETS ON HAND (BP)                      |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| DELIVERY FY 98 & PRIOR (P)               |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 98 & PRIOR (P)                        |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 99 (P)                                |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 00 (P)                                |                                   |   |   |   |                                                                                             |   | 1 |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 01 (P)                                |                                   |   |   |   |                                                                                             |   |   |   | 4                |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 02 (P)                                |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   | 4                                                  |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 03 (P)                                |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   | 3                       |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 04 (P)                                |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    | 3                              |    |    |    |                |    |    |    |       |    |    |    |    |
| FY 05 (P)                                |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    | 3              |    |    |    |       |    |    |    |    |
| To Complete (P)                          |                                   |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
| TOTAL ASSETS (C)                         | 0                                 | 0 | 0 | 0 | 0                                                                                           | 0 | 1 | 1 | 5                | 5 | 5 | 5 | 9                                                  | 9 | 9 | 9 | 12                      | 12 | 12 | 12 | 15                             | 15 | 15 | 15 | 18             | 18 | 18 | 18 | 18    | 18 | 18 | 18 | 18 |
| QTY OVER (+) OR SHORT (-)                | 0                                 | 0 | 0 | 0 | 0                                                                                           | 0 | 1 | 1 | 5                | 4 | 4 | 4 | 4                                                  | 4 | 4 | 4 | 3                       | 3  | 3  | 3  | 3                              | 3  | 3  | 3  | 3              | 3  | 3  | 3  | 3     | 3  | 3  | 3  | 0  |
| D. REMARKS                               | E. RQMT (QTY)                     |   |   |   |                                                                                             |   |   |   | TOTAL RQMT<br>18 |   |   |   | INSTALLED                                          |   |   |   | ON HAND AS OF 9/99<br>0 |    |    |    | FY 01 & PRIOR UNDELIVERED<br>5 |    |    |    | UNFUNDED<br>13 |    |    |    |       |    |    |    |    |
|                                          | 1. APPN -                         |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
|                                          | 2. APPN -                         |   |   |   |                                                                                             |   |   |   |                  |   |   |   |                                                    |   |   |   |                         |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |
|                                          | 3. PROCUREMENT LEADTIME 12 months |   |   |   |                                                                                             |   |   |   | ADMIN 3 months   |   |   |   | INITIAL ORDER                                      |   |   |   | REORDER                 |    |    |    |                                |    |    |    |                |    |    |    |       |    |    |    |    |

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| TIME PHASED REQUIREMENTS SCHEDULE<br>(SUPPLEMENT SHEET-INSTALLATION DATA)<br>P-23A              |     |         |     |         |     |         |     | P-1 ITEM NOMENCLATURE/PROJECT UNIT<br><br><b>Submarine Life Support BLI: 099000 SBHD: 815D</b> |     |         |     |         |     |         |     | DATE<br><br><b>Feb-00</b> |  |
|-------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|------------------------------------------------------------------------------------------------|-----|---------|-----|---------|-----|---------|-----|---------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ship Support Equipment</b> |     |         |     |         |     |         |     | Installing Agent                                                                               |     |         |     |         |     |         |     |                           |  |
| 1ST QTR                                                                                         |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     | 1ST QTR                                                                                        |     | 2ND QTR |     | 3RD QTR |     | 4TH QTR |     |                           |  |
| E.I./L                                                                                          | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L                                                                                         | QTY | E.I./L  | QTY | E.I./L  | QTY | E.I./L  | QTY |                           |  |
| FY 2002                                                                                         |     |         |     |         |     |         |     | FY 2003                                                                                        |     |         |     |         |     |         |     |                           |  |
| EOG                                                                                             | 4   |         |     |         |     |         |     | EOG                                                                                            | 4   |         |     |         |     |         |     |                           |  |
| FY 2004                                                                                         |     |         |     |         |     |         |     | FY 2005                                                                                        |     |         |     |         |     |         |     |                           |  |
| EOG                                                                                             | 3   |         |     |         |     |         |     | EOG                                                                                            | 3   |         |     |         |     |         |     |                           |  |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |         |         |         | DATE:<br>February 2000                                                              |         |         |         |             |        |
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| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |         |         |         | P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |         |         |         |             |        |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |         |         |         |         |         | Other Related Program Elements                                                      |         |         |         |             |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Prior Years | ID Code | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002                                                                             | FY 2003 | FY 2004 | FY 2005 | To Complete | Total  |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |         |         |         |                                                                                     |         |         |         |             |        |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |         | \$5.6   | \$5.5   | \$5.6   | \$5.7                                                                               | \$5.8   | \$5.9   | \$6.0   |             | \$40.1 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |         |         |         |                                                                                     |         |         |         |             | \$0.0  |
| <p>DIVING - (N873)</p> <p>This request provides funding for procurement of modern equipment to replace the Navy's archaic diving systems. The demand for divers' services for salvage, ship husbandry, repair and sanitizing work is rapidly increasing. The requested funding buys diving hardware which increases the efficiency and safety of the working diver. Program objectives are to: (1) provide increased safety for diver decompression and better recompression chamber patient monitoring capability, (2) increase underwater ship maintenance capabilities, (3) improve quick response capability, and (4) standardize the configuration of diving systems in the Fleet. The major items of procurement are:</p> <p>HY106 Lightweight Dive System (LWDS):</p> <p>a. This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working divers and a standby diver to 190 feet of seawater (FSW) for up to a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. The Diver Equipment will interface with all Navy certified, air surface supplied diving systems. Required I/O is 40.</p> <p>DLSS:</p> <ol style="list-style-type: none"> <li>1. Compressor Package - Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.</li> <li>2. Composite Flasks - Racks of composite HP cylinders; with manifolds and interconnecting hoses.</li> <li>3. Volume Tank - Assembly mounted on separate frame; with interconnecting hoses.</li> <li>4. Control Console - Suitcase size with air supply and pneumofathometer control.</li> </ol> <p>b. 3000 PSI Flask Replacement:<br/>This item replaces the composite flasks used in the LWDS which have reached their 15 year service life. I/O is 564.</p> <p>c. Engineering Change Proposals: Required to upgrade the LWDS for 190 fsw capability and 5000 psi service.</p> |             |         |         |         |         |         |                                                                                     |         |         |         |             |        |

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| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            | DATE:                |
| <b>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            | <b>February 2000</b> |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | P-1 ITEM NOMENCLATURE                                      |                      |
| <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |                      |
| <p>HY107 Portable Recompression Chamber:</p> <ul style="list-style-type: none"> <li>a. Portable Chamber: The Paracel Transportable Recompression Chamber System provides an effective two-man evacuation, transport, treatment, and transfer under pressure capability in order to benefit a diver suffering a pressure related ailment requiring urgent hyperbaric treatment. This is the lightest, most transportable system available to the U. S. Navy. Required I/O is 16.</li> <li>b. Engineering Change Proposals</li> <li>c. Environmental Upgrade Package: This item modified existing systems with an environmental system to allow operation in both hot and cold extreme temperature environments. I/O is 16.</li> </ul> <p>HY123 Flyaway Dive System (FADS) III: The FADS III is a matrix of components designed to support manned diving to 300 fsw. It is made up of two major subsystems, the High Pressure (H.P.) Air System and the Mixed Gas System. The air system consists of a 5000 psi air rack using lightweight composite flasks, a portable diver's air console, and a 5000 psi air compressor packaged for flyaway applications. The mixed gas subsystem consists of H.P racks for containment of various gas mixes required for diving operations, a mixed gas diving console, and a gas transfer system for charging mixed gas flasks. The matrix concept is designed to provide maximum flexibility in assembling equipment necessary to support a dive mission. Required I/O's are 19 High Pressure Air Systems and 5 Mixed Gas Systems.</p> <p>HY132 Recompression Chamber: The Recompression Chambers are to be conventional chambers designed to be built using standard commercial specification and standards. Chambers will be capable of providing a full range of recompression treatment to two patients and two attendants. Two types will be procured, a portable chamber (containerized) and a fixed chamber. These will replace aging and difficult to maintain recompression chambers that will be retired due to fatigue and material flaws. Required I/O's are 7 portable and 5 fixed chambers.</p> <p>HY176 Oil Free Compressors: This item replaces high pressure Air Compressors in existing diver's life support systems which have reached the end of their service life. Required I/O is 64.</p> <p>HY177 Air Purification Units: This item is used when charging diver's life support system (DLSS) flasks or inserted inline in the DLSS to purify and monitor diver's breathing air. It will enhance diver's safety by providing constant monitoring of diver's breathing air and eliminate the need for the semi-annual air samples of all diver's breathing air compressors. Required I/O is 500 units.</p> <p>HY179 Navy Experimental Diving Unit: NEDU's mission is to support the Fleet diver through test and evaluation of diving equipment's and procedures as well as hyperbaric systems for NAVSEA, Navy, and DoD activities. Funding is to procure equipment for test, facilities atmospheric control, life support, and physiological systems. These systems not only ensure the safety and lives of NEDU sailors performing experimental dives, but ultimately support the combat readiness and mission success of the Fleet sailors who use the equipment tested at NEDU. In FY99 the NEDU was realigned from Production Support Facilities (BLI 1415).</p> |                                                            |                      |

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| <b>BUDGET ITEM JUSTIFICATION SHEET<br/>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     | DATE:<br><b>February 2000</b> |
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |                               |
| <p>HY183 Emergency Evacuation Hyperbaric Stretcher: This system is a portable and collapsible pressurized stretcher that provides a means of transporting diving personnel suffering from decompression sickness or gas embolism to a recompression treatment chamber. The EEHS provides a ready means of quickly recompressing the casualty at the dive site and transporting the casualty under pressure to a recompression chamber or a land based/hospital hyperbaric facility. Required I/O is 52.</p> <p>SALVAGE: (N869)<br/>This request provides program support for the procurement of critical salvage and underwater ship repair items. Public Law 513 (80th Congress, 10 USC 7361 ET SEQ) authorizes the Secretary of the Navy to provide, by contractor or otherwise, necessary salvage and diving equipment, services and facilities for public, private, and military vessels upon such terms and conditions as he may, in his discretion, determine to be in the best interest of the United States.</p> <p>The U. S. Navy Supervisor of Salvage maintains the Emergency Ship Salvage Material (ESSM) System which consists of a network of bases that maintain, control, and issue material for salvage operations, underwater ship husbandry operations, pollution abatement operations, ocean engineering projects, special authorized projects, and equipment for use in national emergencies. The major bases are located in Williamsburg, Virginia; Stockton, California; Singapore; and Livorno, Italy. Satellite bases having smaller allowances are maintained at Sasebo, Japan; Pearl Harbor, Hawaii; and Bahrain. This system provides the Nation's first line of defense for major pollution abatement operations and the Navy's second line of defense for salvage operations. The equipment's to be procured are:</p> <p>HY016 Deck Capstans: The portable hydraulic capstan system consists of one portable hydraulic driven capstan, one portable hydraulic power unit, and all necessary controls and hydraulic hoses. Required I/O is 39.</p> <p>HY043 Oceanographic Umbilical: The Navy maintains the ORION, DEEP DRONE, CURV III, MAGNUM and SWISS remotely operated vehicles for use in hazardous search salvage, inspection, and pollution operations. These vehicles are remotely controlled through umbilicals which transmit all command and control functions to the vehicle as well as transmitting all sensor data from the vehicle to the ship. They are procured in different lengths for use in varying ocean depths down to 20,000 feet. Required I/O is 10.</p> <p>HY050 Synthetic Line: This line is used for lifting, mooring, towing, rigging, and in conjunction with the remotely operated vehicles at the salvage site. Required I/O is 200.</p> <p>HY062 Sonar System: These sonars are used on the ORION, DEEP DRONE, CURV III, MAGNUM and SWISS remotely operated vehicles to locate items lost on the sea floor, aircraft debris fields, sunken hull sections, and submerged obstacles. Total I/O is 10.</p> |                                                                                     |                               |

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| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            | DATE:                |
| <b>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            | <b>February 2000</b> |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P-1 ITEM NOMENCLATURE                                      |                      |
| <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |                      |
| <p>HY116 Portable Submersible Pumps: The hydraulic submersible salvage pump system is designed for dewatering ships and craft. The pumping system is packaged in containers for ease of shipment and handling at the casualty site. The pump with attached hoses can be lowered into flooded spaces or can be handcarried into confined spaces. The system includes a hydraulic power unit, hose, and all ancillary equipment. Required I/O is 53.</p> <p>HY131 ROV Handling Systems: These systems are used to launch and recover remotely operated vehicles and to tend the deployed cable, compensate for ship motion, monitor cable tension, and store cable. Required I/O is 10 (5 operational and 5 spares).</p> <p>HY141 U/W Ship Husbandry Inspection System: This hardware will permit rapid transmission of underwater inspection results to topside engineers for damage assessment. It will preclude the necessity of recording and forwarding video tapes for subsequent evaluation and allow engineers to direct inspections from remote sites. Required I/O is 5.</p> <p>HY145 Cofferdam System: This system will contain a variety of cofferdams necessary to accomplish underwater repair tasks to hull plating, shafts, stern tubes and sea chests on several ship classes. The cofferdams are engineered structural habitats which provide a safe underwater dry environment for divers to work and require very little maintenance. Required I/O is 15.</p> <p>HY146 Propeller Repair Kit: These kits will contain the tools necessary to repair minor propeller damage underwater. By accomplishing these repairs in-place, propeller removal and replacement can be avoided thereby saving maintenance funds and returning ships to service faster. Required I/O is 8.</p> <p>HY147 ROV Telemetry System: The ROV Telemetry System is the communication link between the surface controller and the vehicle. Required I/O is 8 (4 operational plus 4 spares).</p> <p>HY151 Closed Cycle Hull Cleaning System: This equipment will eliminate discharge of hull cleaning by-products into harbors. Current cleaning equipment cannot recover any of the discharge. This equipment will be required for environmental compliance. Required I/O is 10.</p> <p>HY153 Tensiometer Systems: Tensiometers are used to measure the tension exerted on a beach gear ground leg or heavy lift system. One system consists of two load sensing units with associated rigging and read-out meters. Required I/O is 36.</p> <p>HY155 15 KW Generators: These generators are used to fill the power gap between the existing 5 KW and 30 KW generators. They are used aboard a ship and shore-side to provide general purpose electrical power during salvage and debatching operations. The generators are a system consisting of a diesel powered, portable generating unit, a power distribution panel, and associated distribution apparatus. Required I/O is 36.</p> |                                                            |                      |

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| <b>BUDGET ITEM JUSTIFICATION SHEET<br/>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            | DATE:<br><b>February 2000</b> |
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| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P-1 ITEM NOMENCLATURE                                      |                               |
| <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |                               |
| <p>HY156 Salvage Vans: These vans are modified ISO shipping containers equipped to store and ship portable salvage equipment to a vessel of opportunity in times of National emergency and functions as a support van on station. Each van is complete with a humidity controlling device for prolonging equipment life during storage. The system includes all necessary rigging and handling equipment. Required I/O is 50.</p> <p>HY159 Sonar Dome Repair Kits: Provides special underwater tools necessary to repair rubber and glass reinforced plastic (GRP) sonar domes. Repairs include both non-structural (correcting self-noise problems) operations and structural (correcting ruptured or cracked domes) operations. Kits also contain tools necessary to replace GRP domes in the event repair is not possible. I/O is 4.</p> <p>HY160 Underwater Ship Husbandry Gas Free Equipment: Kits provide environmental monitoring equipment to provide diving supervisors with real time data on air quality within a confined space such as a cofferdam or ballast tank. Monitoring the air allows divers to remove their helmets once inside the area and thereby increase productivity and reduce fatigue. I/O is 16.</p> <p>HY161 Underwater Shaft and Bearing Repair Equipment: Provides tools necessary to repair propulsion shafts and bearings underwater thereby eliminating the requirement for drydocking. Required I/O is 3.</p> <p>HY162 Trash Pump System: The Trash Pump System consists of one portable hydraulically driven, submersible pump, hydraulic power unit and all necessary hydraulic and product delivery hoses. The pumps are capable of passing solid objects without damage to the system. Required I/O is 36.</p> <p>HY163 Towing Load Cells: Towing load cells are systems designed to monitor towline tensions during open ocean towing evolutions. They include tension measuring devices, telemetry systems, power supplies and all software and hardware required to maintain and operate them. Required I/O is 15.</p> <p>HY164 Flyaway FADOSS System: This system consists of lightweight motion compensators, winches and rigging jewelry for lifting heavy objects off the sea floor. All of the components are designed to be flown to the salvage site and loaded aboard ships of opportunity. Required I/O is 14.</p> <p>HY165 Underwater Welding Equipment: Improved welding equipment necessary to permit permanent underwater weld repairs to ship and submarine hull structure. Machines incorporated new technology to stabilize arc voltage and reduce equipment maintenance. I/O is 12.</p> <p>HY166 ROV Tool Package: This tool package is utilized by remotely operated vehicles to accomplish work on objects on the sea floor and in the water column. These systems consist of dual manipulators, control systems, video inspection systems, range measuring systems, power supplies, hydraulic power units, an ancillary end effectors. I/O is 20.</p> |                                                            |                               |

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| <b>BUDGET ITEM JUSTIFICATION SHEET<br/>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              | DATE:<br><b>February 2000</b> |
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| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P-1 ITEM NOMENCLATURE                                        |                               |
| <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Divining and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |                               |
| <p>HY167 Flyaway Weld Van: This van is a portable workstation outfitted to support underwater welding operations. It is designed to be self-supporting at remote worksites and is sized to allow for air transportation. This transportation scheme is necessary to support worldwide emergent repair operations cost effectively. I/O is 3.</p> <p>HY168 SHT Replacement Kits: Submarine Special Hull Treatment Tiles sustain damage below the waterline which cannot currently be repaired without drydocking. Kits will provide tools to remove damaged tiles, prepare the steel hull surface and replace tiles. In-water repairs will be equivalent to drydock repairs. I/O is 5.</p> <p>HY169 UWSH Power Tools: These tools will replace the hydraulic tool sets designed and issued to Fleet divers in the 1970's with improved technology. This technology improvement will provide tools which are more environmentally compatible, offer greater power, lighter weight and reduced maintenance. I/O is 15.</p> <p>HY172 Lightweight Beach Gear: Lightweight Beach Gear is a lightweight and highly portable system for exerting a retraction force on stranded vessels. The system shall include a ground leg consisting of anchors, stoppers, and interconnection lines; a purchase subsystem consisting of a block and tackle set, turning blocks, and purchase line; a modular winch; and all necessary interconnecting lines and fittings. Total I/O is 106.</p> <p>HY173 Digital Still Cameras: Underwater still cameras for divers use during hull damage inspections. Digital cameras will enable divers to quickly view images to ensure they are correct before suspending diving operations. Repair activities will then be given images which can be forwarded electronically for review by cognizant technical authorities. I/O is 20.</p> <p>HY174 Seachest Inspection Systems: A non-destructive, non-intrusive inspection system which is inserted into a sea chest to measure and record the material condition. This inspection information is used to support condition based maintenance decisions regarding the necessity to replace worn, deteriorated or damaged seachest piping systems. Total I/O required is 2.</p> <p>HY175 Closed Cycle Blasting Equipment: System blasts underwater hull surfaces in preparation for underwater painting. Blast equipment collects grit and paint to comply with environmental standards. Grit blast surface preparation is necessary to obtain adequate adhesion of underwater applied paints used to arrest corrosion. I/O is 6.</p> <p>HY180 Equipment Storage System: System will protect maintenance equipment from the environment. This system will provide a more cost effective alternative to current warehouse storage. I/O is 1.</p> <p>HY181 MHC Propeller Replacement Kit: Provide all tools necessary to replace damaged MHC cycloidal propellers. These are the only USN cycloidal propellers, therefore existing propeller replacement hardware is ineffective. I/O is 2.</p> <p>HY182 Propulsion Strut Repair Equipment: Provides special tooling necessary to repair DD 963 Class struts which experience accelerated corrosion-erosion damage. Equipment will make waterborne repairs cost effective. I/O is 1.</p> |                                                              |                               |

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| <b>BUDGET ITEM JUSTIFICATION SHEET<br/>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     | DATE:<br><b>February 2000</b> |
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY</b> |                               |
| <p>HY184 Salvage Support Systems: These systems are used to support Fleet salvage operations and include equipment required for command and control, communications, supply, repair, rigging, and personnel support. Each system includes the storage and shipping containers necessary to forward deploy the equipment to a salvage site. Required I/O is 30.</p> <p>HY185 Precise Navigation Systems: These systems are used to position and track search platforms, survey vehicles and ROV systems. I/O is 12.</p> <p><b>DIVING AND SALVAGE RESERVE EQUIPMENT - (N869)</b><br/>       In accordance with the Surface Warfare Plan of 26 July 1986 as amplified by CNO ltr 37/7U388746 of 29 Jun 1987, we are restructuring our Naval Reserve Procurement Plan to include outfitting with updated systems fully compatible with those used by the active forces. Dive system compatibility is imperative to ensure safety and readiness. The equipment's to be procured are:</p> <p>HY105 Lightweight Dive System (LWDS):</p> <p>a. This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working divers and a standby diver to 60 feet of seawater (fsw) for a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. Required I/O is 11.</p> <p>DLSS:</p> <ol style="list-style-type: none"> <li>1. Compressor Package - Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.</li> <li>2. Composite Flasks - Racks of composite HP cylinders; with manifolds and interconnecting hoses.</li> <li>3. Volume Tank - Assembly mounted on separate frame; with interconnecting hoses.</li> <li>4. Control Console - Suitcase size with air supply and pneumofathometer control.</li> </ol> <p>b. 3000 PSI Flask Replacement: This item replaces the composite flasks used in the LWDS which have reached their 15 year service life. Required I/O is 132.</p> <p>HY178 H.P. Air Compressors: This item provides reserve commands with indigenous H.P. air compressors for use with their Lightweight Dive Systems procured in HY105. Required I/O is 11.</p> <p><b>EQUIPMENT INSTALLATION (FMP) - (N869)</b><br/>       Funding is for the installation of equipment including Fleet Modernization Program installation, installation of training equipment, and installation of equipment in other shore activities.</p> |                                                                                     |                               |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                                                                                                                                               |         |                                    |          |           | Weapon System |                                                                                      |              |            |          |              | DATE:<br>February 2000 |          |              |            |
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| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                                                                                                                                               |         |                                    |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY |              |            |          |              |                        |          |              |            |
| COST CODE                                                                                | ELEMENT OF COST                                                                                                                                               | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |               |                                                                                      |              |            |          |              |                        |          |              |            |
|                                                                                          |                                                                                                                                                               |         | Prior Years                        | FY 1998  |           |               | FY 1999                                                                              |              |            | FY 2000  |              |                        | FY 2001  |              |            |
|                                                                                          |                                                                                                                                                               |         | Total Cost                         | Quantity | Unit Cost | Total Cost    | Quantity                                                                             | Unit Cost    | Total Cost | Quantity | Unit Cost    | Total Cost             | Quantity | Unit Cost    | Total Cost |
| HY106                                                                                    | DIVING EQUIPMENT -- N873<br>Lightweight Dive Systems<br>a. Systems<br>b. 3000 PSI Flask Replacements<br>c. Engineering Change Proposals                       | A       |                                    |          |           |               |                                                                                      |              |            |          |              |                        | 25       | 3            | 74         |
| HY107                                                                                    | Portable Recompression Chambers<br>a. Portable Chambers<br>b. Engineering Change Proposals<br>c. Environmental Upgrade Packages                               | A       |                                    |          |           |               |                                                                                      |              | 2          | 219      | 438          | 2                      | 374      | 748          |            |
| HY123                                                                                    | Flyaway Dive System III<br>a. High Pressure Air Systems<br>b. Engineering Change Proposals<br>c. Mixed Gas Systems<br>d. Control Console/Volume Tank Assembly | A       |                                    |          |           | 3             | 221                                                                                  | 663          |            |          |              | 1                      | 1,200    | 1,200        |            |
| HY132                                                                                    | Recompression Chambers<br>a. Portable/Containerized Chambers<br>b. Fixed Chambers<br>c. Fixed Chamber Support Equipment<br>d. Engineering Change Proposals    | A       |                                    |          |           | 2             | 471                                                                                  | 942          | 1          | 515      | 515          | 1                      | 494      | 494          |            |
|                                                                                          |                                                                                                                                                               |         |                                    |          |           |               |                                                                                      |              | 1          | 706      | 706          | 1                      | 741      | 741          |            |
| HY179                                                                                    | Navy Experimental Diving Unit                                                                                                                                 | A       |                                    |          |           |               |                                                                                      | 263          |            |          |              |                        | 285      | 285          |            |
| HY183                                                                                    | Emergency Evacuation Hyperbaric Stretche                                                                                                                      | A       |                                    |          |           |               |                                                                                      |              | 3          | 40       | 120          | 3                      | 41.7     | 125          |            |
|                                                                                          | <b>Subtotal</b>                                                                                                                                               |         |                                    |          |           |               |                                                                                      | <b>2,383</b> |            |          | <b>3,243</b> |                        |          | <b>3,308</b> |            |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                          |         |                                    |          |           | Weapon System |                                                                                      |           |            |          |              | DATE:<br>February 2000 |          |           |              |              |
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| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                          |         |                                    |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY |           |            |          |              |                        |          |           |              |              |
| COST CODE                                                                                | ELEMENT OF COST                          | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
|                                                                                          |                                          |         | Prior Years                        | FY 1998  |           |               | FY 1999                                                                              |           |            | FY 2000  |              |                        | FY 2001  |           |              |              |
|                                                                                          |                                          |         | Total Cost                         | Quantity | Unit Cost | Total Cost    | Quantity                                                                             | Unit Cost | Total Cost | Quantity | Unit Cost    | Total Cost             | Quantity | Unit Cost | Total Cost   |              |
|                                                                                          | SALVAGE EQUIPMENT -- N869                |         |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY016                                                                                    | Deck Capstans                            | A       |                                    |          |           |               |                                                                                      |           | 4          | 37.5     | 150          | 3                      | 38.7     | 116       |              |              |
| HY050                                                                                    | Synthetic Lines                          | A       |                                    |          |           |               |                                                                                      |           |            |          |              | 2                      | 134.5    | 269       |              |              |
| HY062                                                                                    | Sonar Systems                            | A       |                                    |          |           | 2             | 251.5                                                                                | 503       |            |          |              |                        |          |           |              |              |
| HY116                                                                                    | Portable Submersible Pumps               | A       |                                    |          |           |               |                                                                                      |           | 6          | 44       | 264          | 5                      | 45.4     | 227       |              |              |
| HY131                                                                                    | ROV Handling Systems                     | A       |                                    |          |           |               |                                                                                      |           | 1          | 624      | 624          |                        |          |           |              |              |
| HY145                                                                                    | Cofferdam Systems                        | A       |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY146                                                                                    | Propeller Grooming Kits                  | A       |                                    |          |           |               |                                                                                      |           | 1          | 92       | 92           |                        |          |           |              |              |
| HY147                                                                                    | ROV Telemetry Systems                    | A       |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY151                                                                                    | Closed Cycle Hull Cleaning Systems       | A       |                                    |          |           | 2             | 484.5                                                                                | 969       |            |          |              |                        |          |           |              |              |
| HY153                                                                                    | Tensiometer Systems                      | A       |                                    |          |           |               |                                                                                      |           | 11         | 22       | 242          |                        |          |           |              |              |
| HY155                                                                                    | 15 KW Generators                         | A       |                                    |          |           |               |                                                                                      |           | 10         | 21.7     | 217          | 5                      | 23.4     | 117       |              |              |
| HY156                                                                                    | Salvage Vans                             | A       |                                    |          |           |               |                                                                                      |           | 7          | 27       | 189          |                        |          |           |              |              |
| HY159                                                                                    | Sonar Dome Repair Kits                   | A       |                                    |          |           |               |                                                                                      |           |            |          |              | 2                      | 112.5    | 225       |              |              |
| HY160                                                                                    | UWSH Gas Free Equipment                  | A       |                                    |          |           |               |                                                                                      |           | 3          | 53       | 159          |                        |          |           |              |              |
| HY161                                                                                    | Underwater Shaft & Bearing Repair Equipm | A       |                                    |          |           |               |                                                                                      |           | 1          | 314      | 314          |                        |          |           |              |              |
| HY162                                                                                    | Trash Pump Systems                       | A       |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY165                                                                                    | Underwater Welding Equipment             | A       |                                    |          |           |               |                                                                                      |           | 4          | 25       | 100          |                        |          |           |              |              |
| HY166                                                                                    | ROV Tool Packages                        | A       |                                    |          |           |               |                                                                                      |           |            |          |              | 1                      | 555      | 555       |              |              |
| HY167                                                                                    | Flyaway Weld Vans                        | A       |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY168                                                                                    | SHT Replacement Kits                     | A       |                                    |          |           |               |                                                                                      |           | 1          | 134      | 134          |                        |          |           |              |              |
| HY169                                                                                    | UWSH Power Tools                         | A       |                                    |          |           |               |                                                                                      |           |            |          |              | 10                     | 71.4     | 714       |              |              |
| HY172                                                                                    | Lightweight Beach Gear                   | A       |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY180                                                                                    | Equipment Storage Systems                | A       |                                    |          |           |               |                                                                                      |           | 1          | 400      | 400          |                        |          |           |              |              |
| HY181                                                                                    | MHC Propeller Replacement Kits           | A       |                                    |          |           |               |                                                                                      |           | 1          | 400      | 400          |                        |          |           |              |              |
| HY182                                                                                    | Propulsion Strut Repair Equipment        | A       |                                    |          |           |               |                                                                                      |           |            |          |              |                        |          |           |              |              |
| HY185                                                                                    | Precise Navigation Systems               | A       |                                    |          |           |               |                                                                                      |           | 4          | 92.5     | 370          |                        |          |           |              |              |
|                                                                                          | <b>Subtotal</b>                          |         |                                    |          |           |               |                                                                                      |           |            |          | <b>2,988</b> |                        |          |           | <b>2,139</b> | <b>2,223</b> |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                                                                                       |         |                                    | Weapon System |                                                                                      |            |          |           |            |          |           | DATE:<br>February 2000 |          |           |            |     |       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------------------------------------------------------------|------------|----------|-----------|------------|----------|-----------|------------------------|----------|-----------|------------|-----|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                                                                                       |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY |            |          |           |            |          |           |                        |          |           |            |     |       |
| COST CODE                                                                                | ELEMENT OF COST                                                                                       | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                                      |            |          |           |            |          |           |                        |          |           |            |     |       |
|                                                                                          |                                                                                                       |         | Prior Years                        | FY 1998       |                                                                                      |            | FY 1999  |           |            | FY 2000  |           |                        | FY 2001  |           |            |     |       |
|                                                                                          |                                                                                                       |         | Total Cost                         | Quantity      | Unit Cost                                                                            | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost             | Quantity | Unit Cost | Total Cost |     |       |
| HY105                                                                                    | RESERVE EQUIPMENT -- N869<br>Lightweight Dive Systems<br>a. Systems<br>b. 3000 PSI Flask Replacements | A       |                                    |               |                                                                                      |            |          |           |            |          |           |                        |          |           |            |     |       |
| HY178                                                                                    | H.P. Air Compressors                                                                                  | A       |                                    |               |                                                                                      |            | 3        | 86.7      | 260        |          | 1         | 108                    | 108      |           | 33         | 3.6 | 118   |
| HYINS                                                                                    | EQUIPMENT INSTALLATION (FMP) -- N869<br>Installation/Alteration (FMP)                                 | A       |                                    |               |                                                                                      |            |          |           | 0          |          |           |                        | 0        |           |            |     | 0     |
|                                                                                          | <b>Subtotal</b>                                                                                       |         |                                    |               |                                                                                      |            |          |           | 260        |          |           |                        | 108      |           |            |     | 118   |
|                                                                                          |                                                                                                       |         |                                    |               |                                                                                      |            |          |           | 0          |          |           |                        | 5,631    |           |            |     | 5,490 |
|                                                                                          |                                                                                                       |         |                                    |               |                                                                                      |            |          |           |            |          |           |                        |          |           |            |     | 5,649 |

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| WEAPONS SYSTEM COST ANALYSIS  |                                                                                                                                                             |          |                                                                                                                                      |              |          |           | Weapon System                                       |          |           |              |          |           | DATE: February 2000 |          |       |          |      |  |  |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|-----------|-----------------------------------------------------|----------|-----------|--------------|----------|-----------|---------------------|----------|-------|----------|------|--|--|
| P-5                           |                                                                                                                                                             |          |                                                                                                                                      |              |          |           | P-1 ITEM NOMENCLATURE/SUBHEAD                       |          |           |              |          |           |                     |          |       |          |      |  |  |
| APPROPRIATION/BUDGET ACTIVITY |                                                                                                                                                             |          |                                                                                                                                      |              |          |           | ID Code                                             |          |           |              |          |           |                     |          |       |          |      |  |  |
| Other Procurement, Navy       |                                                                                                                                                             |          |                                                                                                                                      |              |          |           | P-1 ITEM NOMENCLATURE/SUBHEAD                       |          |           |              |          |           |                     |          |       |          |      |  |  |
| BA-1 Ships Support Equipment  |                                                                                                                                                             |          |                                                                                                                                      |              |          |           | Diving and Salvage Equipment BLI: 113000 SBHD: 81HY |          |           |              |          |           |                     |          |       |          |      |  |  |
| COST CODE                     | ELEMENT OF COST                                                                                                                                             | FY 2002  |                                                                                                                                      | FY 2003      |          |           | FY 2004                                             |          |           | FY 2005      |          |           | To Complete         |          | Total |          |      |  |  |
|                               |                                                                                                                                                             | Quantity | Unit Cost                                                                                                                            | Total Cost   | Quantity | Unit Cost | Total Cost                                          | Quantity | Unit Cost | Total Cost   | Quantity | Unit Cost | Total Cost          | Quantity | Cost  | Quantity | Cost |  |  |
|                               |                                                                                                                                                             | HY106    | DIVING EQUIPMENT -- N873<br>Lightweight Dive System<br>a. System<br>b. 3000 PSI Flask Replacement<br>c. Engineering Change Proposals | 50           | 3        | 148       | 205                                                 | 3.3      | 668       | 100          | 3.4      | 336       | 105                 | 3.5      | 370   |          |      |  |  |
| HY107                         | Portable Recompression Chamber<br>a. Portable Chamber<br>b. Engineering Change Proposals<br>c. Environmental Upgrade Package                                | 10       | 29.7                                                                                                                                 | 297          | 4        | 31.3      | 125                                                 |          |           |              |          |           |                     |          |       |          |      |  |  |
| HY123                         | Flyaway Dive System III<br>a. High Pressure Air System<br>b. Engineering Change Proposals<br>c. Mixed Gas System<br>d. Control Console/Volume Tank Assembly | 2        | 247.5                                                                                                                                | 495          | 2        | 257       | 514                                                 |          |           | 158          |          |           | 257                 |          |       |          |      |  |  |
| HY132                         | Recompression Chamber<br>a. Portable/Containerized Chamber<br>b. Fixed Chamber<br>c. Fixed Chamber Support Equipment<br>d. Engineering Change Proposals     | 1        | 520                                                                                                                                  | 520          |          |           |                                                     | 1        | 533       | 533          | 2        | 568       | 1,136               |          |       |          |      |  |  |
| HY176                         | Oil Free Compressors                                                                                                                                        |          |                                                                                                                                      |              | 13       | 82.3      | 1,070                                               | 10       | 82.6      | 826          | 9        | 83.8      | 754                 |          |       |          |      |  |  |
| HY177                         | Air Purification Units                                                                                                                                      | 15       | 15.9                                                                                                                                 | 238          | 35       | 16        | 561                                                 |          |           |              |          |           |                     |          |       |          |      |  |  |
| HY179                         | Navy Experimental Diving Unit                                                                                                                               |          |                                                                                                                                      | 297          |          |           | 297                                                 |          |           | 296          |          |           | 296                 |          |       |          |      |  |  |
| HY183                         | Emergency Evacuation Hyperbaric Stretcher                                                                                                                   | 1        | 43                                                                                                                                   | 43           | 3        | 42.3      | 127                                                 | 12       | 44.5      | 534          | 15       | 46.4      | 696                 |          |       |          |      |  |  |
|                               | <b>Subtotal</b>                                                                                                                                             |          |                                                                                                                                      | <b>3,379</b> |          |           | <b>3,362</b>                                        |          |           | <b>3,434</b> |          |           | <b>3,509</b>        |          |       |          |      |  |  |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                         |          |           | Weapon System |          |                                                                                      |              |          |           | DATE:<br>February 2000 |          |           |            |             |              |          |      |
|------------------------------------------------------------------------------------------|-----------------------------------------|----------|-----------|---------------|----------|--------------------------------------------------------------------------------------|--------------|----------|-----------|------------------------|----------|-----------|------------|-------------|--------------|----------|------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                         |          |           | ID Code       |          | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY |              |          |           |                        |          |           |            |             |              |          |      |
| COST CODE                                                                                | ELEMENT OF COST                         | FY 2002  |           |               | FY 2003  |                                                                                      |              | FY 2004  |           |                        | FY 2005  |           |            | To Complete |              | Total    |      |
|                                                                                          |                                         | Quantity | Unit Cost | Total Cost    | Quantity | Unit Cost                                                                            | Total Cost   | Quantity | Unit Cost | Total Cost             | Quantity | Unit Cost | Total Cost | Quantity    | Cost         | Quantity | Cost |
|                                                                                          | SALVAGE EQUIPMENT -- N869               |          |           |               |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
| HY043                                                                                    | Oceanographic Umbilical                 |          |           |               |          |                                                                                      |              | 1        | 1,177     | 1,177                  |          |           | 1          | 1,155       | 1,155        |          |      |
| HY050                                                                                    | Synthetic Line                          | 1        | 97        | 97            |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
| HY062                                                                                    | Sonar System                            |          |           |               | 4        | 359                                                                                  | 1,436        |          |           |                        |          |           |            |             |              |          |      |
| HY141                                                                                    | UWSH Inspection System                  |          |           |               |          |                                                                                      |              |          |           |                        |          |           | 1          | 163         | 163          |          |      |
| HY145                                                                                    | Cofferdam System                        |          |           |               |          |                                                                                      |              | 2        | 55.5      | 111                    |          |           | 4          | 57.3        | 229          |          |      |
| HY146                                                                                    | Propeller Repair Kit                    |          |           |               |          |                                                                                      |              | 1        | 101       | 101                    |          |           | 1          | 102         | 102          |          |      |
| HY151                                                                                    | Closed Cycle Hull Cleaning System       |          |           |               |          |                                                                                      |              | 1        | 589       | 589                    |          |           | 1          | 601         | 601          |          |      |
| HY161                                                                                    | Underwater Shaft & Bearing Repair Equip |          |           |               |          |                                                                                      |              | 1        | 337       | 337                    |          |           |            |             |              |          |      |
| HY162                                                                                    | Trash Pump Systems                      | 4        | 19.8      | 79            |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
| HY163                                                                                    | Towing Load Cells                       | 2        | 14        | 28            |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
| HY164                                                                                    | Flyaway FADOSS System                   | 1        | 920       | 920           |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
| HY165                                                                                    | Underwater Welding Equipment            |          |           |               |          |                                                                                      |              |          |           |                        |          |           | 4          | 26.8        | 107          |          |      |
| HY172                                                                                    | Lightweight Beach Gear                  | 2        | 66        | 132           | 3        | 66                                                                                   | 198          |          |           |                        |          |           |            |             |              |          |      |
| HY173                                                                                    | Digital Still Cameras                   | 10       | 33        | 326           |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
| HY174                                                                                    | Seachest Inspection System              |          |           |               | 1        | 281                                                                                  | 281          |          |           |                        |          |           |            |             |              |          |      |
| HY175                                                                                    | Closed Cycle Blasting Equipment         |          |           |               | 4        | 89.8                                                                                 | 359          |          |           |                        |          |           |            |             |              |          |      |
| HY184                                                                                    | Salvage Support Systems                 | 7        | 89.6      | 627           |          |                                                                                      |              |          |           |                        |          |           |            |             |              |          |      |
|                                                                                          | <b>Subtotal</b>                         |          |           | <b>2,209</b>  |          |                                                                                      | <b>2,274</b> |          |           | <b>2,315</b>           |          |           |            |             | <b>2,357</b> |          |      |

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CLASSIFICATION: **UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                      |                                                                                                       |          |           | Weapon System |                                                                                      |           |              |          |           |              |          | DATE:<br>February 2000 |              |             |      |          |      |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------|-----------|---------------|--------------------------------------------------------------------------------------|-----------|--------------|----------|-----------|--------------|----------|------------------------|--------------|-------------|------|----------|------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA-1 Ships Support Equipment |                                                                                                       |          |           | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>Diving and Salvage Equipment BLI: 113000 SBHD: 81HY |           |              |          |           |              |          |                        |              |             |      |          |      |
| COST CODE                                                                                | ELEMENT OF COST                                                                                       | FY 2002  |           |               | FY 2003                                                                              |           |              | FY 2004  |           |              | FY 2005  |                        |              | To Complete |      | Total    |      |
|                                                                                          |                                                                                                       | Quantity | Unit Cost | Total Cost    | Quantity                                                                             | Unit Cost | Total Cost   | Quantity | Unit Cost | Total Cost   | Quantity | Unit Cost              | Total Cost   | Quantity    | Cost | Quantity | Cost |
| HY105                                                                                    | RESERVE EQUIPMENT -- N869<br>Lightweight Dive Systems<br>a. Systems<br>b. 3000 PSI Flask Replacements | 33       | 3.6       | 118           | 33                                                                                   | 3.7       | 123          | 33       | 3.8       | 125          |          |                        |              |             |      |          |      |
| HY178                                                                                    | H.P. Air Compressors                                                                                  |          |           |               |                                                                                      |           |              |          |           |              | 1        | 127                    | 127          |             |      |          |      |
| HYINS                                                                                    | EQUIPMENT INSTALLATION (FMP) -- N869<br>Installation/Alteration (FMP)                                 |          |           | 0             |                                                                                      |           | 0            |          |           | 0            |          |                        | 0            |             |      |          |      |
|                                                                                          | <b>Subtotal</b>                                                                                       |          |           | <b>118</b>    |                                                                                      |           | <b>123</b>   |          |           | <b>125</b>   |          |                        | <b>127</b>   |             |      |          |      |
|                                                                                          |                                                                                                       |          |           | <b>5,706</b>  |                                                                                      |           | <b>5,759</b> |          |           | <b>5,874</b> |          |                        | <b>5,993</b> |             |      |          |      |

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                               |                             |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------------------------------------------|-----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000</b> |                             |               |                                 | SUBHEAD<br><b>81HY</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                | CONTRACTOR<br>AND LOCATION  | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (99)                                                                                    |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |
| DIVING EQUIPMENT -- N873                                                                            |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |
| HY123 Flyaway Dive Sys III                                                                          |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |
| a. HP Air System                                                                                    | 3        | 221                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | GPC - Norfolk, VA           | 02/99         | 03/00                           | YES                       |                                |
| HY132 Recompression Chamber                                                                         |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |
| a. Port/Container Chmbr                                                                             | 2        | 471                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | GPC - Norfolk, VA           | 02/99         | 05/00                           | YES                       |                                |
| b. Fixed Chamber                                                                                    | 1        | 515                   | Washington, DC     | 02/99             | F/FP                                                                        | NAVFAC                      | 03/00         | 02/01                           | YES                       |                                |
| SALVAGE EQUIPMENT -- N869                                                                           |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |
| HY062 Sonar System                                                                                  | 2        | 251.5                 | Arlington, VA      | 06/30/95 (OPTION) | C/CPAF                                                                      | Oceaneering--Upper Marl. MD | 02/99         | 08/00                           | YES                       |                                |
| HY131 ROV Handling Sys                                                                              | 1        | 624                   | Arlington, VA      | 06/30/95 (OPTION) | C/CPAF                                                                      | Oceaneering--Upper Marl. MD | 02/99         | 09/00                           | YES                       |                                |
| HY146 Propeller Repair Kit                                                                          | 1        | 92                    | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | GPC - Norfolk, VA           | 02/99         | 05/00                           | YES                       |                                |
| HY151 Clsd Cycle Hull Clean                                                                         | 2        | 484.5                 | Arlington, VA      | 06/30/95 (OPTION) | C/CPAF                                                                      | Oceaneering--Upper Marl. MD | 02/99         | 03/00                           | YES                       |                                |
| HY180 Equip Storage Sys                                                                             | 1        | 400                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | GPC - Norfolk, VA           | 02/99         | 12/99                           | YES                       |                                |
| HY181 MHC Prop Replace Kit                                                                          | 1        | 400                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | GPC - Norfolk, VA           | 02/99         | 03/00                           | YES                       |                                |
| RESERVE EQUIPMENT -- N869                                                                           |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |
| HY178 HP Air Compressor                                                                             | 3        | 86.7                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | GPC - Norfolk, VA           | 02/99         | 11/99                           | YES                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                             |                             |               |                                 |                           |                                |

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                               |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000</b> |                            |               |                                 | SUBHEAD<br><b>81HY</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (00)                                                                                    |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| DIVING EQUIPMENT – N873                                                                             |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| HY107 Portable Recomp Chamber                                                                       |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| a. Portable Chamber                                                                                 | 2        | 219                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 02/01                           | YES                       |                                |
| HY123 Flyaway Dive Sys III                                                                          |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| c. Mixed Gas System                                                                                 | 1        | 1200                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 02/01                           | YES                       |                                |
| HY132 Recompression Chamber                                                                         |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| b. Fixed Chamber                                                                                    | 1        | 494                   | Washington, DC     | 02/00             | F/FP                                                                        | UNKNOWN                    | 04/00         | 03/01                           | YES                       |                                |
| c. Fixed Chmbr Spt Equip                                                                            | 1        | 706                   | Washington, DC     | 02/00             | F/FP                                                                        | UNKNOWN                    | 04/00         | 03/01                           | YES                       |                                |
| HY183 Emrg Evac Hyp Strch                                                                           |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
|                                                                                                     | 3        | 40                    | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 09/00                           | YES                       |                                |
| SALVAGE EQUIPMENT – N869                                                                            |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| HY016 Deck Capstans                                                                                 | 4        | 37.5                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 04/01                           | NO                        | 10/99                          |
| HY116 Port Submrs. Pumps                                                                            | 6        | 44                    | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 06/01                           | YES                       |                                |
| HY153 Tensiometer Systems                                                                           | 11       | 22                    | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 12/00                           | YES                       |                                |
| HY155 15KW Generators                                                                               | 10       | 21.7                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 04/01                           | NO                        | 10/99                          |
| HY156 Salvage Vans                                                                                  | 7        | 27                    | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 06/01                           | NO                        | 10/99                          |
| HY160 UWSH Gas Free Eqp                                                                             | 3        | 53                    | Arlington, VA      | 10/99             | C/CPAF                                                                      | UNKNOWN                    | 03/00         | 03/01                           | YES                       |                                |
| HY161 UW Shaft/Bearing Eqp                                                                          | 1        | 314                   | Arlington, VA      | 10/99             | C/CPAF                                                                      | UNKNOWN                    | 03/00         | 01/01                           | YES                       |                                |
| HY165 UW Welding Equip                                                                              | 4        | 25                    | Arlington, VA      | 10/99             | C/CPAF                                                                      | UNKNOWN                    | 03/00         | 12/00                           | YES                       |                                |
| HY168 SHT Rplcmnt Kits                                                                              | 1        | 134                   | Arlington, VA      | 11/99             | C/CPAF                                                                      | UNKNOWN                    | 04/00         | 10/00                           | YES                       |                                |
| HY185 Prcs Navigation Sys                                                                           | 4        | 92.5                  | Arlington, VA      | 06/30/95 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 02/01                           | YES                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                               |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000</b> |                            |               |                                 | SUBHEAD<br><b>81HY</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (00)                                                                                    |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| RESERVE EQUIPMENT -- N869<br>HY178 HP Air Compressor                                                | 1        | 108                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/00         | 10/00                           | YES                       |                                |
| FISCAL YEAR (01)                                                                                    |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| DIVING EQUIPMENT -- N873<br>HY106 Ltwt Dive System<br>b. 3000 PSI Flask Rplcmnt                     | 25       | 3                     | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 08/01                           | YES                       |                                |
| HY107 Portable Recompr Chamber<br>a. Portable Chamber                                               | 2        | 374                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 02/02                           | YES                       |                                |
| c. Environ Upgrade Pkg                                                                              | 2        | 33.5                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 10/01                           | YES                       |                                |
| DIVING EQUIPMENT -- N873<br>HY123 Flyaway Dive Sys III<br>a. HP Air System                          | 2        | 237.5                 | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 02/02                           | YES                       |                                |
| HY132 Recompression Chamber<br>a. Port/Container Chmbr                                              | 1        | 494                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 04/02                           | YES                       |                                |
| c. Fixed Chmbr Spt Equip                                                                            | 1        | 741                   | Washington, DC     | 02/01             | F/FP                                                                        | UNKNOWN                    | 04/01         | 03/02                           | YES                       |                                |
| HY183 Emrg Evac Hyp Strch                                                                           | 3        | 41.7                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 09/01                           | YES                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |

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CLASSIFICATION:

| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)                                              |          |                       |                    |                   | Weapon System                                                               |                            |               | A. DATE<br><b>February 2000</b> |                           |                                |
|-----------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------|-------------------|-----------------------------------------------------------------------------|----------------------------|---------------|---------------------------------|---------------------------|--------------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY<br><b>Other Procurement, Navy<br/>BA-1 Ships Support Equipment</b> |          |                       |                    |                   | C. P-1 ITEM NOMENCLATURE<br><b>Diving and Salvage Equipment BLI: 113000</b> |                            |               |                                 | SUBHEAD<br><b>81HY</b>    |                                |
| Cost Element/<br>FISCAL YEAR                                                                        | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE                                                | CONTRACTOR<br>AND LOCATION | AWARD<br>DATE | DATE OF<br>FIRST<br>DELIVERY    | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| FISCAL YEAR (01)                                                                                    |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| SALVAGE EQUIPMENT -- N869                                                                           |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| HY016 Deck Capstans                                                                                 | 3        | 38.7                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 10/01                           | NO                        | 10/99                          |
| HY050 Synthetic Line                                                                                | 2        | 134.5                 | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 12/01                           | YES                       |                                |
| HY116 Port Submrs. Pumps                                                                            | 5        | 45.4                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 10/01                           | YES                       |                                |
| HY155 15KW Generators                                                                               | 5        | 23.4                  | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 10/01                           | NO                        | 10/99                          |
| HY159 Sonar Dome Rpr Kits                                                                           | 2        | 112.5                 | Arlington, VA      | 10/00             | C/CPAF                                                                      | UNKNOWN                    | 03/01         | 12/01                           | YES                       |                                |
| HY166 ROV Tool Package                                                                              | 1        | 555                   | Arlington, VA      | 06/30/95 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 02/02                           | YES                       |                                |
| HY169 UWSH Power Tools                                                                              | 10       | 71.4                  | Arlington, VA      | 10/00             | C/CPAF                                                                      | UNKNOWN                    | 03/01         | 12/01                           | YES                       |                                |
| RESERVE EQUIPMENT -- N869                                                                           |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |
| HY105 Ltwt Dive System<br>b. 3000 PSI Flask Rplcmnt                                                 | 33       | 3.6                   | Arlington, VA      | 11/15/93 (OPTION) | C/CPAF                                                                      | UNKNOWN                    | 02/01         | 08/01                           | YES                       |                                |
| D. REMARKS                                                                                          |          |                       |                    |                   |                                                                             |                            |               |                                 |                           |                                |

CLASSIFICATION:

| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                             |                |            |  |         |         |                                                                      |         | DATE:<br>February 2000 |         |         |                |       |
|-----------------------------------------------------------------------------------------------------|----------------|------------|--|---------|---------|----------------------------------------------------------------------|---------|------------------------|---------|---------|----------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>OTHER PROCUREMENT, NAVY<br>BA-1: SHIP SUPPORT EQUIPMENT            |                |            |  |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br>EOD UNDERWATER EQUIPMENT (1140) |         |                        |         |         |                |       |
| Program Element for Code B Items:<br>N/A                                                            |                |            |  |         |         | OTHER RELATED PROGRAM ELEMENTS                                       |         |                        |         |         |                |       |
|                                                                                                     | Prior<br>Years | ID<br>Code |  | FY 1999 | FY 2000 | FY 2001                                                              | FY 2002 | FY 2003                | FY 2004 | FY 2005 | To<br>Complete | Total |
| QUANTITY                                                                                            |                |            |  | N/A     | N/A     | N/A                                                                  | N/A     | N/A                    | N/A     | N/A     | N/A            | 0     |
| EQUIPMENT COST<br>(In Millions)                                                                     | 8.7            |            |  | \$8.1   | \$0.0   | \$0.0                                                                | \$0.0   | \$0.0                  | \$0.0   | \$0.0   | \$0.0          | \$8.1 |
| SPARES COST<br>(In Millions)                                                                        |                |            |  |         |         |                                                                      |         |                        |         |         |                |       |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                           |                |            |  |         |         |                                                                      |         |                        |         |         |                |       |
| Starting with the FY 2000 budget, this program was consolidated into Minesweeping Equipment - 0975. |                |            |  |         |         |                                                                      |         |                        |         |         |                |       |

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| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |              |              |              | DATE: <b>FEBRUARY 2000</b>                                               |              |              |              |             |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|--------------|--------------|--------------------------------------------------------------------------|--------------|--------------|--------------|-------------|---------------|
| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY/BA-1: OTHER SHIPS SUPPORT EQUIPMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |         |              |              |              | P-1 ITEM NOMENCLATURE<br><b>OTHER SHIPS TRAINING EQUIPMENT LI:132000</b> |              |              |              |             |               |
| Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |              |              | Other Related Program Elements                                           |              |              |              |             |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Prior Years | ID Code | FY 1998 | FY 1999      | FY 2000      | FY 2001      | FY 2002                                                                  | FY 2003      | FY 2004      | FY 2005      | To Complete | Total         |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         |         |              |              |              |                                                                          |              |              |              |             |               |
| COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |         | <b>\$1.8</b> | <b>\$3.8</b> | <b>\$3.3</b> | <b>\$14.7</b>                                                            | <b>\$3.4</b> | <b>\$1.9</b> | <b>\$3.5</b> |             | <b>\$32.4</b> |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |         |         |              |              |              |                                                                          |              |              |              |             | <b>\$0.0</b>  |
| <p>The equipment procured under the Other Ships Training Equipment line supports Hull, Mechanical, and Electrical (HM&amp;E) training requirement:</p> <p>(H5265) Surface Sustaining TTE<br/>Funds procure HM&amp;E technical training equipment (TTE) identified by the Chief of Naval Education and Training (CNET) and the Surface Warfare Training Requirements Review (SWTRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.</p> <p>(H5276) Subsurface Sustaining TTE<br/>Funds procure Subsurface HM&amp;E technical training equipment (TTE) , support equipment, simulators/stimulators, and Diving and Salvage Training Center equipment identified by the Type Commander, Chief of Naval Education and Training (CNET) and the Submarine and Integrated Undersea Sonar System (IUSS) Training Requirements Review (SITRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.</p> <p>(H5262) BFTT (GNSS)<br/>Funds will procure and install Generic Navy Stimulators/Simulators (GNSS), as part of the AN/USQ-T46 A(V) Battle Force Tactical Training (BFTT) System, on CVN 74 and CVN 75. The GNSS set for each aircraft carrier provides stimulation for AN/SPS-48, AN/SPS-49, AN/SPS-67, IFF, MK23 TAS and NSSMS(3).</p> |             |         |         |              |              |              |                                                                          |              |              |              |             |               |

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| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                             |                                       |         |                                    | Weapon System |                                                                                       |            |          | DATE:<br>FEBRUARY 2000 |              |          |           |            |          |           |              |              |
|-------------------------------------------------------------------------------------------------|---------------------------------------|---------|------------------------------------|---------------|---------------------------------------------------------------------------------------|------------|----------|------------------------|--------------|----------|-----------|------------|----------|-----------|--------------|--------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: Other Ships Support Equipment |                                       |         |                                    | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>OTHER SHIPS TRAINING EQUIPMENT LI: 132000/SUBH: 81H5 |            |          |                        |              |          |           |            |          |           |              |              |
| COST CODE                                                                                       | ELEMENT OF COST                       | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |               |                                                                                       |            |          |                        |              |          |           |            |          |           |              |              |
|                                                                                                 |                                       |         | Prior Years                        | FY 1998       |                                                                                       |            | FY 1999  |                        |              | FY 2000  |           |            | FY 2001  |           |              |              |
|                                                                                                 |                                       |         | Total Cost                         | Quantity      | Unit Cost                                                                             | Total Cost | Quantity | Unit Cost              | Total Cost   | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost   |              |
|                                                                                                 | <b><u>SURFACE WARFARE (N86)</u></b>   |         |                                    |               |                                                                                       |            |          |                        |              |          |           |            |          |           |              |              |
| H5265                                                                                           | Surface Sustaining TTE                |         |                                    |               |                                                                                       |            | 9        | 72                     | 652          |          |           |            |          |           | 559          | 502          |
|                                                                                                 | <b><u>SUBMARINE WARFARE (N87)</u></b> |         |                                    |               |                                                                                       |            |          |                        |              |          |           |            |          |           |              |              |
| H5276                                                                                           | Subsurface Sustaining TTE             |         |                                    |               |                                                                                       |            |          |                        | 1,135        |          |           |            |          |           | 1,132        | 765          |
|                                                                                                 | <b><u>AIR WARFARE (N88)</u></b>       |         |                                    |               |                                                                                       |            |          |                        |              |          |           |            |          |           |              |              |
| H5262                                                                                           | BFTT (GNSS)                           |         |                                    |               |                                                                                       |            |          |                        |              |          | 8         | 269        | 2,149    | 8         | 254          | 2,035        |
|                                                                                                 | <b>SUBTOTAL (N86)</b>                 |         |                                    |               |                                                                                       |            |          |                        | 652          |          |           |            |          |           | 559          | 502          |
|                                                                                                 | <b>(N87)</b>                          |         |                                    |               |                                                                                       |            |          |                        | 1,135        |          |           |            |          |           | 1,132        | 765          |
|                                                                                                 | <b>(N88)</b>                          |         |                                    |               |                                                                                       |            |          |                        | 0            |          |           |            |          |           | 2,149        | 2,035        |
|                                                                                                 |                                       |         |                                    |               |                                                                                       |            |          |                        | <b>1,787</b> |          |           |            |          |           | <b>3,840</b> | <b>3,302</b> |

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CLASSIFICATION:

| B. APPROPRIATION/BUDGET ACTIVITY                                                                     |          |                       |                                      |                   | C. P-1 ITEM NOMENCLATURE              |                                              |                   |                              | SUBHEAD                   |                                |
|------------------------------------------------------------------------------------------------------|----------|-----------------------|--------------------------------------|-------------------|---------------------------------------|----------------------------------------------|-------------------|------------------------------|---------------------------|--------------------------------|
| <b>Other Procurement, Navy</b><br><b>BA-1: OTHER SHIPS SUPPORT EQUIPMENT</b>                         |          |                       |                                      |                   | <b>Other Ships Training Equipment</b> |                                              |                   |                              | <b>81H5</b>               |                                |
| Cost Element/<br>FISCAL YEAR                                                                         | QUANTITY | UNIT<br>COST<br>(000) | LOCATION<br>OF PCO                   | RFP ISSUE<br>DATE | CONTRACT<br>METHOD<br>& TYPE          | CONTRACTOR<br>AND LOCATION                   | AWARD<br>DATE     | DATE OF<br>FIRST<br>DELIVERY | SPECS<br>AVAILABLE<br>NOW | DATE<br>REVISIONS<br>AVAILABLE |
| <b>H5265</b><br>Surface Sustaining<br>Training TTE<br><br>Training TTE (FY99)<br>Training TTE (FY00) | 9        | 72                    | NAVSEALOGCEN<br>VARIOUS              | N/A<br>N/A        | FFP<br>VARIOUS                        | UNIDYNE, NORFOLK,VA<br>UNIDYNE, NORFOLK,VA   | JUL 99<br>VARIOUS | JAN 00<br>VARIOUS            | YES<br>YES                |                                |
| <b>H5276</b><br>SUBSURFACE<br>SUSTAINING TTE<br>(98-01)                                              |          |                       | VARIOUS                              | N/A               | VARIOUS                               | VARIOUS                                      | VARIOUS           | VARIOUS                      | YES                       |                                |
| <b>H5262</b><br>BFTT (GNSS)<br>FISCAL YEAR 00<br>FISCAL YEAR 01                                      | 8<br>8   | 269<br>254            | NAVSEA ARLINGTON<br>NAVSEA ARLINGTON | MAY 97<br>MAY 97  | CPFF<br>CPFF                          | AAI, HUNT VALLEY, MD<br>AAI, HUNT VALLEY, MD | MAR 98<br>MAR 98  | APR 00<br>APR 01             | YES<br>YES                |                                |
| D. REMARKS                                                                                           |          |                       |                                      |                   |                                       |                                              |                   |                              |                           |                                |



| BUDGET ITEM JUSTIFICATION SHEET<br>P-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |            |  |  |         |         |         | DATE:<br>FEBRUARY 2000                                                                                                                                       |         |         |         |                |        |
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| APPROPRIATION/BUDGET ACTIVITY<br><b>OTHER PROCUREMENT, NAVY</b><br><b>BA 1: SHIPS SUPPORT EQUIPMENT</b><br>Program Element for Code B Items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |  |  |         |         |         | P-1 ITEM NOMENCLATURE/LINE ITEM #<br><br><p style="text-align: center;"><b>OPERATING FORCES IPE BLI:144500 SBHD: 81KN</b></p> OTHER RELATED PROGRAM ELEMENTS |         |         |         |                |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Prior<br>Years | ID<br>Code |  |  | FY 1999 | FY 2000 | FY 2001 | FY 2002                                                                                                                                                      | FY 2003 | FY 2004 | FY 2005 | To<br>Complete | Total  |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |            |  |  |         |         |         |                                                                                                                                                              |         |         |         |                |        |
| EQUIPMENT COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |            |  |  | \$0.7   | \$4.5   | \$2.7   | \$7.8                                                                                                                                                        | \$7.8   | \$5.5   | \$5.7   | N/A            | \$34.7 |
| SPARES COST<br>(In Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |  |  |         |         |         |                                                                                                                                                              |         |         |         |                |        |
| <b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |  |  |         |         |         |                                                                                                                                                              |         |         |         |                |        |
| <p>AS A RESULT OF THE ESTABLISHMENT OF A P-1 FOR ITEMS UNDER \$5M THIS BUDGET CONTAINS THE FOLLOWING PROGRAMS: OPERATING FORCES IPE, SURFACE IMA, AND MINI/MICROMINATURE ELECTRONIC TEST AND REPAIR EFFECTIVE FY 00 AND OUT.</p> <p><b>OPERATING FORCES INDUSTRIAL PLANT EQUIPMENT (IPE)</b> - Under Operating Forces IPE, the IPE Replacement Program maintains the infrastructure of repair capability on tenders and other ships. It supplies IPE to replace aging equipment to comply with EPA and OSHA regulations and to introduce new repair technology.</p> <p><b>BATTLE FORCE MAINTENANCE ACTIVITIES (BFMA)</b> - Under Operating Forces IPE, the BFMA Program upgrades battle force and amphibious group leaders (CV/CVN and LHA/LHD) to the core repair capability. The BFMA repairs CASREPS, emergent jobs and routine work within their capability and capacity.<br/>Intermediate Maintenance Activity (IMA) Improvement Program:</p> <p><b>INTERMEDIATE MAINTENANCE</b> - Under Operating Forces IPE, the Intermediate Maintenance Program funds are used to procure industrial plant equipment for shore activities which provide maintenance capabilities for Sailors to maintain surface and sub-surface vessels of the U.S. Navy. These activities ashore include the following: Shore Intermediate Maintenance Activities (SIMAs), Trident Refit Facilities (TRFs), Regional Repair Centers, Subase Repair Activities, and Air Cushion Unit Facilities and Ship Repair Facilities (SRFs). The equipment provided to ashore activities correlates to skills required when Sailors are assigned to maintenance shops afloat. The programs provide new and used Industrial Plant Equipment (IPE) to replace equipment beyond economical repair and to upgrade capabilities for ship maintenance under the following categories:</p> <p><b>MILITARY CONSTRUCTION OUTFITTING (MCON)</b> - Under Operating Forces IPE, modern IPE, test equipment, and associated support equipment must be procured and installed or available for use in the work spaces. Procurement of equipment is phased to coincide with military construction milestones. <b>IPE REPLACEMENT</b> - SIMAs are inspected periodically to determine the need for refurbishment or replacement of existing equipment. <b>IMA UPGRADE</b> - IMA Upgrade provides technology to improve work shop productivity and add new capabilities, to meet changing OSHA and EPA standards, and to maintain existing capabilities where machinery becomes uneconomical to repair. New equipment is procured to satisfy realignment of capabilities at IMAs in support of new systems.</p> |                |            |  |  |         |         |         |                                                                                                                                                              |         |         |         |                |        |

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| <b>BUDGET ITEM JUSTIFICATION SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>DATE:</b>                             |
| <b>P-40 CONTINUATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>FEBRUARY 2000</b>                     |
| <b>APPROPRIATION/BUDGET ACTIVITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b> |
| <b>OTHER PROCUREMENT, NAVY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                          |
| <b>BA 1: SHIPS SUPPORT EQUIPMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>OPERATING FORCES IPE BLI: 144500</b>  |
| <b><u>PEARL HARBOR PILOT PROGRAM:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                          |
| <p>This line item provides funding for the newly established consolidated Pearl Harbor Naval Shipyard/Intermediate Maintenance Facility (PHNSY/IMF). Funds will be used for the procurement and execution of Class 2 plant property projects, minor construction projects, and Class 3 &amp; 4 industrial plant equipment projects to maintain, modernize, and improve the PHNSY/IMF infrastructure and industrial base. Funding will allow PHNSY/IMF to perform the mission of repairing, conversion, and modernization of fleet ships and submarines in the most economical, efficient, environmentally sound, and safe manner possible. As this is a pilot program having impact on other fleet depot maintenance activities, it is critical these projects be funded in order to most accurately determine the economic and operational success or failure of the program itself.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                          |
| <b><u>MINI/MICROMINIATURE ELECTRONIC TEST AND REPAIR :</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                          |
| <p>The Navy 2M Module Test &amp; Repair (MTR) Program provides sailors with the capability to repair electronic Circuit Card Assemblies (CCAs) and Electronic Modules (EMs) at Intermediate Maintenance Activities and aboard most combatants. Funding to requirement levels will enable Navy cost avoidance annually by Fleet maintain levels executing CCA repairs in lieu of more expensive depot sites. The services provided by 2M allow new repair tools to be selected, deployed, and supported in the Fleet in time to support new CCA technologies. Deploying Automatic Test (ATE) and Diagnostic Equipment, and their respective Test Program Sets and Gold Disks allows shipboard personnel to test and diagnose circuit card assemblies at the site of the operational failure. The 2M Program (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding Fleet OPTAR costs and averting CASREPs. This funding is used to procure and deploy non-aviar Test Program Sets (TPSs) and Gold Disks. Outyear funding will be used to procure and deploy commercial equipment to test and diagnose new electronic technologies being introduced into the Fleet. Due to changing technologies, CCAs currently in the Fleet range in price from \$500 to \$40K each. Currently deployed repair tools, equipment and repair processes will not support repair of CCAs containing advanced technologies such as surface mount and leadless ship carrier. This technology is now becoming prevalent in commercial and military equipment.</p> <p>The value of the 2M repair program is not restricted to a platform or system nor is limited to purely monetary avoidance's. The 2M repair program allows Fleet readiness to be maintained by providing a capability for quality Fleet repairs, thus reducing degradation of equipment reliability and availability. This is a continuing program. As such the quantities identified in this budget will be used to procure new technology tools and integrate capabilities to enable them to be more usable for the Sailor.</p> |  |                                          |
| <p><b>N88 EQUIPMENT SUPPORT:</b> This line item provides quantity (4) Closed Loop UHP Waterjets (2 per coast) to support the removal of non-skid surface during annual routine CV/CVN surface replacement. Procurement of this equipment will incur an estimated annual savings of \$3.6M across the carrier fleet over typical bead blasting machines currently used.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                          |

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

| WEAPONS SYSTEM COST ANALYSIS<br>P-5                                                       |                                                          |         |                                    |           |            | Weapon System |                                                                             |            | DATE:<br>FEBRUARY 2000 |           |              |         |  |              |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------|---------|------------------------------------|-----------|------------|---------------|-----------------------------------------------------------------------------|------------|------------------------|-----------|--------------|---------|--|--------------|
| APPROPRIATION/BUDGET ACTIVITY<br>Other Procurement, Navy<br>BA 1: SHIPS SUPPORT EQUIPMENT |                                                          |         |                                    |           |            | ID Code       | P-1 ITEM NOMENCLATURE/SUBHEAD<br>OPERATING FORCES IPE BLI:144500 SBHD: 81KN |            |                        |           |              |         |  |              |
| COST CODE                                                                                 | ELEMENT OF COST                                          | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           |                                                          |         |                                    |           |            | FY 1999       |                                                                             |            | FY 2000                |           |              | FY 2001 |  |              |
|                                                                                           |                                                          |         | QTY                                | UNIT COST | TOTAL COST | QTY           | UNIT COST                                                                   | TOTAL COST | QTY                    | UNIT COST | TOTAL COST   |         |  |              |
| KN100                                                                                     | <b><u>N43 LOGISTIC SUPPORT/IPE/BFMA</u></b>              |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           | IPE REPLACEMENT                                          |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 0            |
|                                                                                           | BFMA IPE UPGRADE                                         |         |                                    |           |            |               |                                                                             |            |                        | 296       |              |         |  | 609          |
| KN100                                                                                     | <b><u>N86 SURFACE SUPPORT</u></b>                        |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           | IPE REPLACEMENT                                          |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 0            |
|                                                                                           | BFMA IPE UPGRADE                                         |         |                                    |           |            |               |                                                                             |            |                        | 370       |              |         |  | 567          |
|                                                                                           | SUBTOTAL IPE/BFMA                                        |         |                                    |           |            |               |                                                                             |            |                        | 666       |              |         |  | 1,176        |
| KN200                                                                                     | <b><u>N43 LOGISTIC SUPPORT</u></b>                       |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           | SUBLANT (MCON)                                           |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 745          |
|                                                                                           | IPE REPLACEMENT                                          |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 437          |
|                                                                                           | IMA UPGRADE                                              |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 104          |
|                                                                                           | SUBTOTAL MCON/IPE/IMA                                    |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 437          |
| KN300                                                                                     | <b><u>PEARL HARBOR PILOT SUPPORT</u></b>                 |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           | PEARL HARBOR PILOT                                       |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 2,430        |
|                                                                                           | SUBTOTAL PEARL HARBOR PILOT                              |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 2,430        |
| KN400                                                                                     | <b><u>MINI/MICROMINIATURE ELEC TEST &amp; REPAIR</u></b> |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           | DIAGNOSTIC AND REPAIR TOOLS                              |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 480          |
|                                                                                           | SUBTOTAL MINI/MICROMINIATURE                             |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 480          |
| KN500                                                                                     | <b><u>N88 EQUIPMENT SUPPORT</u></b>                      |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           | OTHER EQUIPMENT                                          |         |                                    |           |            |               |                                                                             |            |                        | 0         |              |         |  | 0            |
| <b>GRAND TOTAL</b>                                                                        |                                                          |         |                                    |           |            |               |                                                                             |            |                        |           |              |         |  |              |
|                                                                                           |                                                          |         |                                    |           |            |               | <b>666</b>                                                                  |            |                        |           | <b>4,523</b> |         |  | <b>2,689</b> |