



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
2000 NAVY PENTAGON  
WASHINGTON, DC 20350-2000

OPNAVINST 3501.160C CH-2  
N96  
15 Aug 2014

OPNAVINST 3501.160C CHANGE TRANSMITTAL 2

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES AND PROJECTED  
OPERATIONAL ENVIRONMENT FOR CG 47 (TICONDEROGA) CLASS  
GUIDED MISSILE CRUISERS

Encl: (1) Revised Page 13 of Enclosure (2)  
(2) Revised Page 17 of Enclosure (2)  
(3) Revised Page 24 of Enclosure (2)  
(4) Revised Pages 33 and 34 of Enclosure (2)  
(5) Revised Page 43 of Enclosure (2)  
(6) Revised Page 49 of Enclosure (2)  
(7) Revised Pages 67 and 68 of Enclosure (2)

1. Purpose. To transmit new pages to enclosure (2), which corrects information in change transmittal 1.

2. Action

a. Remove page 13 of enclosure (2) and insert enclosure (1) of this change transmittal.

b. Remove page 17 of enclosure (2) and insert enclosure (2) of this change transmittal.

c. Remove page 24 of enclosure (2) and insert enclosure (3) of this change transmittal.

d. Remove pages 33 and 34 of enclosure (2) and insert enclosure (4) of this change transmittal.

e. Remove page 43 of enclosure (2) and insert enclosure (5) of this change transmittal.

f. Remove page 49 of enclosure (2) and insert enclosure (6) of this change transmittal.

g. Remove pages 67 and 68 of enclosure (2) and insert enclosure (7) of this change transmittal.

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15 Aug 2014

3. Records Management. Records created as a result of this instruction, regardless of media and format, shall be managed per Secretary of the Navy Manual 5210.1 of January 2012.



P. J. FANTA

Director, Surface Warfare

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DEPARTMENT OF THE NAVY  
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2000 NAVY PENTAGON  
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OPNAVINST 3501.160C CH-1  
N96  
4 Apr 2014

OPNAVINST 3501.160C CHANGE TRANSMITTAL 1

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES AND PROJECTED  
OPERATIONAL ENVIRONMENT FOR CG 47 (TICONDEROGA) CLASS  
GUIDED MISSILE CRUISERS

Encl: (1) Revised Page 13 of Enclosure (2)  
(2) Revised Page 17 of Enclosure (2)  
(3) Revised Page 24 of Enclosure (2)  
(4) Revised Pages 33 and 34 of Enclosure (2)  
(5) Revised Page 43 of Enclosure (2)  
(5) Revised Page 49 of Enclosure (2)  
(7) Revised Pages 67 and 68 of Enclosure (2)

1. Purpose. To transmit new pages to enclosure (2), which revise capabilities to support reversal of optimal manning initiatives per the Chief of Naval Operations direction.

2. Action

a. Remove page 13 of enclosure (2) of the basic instruction and insert enclosure (1) of this change transmittal.

b. Remove page 17 of enclosure (2) of the basic instruction and insert enclosure (2) of this change transmittal.

c. Remove page 24 of enclosure (2) of the basic instruction and insert enclosure (3) of this change transmittal.

d. Remove pages 33 and 34 of enclosure (2) of the basic instruction and insert enclosure (4) of this change transmittal.

e. Remove page 43 of enclosure (2) of the basic instruction and insert enclosure (5) of this change transmittal.

f. Remove page 49 of enclosure (2) of the basic instruction and insert enclosure (6) of this change transmittal.

g. Remove pages 67 and 68 of enclosure (2) of the basic instruction and insert enclosure (7) of this change transmittal.

3. Records Management. Records created as a result of this instruction, regardless of media and format, shall be managed per Secretary of the Navy Manual 5210.1 of January 2012.



T. S. ROWDEN  
Director, Surface Warfare

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OPNAVINST 3501.160C  
N96  
19 SEP 2012

OPNAV INSTRUCTION 3501.160C

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES AND PROJECTED  
OPERATIONAL ENVIRONMENT FOR CG 47 (TICONDEROGA) CLASS  
GUIDED MISSILE CRUISERS

Ref: (a) OPNAVINST C3501.2K (NOTAL)  
(b) NTPP 1-03.3

Encl: (1) Projected Operational Environment for CG 47  
(Ticonderoga) Class Guided Missile Cruisers  
(2) Required Operational Capabilities for CG 47  
(Ticonderoga) Class Guided Missile Cruisers

1. Purpose. This issues the required operational capabilities (ROC) and the projected operational environment (POE) for CG 47 (Ticonderoga) class guided missile cruisers.

2. Cancellation. OPNAVINST F3501.160B.

3. Discussion. Enclosures (1) and (2) have been prepared pursuant to reference (a). The ROC and POE provide the necessary details to describe the mission areas, environment and operational capabilities for which the CG 47 class guided missile cruiser was designed and organized as required by reference (a). This instruction provides resource agencies information concerning CG 47 class mission requirements, capabilities, and the types and locations of expected operations. Together, the ROC and POE establish tasking which produces a measurable workload to compute manpower requirements for ship manpower documents (SMD). Enclosure (2) will be used to support specific mission area M-ratings reported under reference (b).

4. Action. Request Commander, Naval Surface Forces Atlantic and Naval Surface Force U.S. Pacific Fleet, and commanding officers periodically review enclosures (1) and (2) and recommend changes to the Chief of Naval Operations (Attn: Manpower Branch (N96D1)) through appropriate administrative

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chain of command when capability of the CG 47 class is significantly altered. Change recommendations should include comments on the expected SMD impact.

5. Records Management. Records created as a result of this instruction, regardless of media and format, shall be managed per Secretary of the Navy Manual 5210.1 of January 2012.



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**PROJECTED OPERATIONAL ENVIRONMENT (POE)  
FOR  
CG 47 (TICONDEROGA) CLASS GUIDED MISSILE CRUISERS**

1. The CG 47 class guided missile cruiser's mission is to operate in up to and including a high density, multi-threat environment as an integral element of the task force (TF) or task group (TG). The mission includes strike warfare (STW) functions against inland targets beyond hostile shorelines and area air defense coordination. The CG 47 provides its own anti-air, anti-surface and anti-submarine self-defense, and must effectively provide local area protection and maritime ballistic missile defense (BMD), if so equipped, to the force, group, or other military shipping against air, surface and subsurface threats.
2. The most demanding operating environment anticipated for the CG 47 is forward deployed wartime operations within the littoral operational environment in cooperation with designated joint and or allied forces, including operations involving coordination of land and sea-based aviation. These operations are frequently characterized by confined and congested water and airspace occupied by friends, adversaries, and neutrals.
3. Peacetime forward operations in the littorals are also demanding. In an era characterized by the proliferation of sophisticated weaponry, coupled with the advance of overseas contingency operations, the CG 47 can anticipate interaction with submarines, coastal missiles, mines, sea-skimming cruise missiles, strategic and or regional ballistic missiles, terrorists, and other asymmetric threats. A substantial percentage of peacetime operations will be conducted within the littorals in cooperation with joint and or allied partners.
4. The CG 47 class shall be capable of performing all assigned primary mission areas simultaneously while maintaining readiness condition I, II, IIAS III (wartime/forward deployment cruising readiness), IV (peacetime training underway operations) or V (in port training and maintenance).

**REQUIRED OPERATIONAL CAPABILITIES (ROC)  
FOR  
CG 47 (TICONDEROGA) CLASS GUIDED MISSILE CRUISERS**

1. The CG 47 class cruiser's mission is to operate in up to and including a high density, multi-threat environment as an integral element of the TF or TG. The mission includes STW functions against inland targets beyond hostile shorelines and area air defense coordination. The CG 47 provides its own anti-air, anti-surface and anti-submarine self-defense, and must effectively provide local area protection and maritime BMD, if so equipped, to the force, group, or other military shipping against air, surface and subsurface threats. Accordingly, the following primary and secondary warfare mission areas are assigned:

CG 47 Class														
AW	AMW	ASW	CCC	FHP	FSO	INT	IO	LOG	MIW	MOB	MOS	NCO	STW	SUW
P	P	P	P	S	P	S	P	S	S	P	P	S	P	P

AW:	Air Warfare	IO:	Information Operation
AMW:	Amphibious Warfare	LOG:	Logistic
ASW:	Anti-Submarine Warfare	MIW:	Mine Warfare
CCC:	Command Control and Communication	MOB:	Mobility
FHP:	Force Health Protection	MOS:	Mission Of State
FSO:	Fleet Ship Operation	NCO:	Non-Combat Operation
INT:	Intelligence Operation	NSW:	Naval Special Warfare
		STW:	Strike Warfare
		SUW:	Surface Warfare

2. The CG 47 is capable of acting as air defense commander (ADC) for extended periods, and can provide limited facilities for additional embarked warfare commanders and staff.

3. ROCs are reported under readiness conditions having major significance in determining the unit's total manpower requirements. The following summarizes conditions covered:

Condition I: Battle Readiness

While in condition I (Battle Readiness), the ship shall be capable of meeting the following criteria:



- a. Able to perform all offensive and defensive functions simultaneously.
- b. Able to keep all installed systems manned and operating for maximum effectiveness.
- c. Required to accomplish only that minimal maintenance routinely associated with watch standing and urgent repairs.

Evolutions such as replenishment, law enforcement, or helicopter (helo) operations are not appropriate unless the evolution stations are co-manned by personnel from other battle stations. The maximum expected continuous crew endurance for condition I is 24 hours.

Condition II: Modified Battle Readiness

Condition II is condition I (Battle Readiness) modified to meet particular imminent threats that are situation-dependent. As such, condition II is a subset of condition I that stands up particular condition I capabilities at the discretion of the TF commander, TG commander, or commanding officer. While in condition II, the ship shall be capable of meeting the following criteria:

- a. Able to simultaneously perform those offensive and defensive functions necessary to counter specific imminent, limited threats.
- b. Able to keep required operational systems continuously manned and operating.
- c. Able to perform other command and control functions relevant to the threat which are not required to be accomplished simultaneously.
- d. Able to accomplish urgent underway planned maintenance (PM) and support functions.
- e. Able to conduct emergent evolutions such as replenishment, law enforcement, or helo operations using off watch personnel.

The maximum expected continuous duration for condition II is 10 days, with a minimum of 4 to 6 hours of rest provided per man per day. Since scenarios cannot be fixed in advance for all foreseeable combinations of circumstances other than full general quarters, a condition II column is not portrayed in the table of ROCs.

Condition III: Wartime/Increased Tension/Forward Deployed Cruising Readiness

Reduced defensive systems are manned to a level sufficient to counter pop-up threats. While in condition III, the ship shall be capable of meeting the following criteria:

- a. Able to keep installed systems manned and operating as necessary to conform with prescribed ROCs.
- b. Able to accomplish all normal underway maintenance, support and administrative functions.
- c. Able to conduct evolutions such as replenishment, law enforcement, or helo operations using off watch personnel.

To determine manpower requirements, the maximum expected crew endurance for condition III is 60 days, with opportunity for 8 hours of rest provided per man per day.

Condition IV: Peacetime Cruising Readiness

While in condition IV, the ship shall be capable of meeting the following criteria:

- a. Able to keep installed systems manned and operating only to the extent necessary for safe and effective ship control, propulsion and security.
- b. Able to accomplish all normal underway maintenance, support and administrative functions.
- c. Able to conduct evolutions such as replenishment, law enforcement, or helo operations with off watch personnel.

Maximum advantage shall be taken for training and exercise opportunities. Expected endurance is not constrained by personnel. Ability to immediately change readiness posture to condition I, II or III is expected.

Condition V: In port Readiness

Designated maintenance and training period. While in condition V, the ship shall be capable of meeting the following criteria:

a. Able to keep installed systems manned and operating to the extent necessary for effective operation as dictated by the existing situation.

b. Able to man watch stations as required to provide adequate security.

c. Able at all times to meet anticipated in port emergencies and to perform in port functions as prescribed by unit ROCs.

d. Able to accomplish all required maintenance, support, and administrative functions.

Maximum advantage shall be taken for training and exercise opportunities. Subject to the foregoing requirements the crew will be provided maximum opportunity for rest, leave and liberty.

4. ROC symbols will be used to specify the desired level of achievement of readiness or other work for or during a particular readiness condition. Readiness normally applies to watches and or evolutions, while other work refers to non-watch activity such as performing maintenance or running the galley.

CAPABILITIES

"F" = "Full." The capability is to be fully achieved. For operational functions (watches), this means that installed equipment or systems will be fully manned to design capability. For support functions, sufficient manning is provided to ensure effective accomplishment

of all included tasks. The achievement is to be sustained for the duration of the condition unless modified by an "A" or "E."

"L" = "Limited." The capability is to be only partially realized. Even though only limited capability is realized, it is to be sustained for the duration of the condition unless modified by an "A" or "E." A limiting statement specifying the limitation must support every "L".

#### MODIFIERS

"A" = "Augmentation." The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using off-watch or off-duty personnel to achieve the required degree of capability. This symbol is always associated with an "F" or "L" and establishes a requirement for personnel to be trained, available and on call to augment existing watch stations as required.

"E" = "Special Team." The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using off-watch special teams or details. This symbol is always associated with an "F" or "L" and denotes a capability, which does not require continuous watch manning. Teams and details as set may either supplement or replace all or part of the existing watch organization. Man overboard and replenishment details are two examples.

		CAPABILITY	
		FULL (F)	LIMITED (L)
MODIFIER			
None	➤	Manned to design capacity for duration of condition	Manned to less than design capacity for duration of condition
A	➤	Temporarily manned to design capacity using off-watch personnel	Temporarily manned to less than design capacity using off-watch personnel
E	➤	Temporarily manned to design capacity using a special team	Temporarily manned to less than design capacity using a special team

5. Normally, using an "A" or an "E" requires no embellishing statement as their meanings are predefined. However, in the case of the CG 47 as well as other classes that may embark external resources, the meaning may not be clear as to whether ship's company or an external resource should provide the augmentation. This ROC and POE instruction shows:

- a. If the resource is ship's company, no elaboration or statement is provided.
- b. If the resource is external for "F," a note is added to the ROC stating the resource.
- c. If the resource is external for "L," the resource is added to the capability limiting statement.

6. Work definitions

a. Watches. A position sustained for the duration of readiness condition. A watch stander must be properly relieved before he or she can perform any non-watch activities. During conditions III and IV, a position that is not manned 24 hours a day is not a watch; it is another type of work.

b. Facility Maintenance. Cleanliness and preservation work. Sweeping and swabbing, chipping and painting. Usually covered under NCO 3 for own unit. Also, applies to other ROCs (e.g., FSO 3.1) for maintaining facilities for other units such as a staff or helo detachment.

c. Equipment Maintenance. PM and corrective maintenance (CM). Generally, organization maintenance is covered under NCO 3 for own unit. Most mission areas include ROCs for equipment repair and casualty control specific to that mission area. Also, equipment maintenance may include maintaining equipment for other units such as a staff or helo detachment (FSO 3.1).

d. Own Unit Support. Basically, this is all work that is neither watch or maintenance. It includes administrative and management work for the ship and all work centers, all supply, medical and planning functions (NCO 2).

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**REQUIRED OPERATIONAL CAPABILITIES**

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>AIR WARFARE (AW)</b>					
<b>AW 1</b>	<b>PROVIDE AIR DEFENSE INDEPENDENTLY OR IN COOPERATION WITH OTHER FORCES.</b>				
AW 1.1	<p>Provide area defense for a strike group (SG).</p> <p>NOTE: If equipped, provide regional tactical BMD during SG operations.</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of tactical action officer (TAO), combat systems coordinator, missile systems supervisor and air warfare (AW) coordinator.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.2	<p>Conduct air self-defense using missile, gun, electronic or physical systems (e.g., chaff, flares).</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator. Gun engagements using one of two guns require manning of Gun Fire Control System (GFCS) console and electronic panel 2 (EP2) operators. Close In Weapon System (CIWS) remote control panel (RCP) operated by missile system supervisor.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 1.3	<p>Coordinate air defense planning and act as ADC for joint/battle group/convoy/expeditionary/amphibious/replenishment operations.</p> <p>NOTE: The ADC will assign defensive counter air (DCA) and airborne early warning (AEW) aircraft to sectors and DCA stations, coordinate their movement with other friendly aircraft, issue air raid warnings and ensure the proper degree of DCA/missile deployment in defense of the force. Tactical air control groups (TACGRUs) or tactical air control squadron (TACRONs), when present, will normally act as ADC for amphibious force or group operations.</p> <p>NOTE: If equipped, coordinate regional BMD planning and act as BMD commander (BMDC) for joint/carrier strike group (CSG)/convoy/expeditionary/amphibious/replenishment operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.4	<p>Provide area defense for a convoy or underway replenishment group (URG).</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.5	<p>Provide area defense for amphibious forces in transit and in the amphibious objective area (AOA).</p> <p>NOTE: If equipped, provide BMD for amphibious operations. Provide ballistic missile cueing and warning to forces ashore.</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>



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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 1.6	<p>Provide area defense for a surface action group (SAG).</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.7	<p>Engage air targets during joint/group operations.</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile supervisor and AW coordinator. Gun engagements using one of two guns require manning of GFCS console and EP2 operators. CIWS RCP operated by missile system supervisor.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.8	<p>Plan/direct air defense.</p> <p>NOTE: If equipped, plan/direct regional BMD operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 1.9	<p>Plan/direct engagement of targets during group operations in cooperation with naval/joint/combined forces.</p> <p>NOTE: The ADC will assign DCA and AEW aircraft to sectors and DCA stations, coordinate their movement with other friendly aircraft, issue air raid warnings and endure the proper degree of DCA/missile deployment in defense of the force. TACGRUS or TACRONs, when present, will normally act as ADC for amphibious force or group operations.</p> <p>NOTE: If equipped, plan/direct BMD during group operations in cooperation with naval/joint/combined forces. Provide strategic warning of ballistic missile attacks in cooperation with other forces.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.10	<p>Provide sea-based theater BMD for Navy area.</p> <p>NOTE: If BMD equipped, provide defense of areas assigned as defined by the defended assets list (DAL).</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.11	<p>Direct the engagement of ballistic missiles during group operations.</p> <p>NOTE: If equipped.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.12	<p>Provide air defense for non-combatant evacuations operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 1.13	<p>Provide air defense for naval/joint/combined TF operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AW 2</b>	<b>PROVIDE AIR DEFENSE OF A GEOGRAPHIC AREA (ZONE) INDEPENDENTLY OR IN COOPERATION WITH OTHER FORCES.</b>				

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 2.1	<p>Provide air defense of a geographic area (zone).</p> <p>NOTE: If equipped, provide BMD of a geographic area.</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator. Gun engagements using one of two guns require manning of GFCS console and EP2 operators. CIWS RCP operated by missile system supervisor.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
AW 2.2	<p>Provide sea-based theater BMD for Navy theater-wide.</p> <p>NOTE: If equipped.</p> <p>III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
AW 2.3	<p>Plan/direct air defense and employment of air defense weapons in a geographic area (zone).</p> <p>NOTE: If equipped, plan/direct BMD operations in a geographic area.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AW 4</b>	<b>CONDUCT AIR OPERATIONS TO SUPPORT AIRBORNE ANTI-AIR OPERATIONS.</b>				
AW 4.10	<p>Plan/direct air operations to support airborne anti-air operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AW 5</b>	<b>CONDUCT AIRBORNE ANTI-AIR OPERATIONS.</b>				
AW 5.6	<p>Plan/direct airborne OCA operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 5.7	Plan/direct airborne OCA operations in cooperation with naval/joint/combined forces.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AW 6 DETECT, IDENTIFY AND TRACK AIR TARGETS.</b>					
AW 6.2	Recognize by sight friendly and enemy aircraft.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
AW 6.3	Maintain an accurate air plot.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
AW 6.4	Measure aircraft altitude by radar.	<b>F</b>	<b>F</b>	<b>F</b>	
AW 6.5	Detect, identify and track air targets with radar and/or cooperative sensors.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
AW 6.6	Acquire and track air targets with GFCS/Missile Fire Control Systems (MFCS).  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
AW 6.7	Detect, classify and track air targets by electronic warfare support measures (ESM).  NOTE: Full capability provided by electronic warfare (EW) supervisor and electronic warfare support (ES) operator.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 6.12	Detect, identify and track ballistic missiles with radar and/or cooperative sensors.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 6.13	Identify air targets as friendly/non-friendly using transponder interrogation equipment.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
AW 6.15	Identify air targets using non-cooperative target recognition.  NOTE: Applicable to those ships with Shipboard Advance Radar Target Identification System installed.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 6.21	Correlate onboard sensor targeting information with link 16.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
AW 6.22	Detect, track, classify, and identify cruise missiles.  NOTE: Applicable in those ships with combined engagement capability (CEC) installed.  III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator. Gun engagements using one of two guns require manning of GFCS console and EP2 operators. CIWS RCP operated by missile system supervisor.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>AW 7</b>	<b>CONTROL DCA (REQUIRES FULL ALLOWANCE OF AIR INTERCEPT CONTROLLERS (AIC)).</b>  NOTE: Full capability during condition I and condition III requires one AIC on watch.				

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 7.1	Support/conduct air intercepts/engagement missions against aircraft and subsurface, surface, or air-launched missiles.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
AW 7.2	Support/conduct DCA/missile/gun coordination.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
AW 7.3	Provide continuous multiple air intercept/engagement control capability.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
AW 7.4	Control DCA under all conditions of active jamming.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 7.5	Plan/direct DCA/missile/gun coordination.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AW 8</b>	<b>ENGAGE AIR TARGETS USING INSTALLED AIR-TO-AIR WEAPONS SYSTEMS.</b>				
AW 8.7	Plan/direct engagement of air targets by air-to-air armament.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AW 9</b>	<b>ENGAGE AIRBORNE THREATS USING SURFACE-TO-AIR ARMAMENT.</b>				
AW 9.1	Engage medium/high altitude, high-speed airborne threats with medium/long-range missiles.  III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AW 9.3	Engage low altitude threats with missiles.  III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
AW 9.4	Engage low/medium altitude airborne threats with gunfire.  III(L) - Man Aegis combat system, one 5"/54 or 5"/62 mount (without gun or magazine crew). CIWS RCP operated by missile system supervisor.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
AW 9.5	Engage airborne threats using installed anti-air weapons.  III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat systems coordinator, missile systems supervisor and AW coordinator. Gun engagements using one of two guns require manning of GFCS console and EP2 operators. CIWS remote control panel operated by missile system supervisor.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
AW 9.6	Engage airborne threats utilizing soft-kill weapons systems (e.g., chaff/decoys).  NOTE: Reloading stations co-manned from other battle stations.  III(L) - Reload capability provided by off-watch personnel.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
AW 9.8	Plan/direct engagement of airborne threats by surface-to-air armament.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>AW 11</b>	<b>REPAIR OWN UNIT'S AW EQUIPMENT.</b>  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>AW 12</b>	<b>CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S AW CAPABILITIES.</b>  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.  III, IV(L) - Man Combat Systems Operational Sequencing System (CSOSS) watch organization with combat system officer of the watch (CSOOW)/combat systems maintenance supervisor and electronics support supervisor.  V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>AW 13</b>	<b>PERFORM AW BATTLE DAMAGE ASSESSMENT (BDA).</b>				
AW 13.1	Perform AW BDA.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
AW 13.2	Coordinate and evaluate AW BDA.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>AMPHIBIOUS WARFARE (AMW)</b>					
<b>AMW 6</b>	<b>CONDUCT HELICOPTER OPERATIONS TO SUPPORT AN AMPHIBIOUS OPERATION.</b>  NOTE: During condition I, stand down other battle watch stations to man flight deck, rescue boat detail and crash and salvage detail.				
AMW 6.1	Conduct day helo flight operations.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
AMW 6.2	Conduct night helo flight operations.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AMW 6.4	Provide conventional ordnance to support amphibious operations within required turnaround times.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	F/E	F/E	F/E	
AMW 6.5	Conduct helo flight operations during all emission control (EMCON) conditions.	F/E	F/E	L/E	
AMW 6.6	Conduct helo hot and cold refueling operations.	F/E	F/E	F/E	
AMW 6.7	Serve as helo haven.	F/E	F/E	F/E	
AMW 6.8	Provide electrical power for helo starting, testing, etc.	F/E	F/E	F/E	
AMW 6.9	Provide ground handling equipment for loading and spotting helos.	F/E	F/E	F/E	
AMW 6.10	Conduct precision radar controlled approach (PRCA) for aircraft under all weather conditions.	F/E	F/E	F/E	
<b>AMW 9</b>	<b>CONDUCT PRE-ASSAULT COVER AND DIVERSIONARY ACTIONS.</b>				
AMW 9.2	Conduct pre-assault cover and diversionary actions.  IV(L) - Plan and train.	F	F	L	
<b>AMW 12</b>	<b>PROVIDE AIR CONTROL AND COORDINATION OF AIR OPERATIONS IN THE ASSIGNED AREA OF OPERATIONS (AO).</b>				
AMW 12.2	Provide coordination of AW, SUW and ASW air assets for protection of the force in the AOA.  NOTE: TACGRUs or TACRONs, when present, will normally act as ADC for amphibious force or group operations.  I, III(L) - Support TACGRU/TACRON.  IV, V(L) - Plan and train.	L	L/A	L	L

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AMW 12.4	<p>Coordinate air assets in the assigned AO with supporting arms to prevent conflicting actions.</p> <p>NOTE: TACGRUs or TACRONs, when present, will normally act as ADC for amphibious force or group operations.</p> <p>I, III(L) - Support TACGRU/TACRON.</p> <p>IV, V(L) - Plan and train.</p>	L	L/A	L	L
<b>AMW 14 CONDUCT NAVAL SURFACE FIRE SUPPORT (NSFS) AGAINST DESIGNATED TARGETS.</b>					
<p>NOTE: Existing condition I gun engagement watch stations augmented (co-manned) by standing down other condition I watch stations to fully man NSFS teams. Existing condition III gun engagement watch stations augmented (co-manned) by off-watch personnel to fully man NSFS teams.</p>					
AMW 14.1	<p>Conduct shore bombardment with conventional weapons.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	L	L
AMW 14.3	<p>Conduct direct fire.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	L	L
AMW 14.4	<p>Conduct indirect fire.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	L	L
AMW 14.5	<p>Conduct simultaneous illumination and destructive fire.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	L	L
AMW 14.8	<p>Coordinate NSFS support against designated targets to support amphibious operations.</p> <p>NOTE: Vessels that have undergone the land attack cruiser conversion must be capable of receiving, disseminating, and responding to digital or voice calls for fire support from other NFCS capable platforms and from ground assets, such as Advanced Field Artillery Tactical Data System.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	L	L

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
AMW 14.9	Conduct amphibious self-defense (counter battery) using gunfire.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L</b>	<b>L</b>
AMW 14.10	Conduct conventionally armed cruise missile or rocket attacks.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L</b>	<b>L</b>
<b>AMW 15 PROVIDE AIR OPERATIONS TO SUPPORT AMPHIBIOUS OPERATIONS.</b>					
AMW 15.1	Launch fixed wing and/or rotary wing aircraft.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
AMW 15.2	Recover fixed wing and/or rotary wing aircraft.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
AMW 15.5	Provide conventional ordnance within required turnaround times.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
AMW 15.8	Control aircraft under all conditions of active jamming.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
AMW 15.9	Load/unload ordnance within required aircraft turnaround time.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
AMW 15.11	Conduct PRCA for aircraft under all weather conditions.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
AMW 15.13	Render safe hazardous explosive ordnance during flight operations and ordnance loading/unloading evolutions.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L/E</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>AMW 20 REPAIR OWN UNIT'S AMW EQUIPMENT.</b>		<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<p>NOTE: During condition III, full capability provided by on-call/off-watch personnel. .</p> <p>I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.</p>					
<b>AMW 43 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S AMW CAPABILITIES.</b>		<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<p>I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.</p> <p>III, IV(L) - Man CSOSS watch organization with CSOOW/combat systems maintenance supervisor and electronics support supervisor.</p> <p>V(L) - Plan and train.</p>					
<b>ANTISUBMARINE WARFARE (ASW)</b>					
<b>ASW 1 PROVIDE ASW DEFENSE FOR SURFACE FORCES, GROUPS AND UNITS.</b>					
ASW 1.1 Defend a convoy (military or mercantile).		<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IV, V(L) - Plan and train.					
ASW 1.2 Defend an SG or TF.		<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IV, V(L) - Plan and train.					
ASW 1.3 Defend amphibious forces or an URG.		<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IV, V(L) - Plan and train.					
ASW 1.6 Operate independently as a search and attack unit (SAU).		<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IV, V(L) - Plan and train.					
ASW 1.7 Plan/direct ASW defense operations for surface forces, groups and units.		<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IV, V(L) - Plan and train.					

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
ASW 1.8	Coordinate water space management for group, naval/joint/combined forces and supporting submarines.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>ASW 2 PROVIDE ASW DEFENSE OF A GEOGRAPHIC AREA.</b>					
ASW 2.1	Operate as an open ocean or chokepoint ASW search/barrier unit.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L</b>	<b>L</b>
ASW 2.3	Operate as an assigned AO ASW defense barrier unit.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 2.4	Defend a group or groups operating in a fixed geographic area (e.g., assigned AO).  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 2.5	Sanitize an area of threat submarines in preparation for use by a surface force.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 2.6	Plan/direct ASW defense of a geographic area (e.g., assigned AO).  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 2.7	Plan/direct opposed port breakout or chokepoint transit for groups and naval/joint/combined forces.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 2.8	Operate as a littoral water ASW barrier.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 2.9	Conduct shallow water ASW operations (less than 100 fathoms).  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>ASW 3 CONDUCT INDEPENDENT ASW OPERATIONS.</b>		<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 3.1	Support/conduct area search and destroy operations.  IV, V(L) - Plan and train.				

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
ASW 3.2	Support/conduct vectored intercept operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>ASW 4</b>	<b>CONDUCT AIRBORNE ANTI-SUBMARINE OPERATIONS.</b>				
ASW 4.7	Plan/direct airborne anti-submarine operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>ASW 5</b>	<b>PROVIDE FOR AIR OPERATIONS IN SUPPORT OF AIRBORNE ANTISUBMARINE OPERATIONS.</b>				
ASW 5.1	Launch fixed wing aircraft and/or rotary wing aircraft.	<b>FE</b>	<b>F/E</b>	<b>F/E</b>	
ASW 5.2	Recover fixed wing aircraft and/or rotary wing aircraft.	<b>FE</b>	<b>F/E</b>	<b>F/E</b>	
ASW 5.4	Provide conventional ordnance within required aircraft turnaround times.  NOTE: Ship's force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
ASW 5.6	Conduct operations during all EMCON conditions.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
ASW 5.7	Load/unload ordnance within required aircraft turnaround times.  NOTE: Ship's force not certified for load aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L/E</b>	
ASW 5.8	Control aircraft under all conditions of active jamming.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
ASW 5.13	Render safe hazardous explosive ordnance during flight operations and ordnance loading/unloading evolutions.  NOTE: Ship's force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L/E</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
ASW 5.14	Conduct PRCAs for embarked/controlled fixed wing aircraft or helos under all weather conditions.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
<b>ASW 6 ENGAGE SUBMARINES INDEPENDENTLY OR IN COOPERATION WITH OTHER FORCES.</b>					
ASW 6.1	Operate as a member of a multi-ship SAU.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.2	Operate as a member of a combined surface and aviation SAU.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.4	Detect, localize and track subsurface contacts with active sonar.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.5	Detect, localize, classify and track subsurface contacts with passive sonar.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.6	Detect, localize and track subsurface contacts with active sonobuoys.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.7	Detect, localize, classify and track subsurface contacts with passive sonobuoys.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.8	Detect, localize and track subsurface contacts which are at periscope depth visually or with radar.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
ASW 6.9	Detect, localize, classify and track submarines assisted by real time passive acoustic analysis.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.10	Classify subsurface contacts.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
ASW 6.12	<p>Detect, localize, classify and track subsurface contacts with tactical towed arrays.</p> <p>NOTE: Target motion analysis (TMA) requires augmentation from off-watch personnel. Only applies to CG's with SQR-19 (tactical towed array sonar).</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 6.14	<p>Detect, identify, classify and track subsurface contacts which are at periscope depth by ESM.</p> <p>NOTE: During condition III, EW supervisor (Aegis console operator) and ES operator provide full capability. Location and targeting requires use of crossfixes.</p> <p>IV(L) - ES operator only.</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>F/E</b>	<b>F/E</b>	<b>L</b>
<b>ASW 7</b>	<b>ATTACK SUBMARINES WITH ANTISUBMARINE ARMAMENT.</b>				
ASW 7.2	<p>Attack with conventional anti-submarine rocket.</p> <p>III(L) - One launcher.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
ASW 7.6	<p>Attack with torpedoes.</p> <p>NOTE: Full capability for torpedo attack is provided by on-call guided missile with surface vessel torpedo tube loaded and charged.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 7.8	<p>Attack with surface-launched missiles.</p> <p>III(L) - One launcher, four illuminators and Aegis combat system manned.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
ASW 7.9	Attack with guns.  III(L) - Gun engagements with one of two guns requires manning of GFCS console and EP2 operators.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
ASW 7.11	Attack with conventional air-to-surface ordnance.  NOTE: Direct nonorganic armed helo or fixed wing aircraft.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 7.12	Plan/direct attack of submarines.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>ASW 8</b>	<b>DISENGAGE, EVADE, AVOID AND DECEIVE SUBMARINES.</b>				
ASW 8.1	Employ torpedo countermeasures and evasion techniques, including:  (a) Torpedo countermeasures-towed electronic broadband noise maker.  NOTE: Streaming and retrieval of Nixie performed by standing down other condition I watch stations or using off-watch personnel during condition III.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 8.2	Employ acoustic countermeasures (ACM) against submarines.  IV, V(L) -Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 8.4	Conduct deception operations in support of ASW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 8.5	Plan/direct submarine disengagement, evasion and avoidance by employing torpedo countermeasures, ACM, acoustic counter-countermeasure (ACCM), deception and evasion techniques.  NOTE: ACCM not included.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>ASW 9</b>	<b>REPAIR OWN UNIT'S ASW EQUIPMENT.</b>  NOTE: During condition III, full capability provided by on-call/off-watch personnel.  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>ASW 10</b>	<b>PERFORM DUTIES OF AIRCRAFT CONTROL UNIT (ACU) FOR AIRCRAFT INVOLVED IN ANTISUBMARINE OPERATIONS (REQUIRES ANTISUBMARINE AIR CONTROLLERS (ASACs)).</b>				
ASW 10.1	Control fixed wing and/or rotary wing ASW aircraft in conjunction with coordinated search and/or attack operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 10.2	Control helicopter screen.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 10.3	Provide positive and/or advisory control of ASW aircraft.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
ASW 10.4	Function as maritime patrol aircraft control unit (MPACU).  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
<b>ASW 12</b>	<b>PERFORM ASW BDA.</b>				
ASW 12.1	Perform ASW BDA.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>ASW 13</b>	<b>CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S ASW CAPABILITIES.</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
	<p>I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.</p> <p>III, IV(L) - Man CSOSS watch organization with CSOOW/combat systems maintenance supervisor and electronics support supervisor.</p> <p>V(L) - Plan and train.</p>				
<b>COMMAND, CONTROL AND COMMUNICATIONS (CCC)</b>					
<b>CCC 1</b>	<b>PROVIDE COMMAND AND CONTROL (C<sup>2</sup>) FACILITIES FOR A TASK ORGANIZATION COMMANDER AND STAFF.</b>				
CCC 1.1	<p>Support (spaces, facilities and equipment only) embarked warfare commander or coordinator (other than own unit commanding officer (CO)).</p> <p>I, III, IV, V(L) - Accommodations limited to 7 officers and 12 enlisted personnel.</p>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
CCC 1.2	<p>Provide C<sup>2</sup> facilities for embarked warfare commander or coordinator (other than own unit CO).</p> <p>I, III, IV, V(L) - Accommodations limited to 7 officers and 12 enlisted personnel.</p>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
CCC 1.9	<p>Provide a signal/EW coordination center with facilities for operations and intelligence personnel.</p>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
CCC 1.13	<p>Provide communications support for embarked warfare commander or coordinator.</p> <p>I, III, IV, V(L) - Facilities shared with ship.</p>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
CCC 1.14	<p>Provide a combat information center (CIC) or combat direction center (CDC) with facilities for a staff watch officer.</p> <p>I, III, IV, V(L) - Facilities shared with ship.</p>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>CCC 2</b>	<b>COORDINATE AND CONTROL THE OPERATIONS OF THE TASK ORGANIZATION OR FUNCTIONAL FORCE TO CARRY OUT ASSIGNED MISSIONS.</b>				
CCC 2.1	<p>Coordinate the reconnaissance of multiple surface, subsurface and/or air contacts.</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
CCC 2.2	<p>Function as ADC for force or sector.</p> <p>NOTE: The ADC will assign DCA and AEW aircraft to sectors and DCA stations, coordinate their movement with other friendly aircraft, issue air raid warnings and ensure the proper degree of DCA/missile deployment in defense of the force. TACGRUs or TACRONs, when present, will normally act as ADC for amphibious force or group operations.</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 2.3	<p>Function as ASW commander for force or sector.</p> <p>I, III(L) - Can accomplish only for short periods of time if assigned other command/coordination responsibilities.</p> <p>IV, V(L) - Plan and train.</p>	<b>L</b>	<b>L/A</b>	<b>L</b>	<b>L</b>
CCC 2.4	<p>Function as SAU or SAG commander.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 2.5	<p>Operate as contact area commander to coordinate multi-type search and attack operations.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 2.6	<p>Function as force or sector officer in tactical command (OTC)/composite warfare commanders (or alternate) to coordinate and control SG/TF operations.</p> <p>I, III, IV(L) - Can accomplish only for short periods of time if assigned other command/coordination responsibilities.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 2.8	Function as on-scene commander for a search and rescue (SAR) operation.  V(L) - Plan and train.	<b>F</b>	<b>F/A</b>	<b>F/A</b>	<b>L</b>
CCC 2.11	Control close air support aircraft in support of amphibious operations in coordination with other supporting arms.  NOTE: Capability provided by AIC and ASAC. During close air support operations, other air control capabilities are degraded or non-existent.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 2.12	Coordinate and control air SAR operations in the assigned AO.  NOTE: Capability provided by AIC and ASAC. During SAR operations, other air control capabilities are degraded or non-existent.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 2.15	Function as one or more of the following coordinators for force or sector.  (a) Air resourse element coordinator. (b) Light airborne multipurpose system (LAMPS) element coordinator. (d) Screen coordinator. (e) Electronic warfare coordinator. (f) Force air track coordinator. (g) Force surface track coordinator. (h) Force track coordinator. (j) Force over the horizon (OTH) track coordinator. (l) Alternate information warfare commander. (zz) Other: launch area coordinator; BMDC.  I, III, IV(L) - Unable to perform all functions simultaneously.  V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
CCC 2.16	Assist in the planning of AW, SUW and ASW for the coordination of air operations in the assigned AO.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 2.18	Function as an SUW commander for force or sector.  NOTE: Capable of functioning as SUW for a limited duration.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 2.21	Function as strike warfare commander for group, naval/joint/combined force or sector.  I, III(L) - Can accomplish only for short periods of time if assigned other command/coordination responsibilities.  IV, V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
CCC 2.22	Function as information operations commander for SG, naval/joint/combined force or sector.  I, III, IV(L) - Can accomplish only for short periods of time if assigned other command/coordination responsibilities.  V(L) - Plan and train.	<b>L</b>	<b>L/A</b>	<b>L</b>	<b>L</b>
CCC 2.23	Function as maritime interception commander for group, naval/joint/combined force or sector.  I, III, IV(L) - Can accomplish only for short periods of time if assigned other command/coordination responsibilities.  V(L) - Plan and train.	<b>L</b>	<b>L/A</b>	<b>L</b>	<b>L</b>
<b>CCC 3</b>	<b>PROVIDE OWN UNIT'S C<sup>2</sup> FUNCTIONS.</b>				
CCC 3.1	Maintain a CIC or CDC capable of collecting, processing, displaying, evaluating and disseminating tactical information.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
CCC 3.3	Provide all personnel services, programs and facilities to safeguard classified material and information.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
CCC 3.4	Carry out emergency destruction of classified material and equipment rapidly and efficiently.  III, IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 3.5	Employ identification friend or foe/selective identification feature (IFF/SIF) including secure IFF mode 4.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 3.7	Maintain a CIC or CDC capable of supporting a TAO.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
CCC 3.11	Establish voice communications with supported forces.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>CCC 4</b>	<b>MAINTAIN NAVY TACTICAL DATA SYSTEM (NTDS) OR DATA LINK CAPABILITY.</b>				
CCC 4.1	Provide link 4A control of airborne DCA.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
CCC 4.3	Transmit/receive and support link 11.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 4.4	Receive data link information from airborne ASW aircraft.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 4.5	Receive and process data link information from satellite communication (SATCOM).  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 4.6	Receive and process data link information from high frequency (HF) systems.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 4.8	Provide Link 16 Joint Tactical Information Direction System (JTIDS) control of airborne DCA.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 4.9	Transmit/receive and support link 16 surveillance, navigation and identification circuits.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 4.10	Transmit/receive and correlate targeting information with link 4A.  V(L) - Plan and train.	F	F	F/A	L
CCC 4.11	Receive data link tracks from airborne AW aircraft.  V(L) - Plan and train.	F	F	F	L
CCC 4.12	Manage, coordinate and direct air assets (air wing, group or joint aircraft) in SUW/STW using data links.  V(L) - Plan and train.	F	F	F/A	L
CCC 4.13	Transmit/receive data via Global Command and Control Systems-Maritime (GCCS-M).  V(L) - Plan and train.	F	F	F	L
<b>CCC 6</b>	<b>PROVIDE COMMUNICATIONS FOR OWN UNIT.</b>				
CCC 6.1	Maintain tactical voice communications.  V(L) - Communications on harbor common and other voice circuits as directed.	F	F	F	L/A
CCC 6.2	Maintain visual communications.  I, III, IV, V(L) - Work one contact for administrative traffic.	L	L	L	L/A
CCC 6.3	Maintain multichannel cryptographically covered teletype/data receive circuits.	F	F	F	
CCC 6.5	Maintain full duplex cryptographically covered HF teletype/data circuits.	F	F	F	F/A
CCC 6.6	Process messages.	F	F	F	F
CCC 6.7	Maintain underwater communications.	F	F	F	
CCC 6.8	Maintain automatic relay communications.	F	F	F	F/A
CCC 6.10	Maintain voice/teletype/computer data cryptographically covered SATCOM circuits.	F	F	F	F/A
CCC 6.12	Maintain internal communications systems.	F	F	F	F
CCC 6.13	Maintain capability for low probability of intercept (LPI) HF communications.	F	F	F	F
CCC 6.14	Maintain capability for LPI SATCOMs.	F	F	F	F/A
CCC 6.15	Maintain frequency database.	F	F	F	F/A



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 6.19	Provide tactical, secure voice or data communications.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F/A</b>
CCC 6.20	Provide internal Ship Signal Exploitation System (SSES) communications system.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F/A</b>
CCC 6.24	Maintain common user digital information exchange system (CUDIXS)/Naval Modular Automated Communications Subsystem (NAVMACS) communications.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F/A</b>
<b>CCC 9 RELAY COMMUNICATIONS.</b>					
CCC 9.1	Relay visual communications.  I(L) - Work one contact.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F/A</b>
CCC 9.2	Relay acoustic communications.  I(L) - Work one contact.  III, IV(L) - Initial limited response to visual signal provided by bridge area watch team. Senior signal proficient Sailor on-call.  V(L) - Work one contact for administrative traffic.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L/A</b>
CCC 9.3	Relay electronic communications.  I, III, IV, V(L) - Capability limited to single point-to-point.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L/A</b>
<b>CCC 11 CONDUCT AIRCRAFT CONTROL FUNCTIONS.</b>					
CCC 11.1	Act as MPACU. V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L/A</b>
CCC 11.2	Act as air raid reporting control ship. V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
CCC 11.3	Act as aircraft control unit for AW, ASW, SUW and/or STW. IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 11.4	Act as air defense identification zone/strike support ship. IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 11.5	Act as NTDS link 11 net control ship/station. IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 11.3	ACU for AW, ASW, SUW and/or STW.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 11.4	Act as air defense identification zone/strike support ship.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 11.5	Act as NTDS link 11 net control ship/station.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>CCC 19</b>	<b>REPAIR OWN UNITS CCC EQUIPMENT.</b>  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.  NOTE: During condition III, full capability provided by on-call/off-watch personnel.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>CCC 20</b>	<b>CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S CCC CAPABILITIES.</b>  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.  III, (L) - Man CSOSS watch organization with CSOOW/combat systems maintenance supervisor and electronics support supervisor.  V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>CCC 21</b>	<b>PERFORM COOPERATIVE ENGAGEMENT.</b>				
CCC 21.1	Plan cooperative engagement.  NOTE: Applicable in those ships with CEC installed.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
CCC 21.2	Direct cooperative engagement.  NOTE: Applicable in those ships with CEC installed.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
CCC 21.3	Participate in cooperative engagement.  NOTE: Applicable in those ships with CEC installed.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>FORCE HEALTH PROTECTION</b>					
<b>FHP 23 PROVIDE MEDICAL CARE TO ASSIGNED AND EMBARKED PERSONNEL.</b>					
FHP 23.1	Conduct sick call.	<b>F</b>	<b>F</b>	<b>F</b>	
FHP 23.3	Conduct lab diagnostic services requiring the following personnel:  (a) Hospital corpsman.  I, III, IV(L) - Minor services within independent duty corpsman skill level and authorized medical allowance list (AMAL) limits.  V(L) - Transfer samples to and/or use a shore laboratory.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
FHP 23.4	Conduct basic ward care.  I, III, IV(L) - for use in emergency cases where medical evacuation (MEDEVAC) is not possible or where return to duty can be expected in a short time.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
FHP 23.5	Conduct sanitation and safety inspections.	<b>F</b>	<b>F</b>	<b>F</b>	
FHP 23.6	Conduct occupational health/safety and preventive medical programs and training using the following personnel:  (a) Hospital corpsman.	<b>F</b>	<b>F</b>	<b>F</b>	
FHP 23.8	Conduct pharmacy services requiring the following personnel:  (a) Hospital corpsman.	<b>F</b>	<b>F</b>	<b>F</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
FHP 23.9	<p>Conduct associated administrative maintenance service.</p> <p>(a) Maintain adequate medical supplies for appropriate level health care.</p> <p>(c) Provide patient/casualty administrative services.</p> <p>(d) Perform routine medical administrative services.</p>	<b>F</b>	<b>F</b>	<b>F</b>	
FHP 23.11	<p>Conduct ocular diagnostic and therapeutic services requiring the following personnel (choose as applicable):</p> <p>(a) Hospital corpsman.</p> <p>I, III, IV(L) - Minor services within independent duty corpsman skill level and AMAL limits.</p>	<b>L</b>	<b>L</b>	<b>L</b>	
FHP 23.15	<p>Conduct disease and vector control planning and operations.</p> <p>III, IV(L) - Minor services within independent duty corpsman skill level and AMAL limits.</p> <p>V(L) - Assistance provided by shore facilities.</p>		<b>L</b>	<b>L</b>	<b>L</b>
FHP 23.17	Identify, equip and maintain suitable spaces to provide medical care.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
FHP 23.18	Identify, equip and maintain adequate storage spaces for medical equipment and medical supplies.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
FHP 23.19	<p>Provide medical care, triage and resuscitation commensurate with health care provider credentials using the following personnel:</p> <p>(a) Independent duty corpsman.</p>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
FHP 23.20	<p>Provide obstetrics and gynecological medical care commensurate with health care provider credentials using the following personnel:</p> <p>(a) Independent duty hospital corpsman responsibilities.</p>		<b>F</b>	<b>F</b>	<b>F</b>
<b>FHP 24</b>	<b>PROVIDE FIRST AID ASSISTANCE.</b>				

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
FHP 24.1	Identify, equip and maintain appropriate first aid spaces.	F	F	F	F
FHP 24.2	Train assigned and embarked personnel in first aid, self and buddy aid procedures.		F	F	F
FHP 24.3	Train stretcher-bearers.	F	F	F	F
<b>FHP 25 PROVIDE TRIAGE OF CASUALTIES/PATIENTS.</b>					
FHP 25.1	Identify, equip and maintain suitable triage spaces.	F	F	F	F
FHP 25.2	Train assigned and embarked personnel in triage care.		F	F	F
FHP 25.4	Train designated non-medical personnel to assist in triage management care for chemical biological and radiation (CBR) contamination casualties.		F	F	F
FHP 25.5	Train designated non-medical personnel in CBR casualty decontamination procedures.	F	F	F	F
FHP 25.7	Provide medical treatment for chemical biological radiological casualties.  I, III, IV(L) - Emergency cases where MEDEVAC is not possible or where return to duty can be expected in a short time.  V(L) - Plan and train.	L	L	L	L
<b>FHP 26 PROVIDE MEDICAL AND SURGICAL TREATMENT FOR CASUALTIES/PATIENTS.</b>					
FHP 26.1	Identify, equip and maintain suitable resuscitation spaces.		F	F	F
FHP 26.2	Train assigned and embarked personnel in resuscitation.	F	F	F	F
FHP 26.5	Identify, equip and maintain suitable spaces for emergency minor surgery.	F	F	F	F
<b>FHP 27 PROVIDE MEDICAL, SURGICAL, POST-OPERATIVE AND NURSING CARE FOR CASUALTIES/PATIENTS.</b>		F	F	F	F

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
FHP 27.1	Provide hospital beds (choose as applicable):  (b)Ward.  I, III, IV(L) - For use in emergency cases where MEDEVAC is not possible or where return to duty can be expected short time.	L	L	L	
FHP 27.4	Provide suitable care for the dead.  III, IV(L) - Temporary storage.		L	L	
<b>FHP 29 PROVIDE ROUTINE AND EMERGENCY DENTAL CARE.</b>					
FHP 29.1	Conduct dental sick call.  III, IV(L) - Provide examinations and treatment for minor dental problems as a part of routine sick call.  V(L) - Conduct initial examination and refer patients to a dentist/dental clinic.		L	L	L
<b>FHP 30 PROVIDE DEFINITIVE DENTAL CARE FOR CASUALTIES AND PATIENTS.</b>					
FHP 30.1	Provide restoration treatments and minor oral surgery including tooth extraction.  I(L) - Emergency stabilization.  III, IV(L) - Minor treatment and emergency tooth extraction.  V(L) - Conduct initial examination and refer patients to dentist/dental clinic.	L	L	L	L
<b>FLEET SUPPORT OPERATIONS</b>					
<b>FSO 1 REPAIR AND OVERHAUL SHIPS, AIRCRAFT AND ASSOCIATED EQUIPMENT.</b>					
FSO 1.4	Provide inspection, test, calibration and repair services for:  (k) Test measurement and diagnostic equipment.  III, IV, V(L) - Requirement applies to own ship's equipment only.		L	L	L
<b>FSO 3 PROVIDE SUPPORT SERVICES TO OTHER UNITS.</b>					

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
FSO 3.3	Support aircraft (when assigned).  NOTE: Nonorganic.		<b>F</b>	<b>F</b>	
<b>FSO 4</b>	<b>CONDUCT IN-FLIGHT REFUELING.</b>				
FSO 4.1	Provide day/night in-flight refueling for helicopters.	<b>F/E</b>	<b>F/E</b>	<b>/FE</b>	
<b>FSO 5</b>	<b>CONDUCT TOWING/SEARCH/SALVAGE/RESCUE OPERATIONS.</b>				
FSO 5.1	Conduct towing operations.  NOTE: Conduct towing operations by using off watch personnel or stand down other non-essential functions.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
<b>FSO 6</b>	<b>SUPPORT/CONDUCT SAR OPERATIONS IN A COMBAT/NONCOMBAT ENVIRONMENT.</b>				
FSO 6.1	Support/conduct combat/noncombat SAR operations by fixed or rotary wing aircraft.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
FSO 6.2	Conduct combat/noncombat SAR operations by surface ships.	<b>F</b>	<b>F</b>	<b>F</b>	
FSO 6.4	Recover man overboard.  NOTE: During condition I, search and recovery requires augmentation by searching other battle stations. During condition III, search and recovery requires augmentation from off-watch personnel.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
FSO 6.5	Support/perform plane guard/lifeguard functions.  NOTE: During condition I, search and recovery requires augmentation by searching other battle stations. During condition III, search and recovery requires augmentation from off-watch personnel.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
FSO 6.6	Conduct SAR operations (including operations involving submarine disasters/rescues).  NOTE: During condition I, search and recovery requires augmentation by searching other battle stations. During condition III, search and recovery requires augmentation from off-watch personnel.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
FSO 6.7	Conduct general surveillance.	F	F	F	
FSO 6.8	Acquire and display distress data.	F	F	F	
FSO 6.9	Report situation assessment.	F	F	F	
FSO 6.10	Coordinate SAR operations.	F	F	F	
FSO 6.11	Conduct multi-unit SAR operations.	F	F	F	
<b>FSO 20 PROVIDE FLEET TRAINING SERVICES.</b>					
FSO 20.1	Act as target for submarines.			F	
FSO 20.5	Act as school ship for gunnery training.			F/A	F/A
FSO 20.6	Act as delivery or receiving ship for underway replenishment training.			F/E	
FSO 20.8	Recover exercise torpedoes/drones.			F/E	
FSO 20.67	Act as school ship for ASW training.			F/A	F/A
FSO 20.68	Act as school ship for engineering training.			F/A	F/A
<b>FSO 51 REPAIR OWN UNIT'S FSO-RELATED EQUIPMENT.</b>		L	F	F	F
<b>FSO 55 MAINTAIN READINESS BY PROVIDING FOR TRAINING OF OWN UNIT'S PERSONNEL.</b>			F	F	F
<b>INTELLIGENCE OPERATIONS (INT)</b>					
<b>INT 1 SUPPORT/CONDUCT INTELLIGENCE COLLECTION.</b>					
INT 1.2	Support/conduct acoustic intelligence information collection.	F	F	F	L
INT 1.3	Support/conduct imagery intelligence information collection at short and long range utilizing organic/non-organic, or assigned imagery sensors and onboard imagery processing systems.	F	F	F	L
INT 1.9	Collect signals intelligence information, including communications intelligence and electronic intelligence.	F	F	F	L
INT 1.11	Maintain radar scope photography capability.	F	F	F	L
<b>INT 2 PROVIDE INTELLIGENCE.</b>					
INT 2.1	Maintain intelligence summary plots on air, surface, subsurface activities to include an all-source manual and automated tactical intelligence plot.  V(L) - Plan and train.	L	F	F	F



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
INT 2.2	Evaluate and disseminate intelligence information.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
INT 2.4	Establish and maintain access to service and national intelligence sources to include national theater, and other tactical intelligence automated data sources up to top secret/secret compartmentalized information level for operational intelligence support.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>INT 3</b>	<b>CONDUCT INTELLIGENCE SURVEILLANCE AND RECONNAISSANCE.</b>				
INT 3.2	Plan, direct, coordinate, and conduct overt surveillance and reconnaissance operations.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>INT 4</b>	<b>CONDUCT OCEAN SURVEILLANCE OPERATIONS AGAINST TARGETS OF INTEREST.</b>				
INT 4.1	Detect and locate targets of interest.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
INT 4.2	Classify and identify targets of interest.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
INT 4.3	Track targets of interest.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>INT 5</b>	<b>PROCESS OCEAN SURVEILLANCE INFORMATION.</b>				
INT 5.1	Fuse, integrate and correlate ocean surveillance information with other sources of intelligence information.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>INT 6</b>	<b>CONDUCT SURFACE RECONNAISSANCE.</b>				
INT 6.1	Conduct surface patrols or barriers.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
INT 6.3	Conduct reconnaissance of surface forces.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
INT 6.7	Recognize by sight friendly and enemy aircraft, ships, submarines, and potential naval fire support targets which may be encountered in the expected operating areas.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>INT 17 REPAIR OWN UNITS INTELLIGENCE-RELATED EQUIPMENT.</b>	NOTE: During condition III, full capability provided by on-call/off-watch personnel.  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>INT 19 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S INT CAPABILITIES.</b>	I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.  III, IV, (L) - Man CSOSS watch organization with CSOW/combat systems maintenance supervisor and electronics support supervisor.  V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>INFORMATION OPERATIONS (IO)</b>					
<b>IO 1 CONDUCT ELECTRONIC WARFARE SUPPORT (ES)</b>					
IO 1.1	Search for and intercept electromagnetic and directed energy signals and emissions.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
IO 1.2	Identify C <sup>2</sup> and weapons systems' signals.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 1.3	Identify threat platforms' communications and weapons signal sources.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 1.4	Provide location or targeting information of threat weapons/C <sup>2</sup> /platforms/signal sources.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 1.5	Provide timely threat alert for actions involving electronic attack (EA), electronic protect (EP), EMCON, avoidance, deception and targeting.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 1.6	Conduct ES for self-defense.  IV(L) - ES operator only.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 1.8	Identify and coordinate tactical IO information requirements and disseminate information derived from ES and other sources to composite warfare commander, warfare commanders and naval/combined/joint forces.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>IO 2</b>	<b>CONDUCT EA OPERATIONS.</b>				
IO 2.2	Conduct electronic jamming of target acquisition/target tracking/fire control/missile seeker radars.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
IO 2.3	Conduct electronic jamming of communications/data link/identification systems.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 2.5	Conduct electronic deception of early warning/air search radars.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 2.6	Conduct electronic deception of surface search radars.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 2.7	Conduct electronic deception of target acquisition/target tracking/fire control/missile seeker radars.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 2.8	Conduct electronic deception of communication/data link systems.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>IO 3</b>	<b>CONDUCT EP OPERATIONS.</b>				
IO 3.1	Detect, identify, and protect against electronic jamming of electromagnetically controlled and/or dependent systems.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
IO 3.2	Detect, identify and protect against electronic deception of electromagnetically controlled and/or dependent systems.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>IO 4</b>	<b>PLAN AND IMPLEMENT OPERATIONS SECURITY (OPSEC) MEASURES.</b>				
IO 4.1	Implement appropriate/directed electromagnetic/acoustic EMCON condition.	F	F	F	F
IO 4.2	Transition rapidly from one EMCON condition to another.  V(L) - Plan and train.	F	F	F	F
IO 4.3	Monitor own unit compliance with EMCON condition in effect.  V(L) - Plan and train.	F	F	F	L
IO 4.4	Monitor TF/TG compliance with EMCON condition in effect.  IV(L) - ES operator only.  V(L) - Plan and train.	F	F	L	L
IO 4.9	Manage electromagnetic/acoustic and/or other emissions to minimize mutual interference among friendly systems.  V(L) - Plan and train.	F	F	F	L
IO 4.11	Plan, coordinate and control implementation of OPSEC measures.  V(L) - Plan and train.	F	F	F	L
IO 4.12	Execute OPSEC measures.  V(L) - Plan and train.	F	F	F	L
<b>IO 5</b>	<b>CONDUCT COORDINATED INFORMATION OPERATIONS WITH OTHER FORCES IN SUPPORT OF A JOINT TASK FORCE (JTF)/GROUP.</b>				
IO 5.2	Conduct coordinated IO with other forces in support of a JTF/group/SAG or naval/joint/combined forces.  IV(L) - ES operator only.  V (L) - Plan and train.	F	F	L	L
<b>IO 6</b>	<b>PLAN AND CONDUCT COUNTER-SURVEILLANCE, COUNTER-TARGETING AND MILDEC OPERATIONS.</b>				
IO 6.2	Conduct counter-targeting against air attack.  V(L) - Plan and train.	F	F	F/A	L

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
IO 6.3	Conduct counter-targeting against subsurface attack.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
IO 6.4	Conduct counter-targeting against surface attack.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
IO 6.7	Conduct naval operational deception operations using tactics, operations, exercises or physical means.  V(L) - Plan and train.	<b>F</b>	<b>F/A</b>	<b>F/A</b>	<b>L</b>
IO 6.8	Relocated to IO 25.5.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>IO 14</b>	<b>REPAIR OWN UNIT'S IO EQUIPMENT.</b>  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.  NOTE: During condition III, full capability provided by on-call/off-watch personnel.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>IO 16</b>	<b>CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S IO CAPABILITIES.</b>  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.  III, (L) - Man CSOSS watch organization with CSOOW/combat systems maintenance supervisor and electronics support supervisor.  V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>IO 25 MILITARY DECEPTION (MILDEC)</b>					
IO 25.5	Execute military tactical deception operations using technical means (electronic, acoustic, visual and electro/optical).  V(L) - Plan and train.				
<b>LOGISTICS (LOG)</b>					

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>LOG 1</b>	<b>CONDUCT UNDERWAY REPLENISHMENT.</b>				
LOG 1.12	Replenish other units underway with limited fuel, provisions, munitions, potable and feed water.  NOTE: As needed on an infrequent basis.  V(L) - Plan and train.		<b>F/E</b>	<b>F/E</b>	<b>L</b>
<b>MINE WARFARE (MIW)</b>					
<b>MIW 4</b>	<b>CONDUCT MINE COUNTERMEASURES (MCM).</b>				
MIW 4.1	Detect, classify and plot sea mines.  I, III(L) - Visually or using installed sonar, detect mines for self-defense mine avoidance.  IV, V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>MIW 6</b>	<b>CONDUCT MAGNETIC SILENCING (DEGAUSSING, DEPERMING, ETC.).</b>				
MIW 6.7	Maintain magnetic signature limits.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
MIW 6.8	Maintain own unit's degaussing readiness.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>MIW 13</b>	<b>REPAIR OWN UNIT'S MIW EQUIPMENT.</b>	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
	NOTE: During condition III, full capability provided by on-call/off-watch personnel.  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.				
<b>MOBILITY (MOB)</b>					
<b>MOB 1</b>	<b>OPERATE SHIP'S PROPULSION PLANT TO DESIGNED CAPABILITY.</b>				
MOB 1.1	Operate ship's propulsion plant at full power.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
MOB 1.2	Operate ship's propulsion plant with split plant operations.	<b>F</b>	<b>F</b>	<b>F</b>	
MOB 1.5	Operate at sustained SG/SAG/URG/amphibious force speeds.	<b>F</b>	<b>F</b>	<b>F</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOB 1.6	Maintain necessary machinery redundancy to enhance survival in high threat areas.	F	F	F	F
MOB 1.7	Transit at high speed.	F	F	F	
<b>MOB 3</b>	<b>PREVENT AND CONTROL DAMAGE.</b>				
MOB 3.1	Control fire, flooding, electrical, structural, propulsion and hull/airframe casualties.	F	F/E	F/E	F/E
MOB 3.2	Counter and control CBR contaminants/agents.	F	F/E	F/E	F/E
MOB 3.3	Maintain security against unfriendly acts.	F	F	F	F
MOB 3.5	Provide damage control security/surveillance.	F	F	F	F
MOB 3.8	Provide emergency breathing devices per ship's allowance.	F	F	F	F
<b>MOB 5</b>	<b>MANEUVER IN FORMATION.</b>	F	F	F	
<b>MOB 6</b>	<b>REFUEL IN THE AIR.</b>				
MOB 6.3	Deliver fuel in day/night ship-to-air refueling.	F/E	F/E	F/E	
<b>MOB 7</b>	<b>PERFORM SEAMANSHIP, AIRMANSHIP, AND NAVIGATION TASKS.</b>				
MOB 7.1	Navigate under all conditions of geographic location, weather and visibility.	F	F/E	F/E	
MOB 7.2	Conduct precision anchoring.	F/E	F/E	F/E	
	NOTE: During condition III, full capability provided by on-call/off-watch personnel.				



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOB 7.3	Get underway, moor, anchor and sortie with duty section in a safe manner.  V(L) - Deployed, duty section fully capable. Not deployed, recall of personnel is required.				L/E
MOB 7.5	Utilize programmed evasive steering.  V(L) - Plan and train.	F	F	L	L
MOB 7.6	Abandon/scuttle ship rapidly.  III, IV, V(L) - Plan and train.	F	L	L	L
MOB 7.7	Provide life boat/raft capacity per unit's allowance.	F	F	F	F
MOB 7.8	Tow or be towed (towing engine not required).  NOTE: I(L) - Requires securing personnel from other battle stations.	F/E	F/E	F/E	
MOB 7.9	Operate day and night and under all weather conditions.	F	F	F	
MOB 7.10	Conduct undetected transits.	F	F	F	
MOB 7.15	Operate in a chemically contaminated environment.  III, IV, V(L) - Plan and train.	F	L	L	L
MOB 7.16	Recover man overboard (shipboard, boat or helicopter).  NOTE: During condition I, requires augmentation by securing other battle stations. During condition III, requires augmentation from off-watch personnel.	F/E	F/E	F/E	F
<b>MOB 10 REPLENISH AT SEA.</b>					
MOB 10.1	Receive vertical replenishment.		F/E	F/E	
MOB 10.2	Receive fuel while underway (alongside method).		F/E	F/E	
MOB 10.3	Receive munitions and provisions while underway.		F/E	F/E	
MOB 10.4	Receive potable and/or feed water while underway.		F/E	F/E	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOB 10.5	Receive carrier onboard delivery/vertical onboard delivery (VOD) aircraft.  NOTE: VOD only.		<b>F/E</b>	<b>F/E</b>	
MOB 10.6	Receive fuel while underway (astern method).		<b>F/E</b>	<b>F/E</b>	
<b>MOB 12</b>	<b>MAINTAIN THE HEALTH AND WELL BEING OF THE CREW.</b>				
MOB 12.1	Ensure all phases of food service operations are conducted consistent with approved sanitary procedures and standards.  I(L) - Battle messing. Requires securing food distribution personnel from condition I stations at CO's discretion.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.2	Ensure the operation of the potable water system in a manner consistent with approved sanitary procedures and standards.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.3	Monitor and/or maintain the environment to ensure the protection of personnel from overexposure to hazardous levels of radiation, temperature, noise, vibration and toxic substances per current instructions.		<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.5	Monitor the health and well being of the crew to ensure that habitability is consistent with approved habitability procedures and standards.		<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.6	Ensure the operation and maintenance of all phases of shipboard environmental protection systems do not create a health hazard and are consistent with other naval directives pertaining to the prevention of pollution of the environment.		<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.8	Provide individual protective clothing and equipment to sufficiently protect shipboard personnel identified being at risk in a CBR-contaminated environment.  III, IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOB 12.9	Provide individual protective clothing and equipment to sufficiently protect assigned medical personnel aboard a ship at risk in a CBR-contaminated environment.  III, IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
MOB 12.12	Provide antidotes to ship's company, which will counteract the effects caused by a CBR-contaminated environment.  III, IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
MOB 12.13	Train designated medical supervisors and non-medical personnel to detect CBR-contaminated casualties.		<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.14	Train designated non-medical personnel to decontaminate CBR casualties.		<b>F</b>	<b>F</b>	<b>F</b>
MOB 12.15	Identify, supply and maintain decontamination stations.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>MOB 17</b>	<b>PERFORM ORGANIZATIONAL LEVEL REPAIRS TO OWN UNIT'S MOB EQUIPMENT.</b>  NOTE: During condition III, full capability provided by on-call/off-watch personnel.  I(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I stations.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>MOB 18</b>	<b>CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S MOB CAPABILITIES.</b>  NOTE: During condition I, emergency repairs to equipment critical to ship's mission. During conditions III and IV, immediate responses by existing watch standers with complete restoration supported by augmentation from off-watch personnel.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>MISSIONS OF STATE (MOS)</b>					
<b>MOS 1</b>	<b>PERFORM NAVAL DIPLOMATIC PRESENCE OPERATIONS.</b>				
MOS 1.1	Establish a sovereign, mobile sea base in a forward area.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOS 1.4	Conduct foreign port calls.				<b>F</b>
MOS 1.5	Conduct force/unit tours for foreign citizens during port calls.				<b>F/A</b>
MOS 1.6	Conduct receptions for foreign dignitaries during port calls.				<b>F/A</b>
MOS 1.7	Provide volunteers for small project assistance during port calls.				<b>F/A</b>
MOS 1.8	Participate in military exercises with allied nations.		<b>F</b>	<b>F/A</b>	<b>F/A</b>
MOS 1.9	Participate in military exercises with non-allied nations.		<b>F</b>	<b>F/A</b>	<b>F/A</b>
MOS 1.10	Participate in or provide participants for foreign/allied commemorative or ceremonial events.			<b>F/E</b>	<b>F/E</b>
MOS 1.11	Provide lift of opportunity for foreign or national diplomatic material.  III, IV, V(L) - Small quantities that do not interfere with the regular combat capabilities or logistics load.		<b>L</b>	<b>L</b>	<b>L</b>
<b>MOS 2 PROVIDE HUMANITARIAN ASSISTANCE.</b>					
MOS 2.1	Deliver relief material.  III, IV, V(L) - Small quantities that do not interfere with the regular combat capabilities or logistics load.		<b>L</b>	<b>L</b>	
MOS 2.2	Provide emergency flooding/fire fighting assistance.  I(L)- Requires securing personnel from other battle stations.	<b>L/E</b>	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>
MOS 2.4	Provide disaster assistance and evacuation.  I(L) - Requires securing personnel from other battle stations.	<b>L/E</b>	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>
MOS 2.5	Clear and repair utilities and facilities damaged by natural disaster, fire, and civil disturbance; decontaminate CBR effects.				<b>F/E</b>
MOS 2.9	Plan, direct and coordinate disaster assistance evacuation.	<b>F</b>	<b>F/A</b>	<b>F/A</b>	<b>F/A</b>
MOS 2.10	Support/provide for the evacuation of noncombatant personnel in areas of civil or international crisis.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOS 2.11	Support/conduct helicopter/boat evacuation of noncombatant personnel as directed by higher authority from areas of civil or international crisis.	F/E	F/E	F/E	F/E
MOS 2.12	Provide for embarkation, identification and processing of evacuees.  I(L) - Requires securing personnel from other battle stations.	L	F/A	F/A	F/A
MOS 2.13	Provide care, feeding and berthing of evacuees.  I(L) - Requires securing personnel from other battle stations. Battle messing only.	L	F/E	F/E	F/E
MOS 2.14	Provide transportation for evacuees to designated safe havens or onward processing centers.  I(L) - Helo transport requires securing personnel from other battle stations.	L/E	F/E	F/E	F/E
MOS 2.15	Plan/direct the evacuation of non-combat personnel in areas of civil or international crisis in both a permissive and non-permissive environment (including joint/combined operations).	F/E	F/E	F/E	F/E
<b>MOS 3 PERFORM PEACEKEEPING.</b>					
MOS 3.1	Provide C <sup>2</sup> for a joint/allied peacekeeping force.  I, III(L) - Embarked staff detachments share facilities with ship's company. Full, simultaneous composite warfare capabilities may be degraded.  V(L) - Plan and train.	L	L	L	L
MOS 3.2	Provide logistics support for a joint/allied peacekeeping force.	F/E	F/E	F/E	F/E
MOS 3.3	Provide direct participation in a joint/allied peacekeeping force within a foreign country/region.  IV, V(L) - Plan and train.	F	F	L	L
<b>MOS 4 PERFORM INTERDICTION.</b>					
MOS 4.1	Conduct naval blockade.  IV, V(L) - Plan and train.	F	F/A	L	L

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
MOS 4.2	Conduct quarantine operations.  IV, V(L) - Plan and train.	F	F/A	L	L
MOS 4.3	Enforce sanction enforcement operations.  IV, V(L) - Plan and train.	F	F/A	L	L
MOS 4.4	Conduct maritime interception operations (MIO) and/or visit, board, search and seizure (VBSS) operations with naval/combined/joint forces.  NOTE: CG is capable of initial MIO/VBSS operations. However, ship's unable to maintain sustained operations or security team without support of MIW detachment.  I(L) - Requires standing down selected watch stations, unless MIO detachment is embarked.  IV, V(L) - Plan and train.	L/E	F/E	F/E	L
<b>MOS 5</b>	<b>PROVIDE FOREIGN INTERNAL DEFENSE (FID) ASSISTANCE.</b>				
MOS 5.4	Conduct tactical operations in close cooperation with the host nation that focus on neutralizing and destroying the insurgent threat in the maritime environment.  V(L) - Plan and train.	F	F/A	L	L
<b>MOS 8</b>	<b>PROVIDE ANTI-TERRORISM (AT) ASSISTANCE.</b>				
MOS 8.1	Ensure that the physical security of important persons, facilities and events meets acceptable standards.		F/A	F/A	F/A
MOS 8.2	Provide training and advice on how to reduce vulnerability to terrorism and other threats, particularly in the maritime environment.		F	F	F
<b>MOS 10</b>	<b>CONDUCT SPECIAL ACTIVITIES AS GOVERNED BY EXECUTIVE ORDER 12333 AND PER A PRESIDENTIAL FINDING AND CONGRESSIONAL OVERSIGHT.</b>  I, III(L) - Provide covering action for Marine or special operation capable forces.  IV, V(L) - Plan and train.	L	L	L	L

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>NONCOMBAT OPERATIONS (NCO)</b>					
<b>NCO 2</b>	<b>PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.</b>				
NCO 2.1	Provide supply support services.  NOTE: Supply supports services are supported by a minimum of seven store keeper (SK) manpower requirements. As the supply department of the future progresses, SK manpower requirements will be redefined.  I(L) - Provide emergency supply support only.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.2	Provide clerical services.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.3	Provide disbursing services.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.4	Provide post office services.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.5	Provide messing facilities.  I(L) - Battle messing requires securing food distribution personnel from condition I stations at CO's discretion.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.6	Provide ship's service facilities.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.7	Provide inventory and custodial services.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.8	Provide personnel for living space maintenance.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.9	Provide personnel for area command security.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 2.11	Provide personnel for fuels support.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>NCO 3</b>	<b>PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.</b>				
NCO 3.1	Provide organizational level preventive maintenance.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 3.2	Provide organizational level CM.  NOTE: During condition III, full capability provided by on-call/off-watch personnel.  I(L) - Emergency repairs to equipment critical to ship's or embarked staff's missions. May require standing down selected personnel from their condition I stations.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
NCO 3.3	Provide small arms storage area.	F	F	F	F
NCO 3.4	Maintain preservation and cleanliness of topside and internal spaces.		F	F	F
NCO 3.5	Provide for proper storage, handling, use and transfer of hazardous materials.		F	F	F
<b>NCO 4</b>	<b>PROVIDE CLOSED-CIRCUIT TELEVISION SUPPORT FOR OWN UNIT.</b>		F	F	F
<b>NCO 5</b>	<b>CONDUCT METEOROLOGICAL, OCEANOGRAPHIC (METOC) HYDROGRAPHIC AND/OR BATHYMETRIC COLLECTION OPERATIONS OR SURVEYS.</b>				
NCO 5.1	Collect and disseminate meteorological information.	F	F	F	F
NCO 5.2	Collect and disseminate hydrographic information.  NOTE: Depth only.	F	F	F	
NCO 5.3	Collect and disseminate oceanographic information including bathythermograph operations.	F	F	F	
<b>NCO 7</b>	<b>PROVIDE SPECIAL TECHNICAL RESEARCH.</b>				
NCO 7.1	Serve as a platform for special technical research operations.		F	F	F
NCO 7.2	Conduct special technical research operations.  III, IV, V(L) - Embarkation of technical support personnel required.		L	L	L
<b>NCO 8</b>	<b>SERVE AS A PLATFORM FOR OPERATIONAL TEST AND EVALUATION OF SYSTEMS, EQUIPMENT, AND TACTICS.</b>				
NCO 8.1	Provide technical assistance for installed test and evaluation equipment.		F	F	F
NCO 8.2	Perform the test and evaluation functions set forth in the appropriate test plans.  III, IV, V(L) - Support projects as required with ship's company as long as primary mission areas are not degraded.		L/A	L/A	L/A



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
NCO 8.3	Perform the evaluation functions set forth in appropriate tactical memorandums.  III, IV, V(L) - Support projects as required with ship's company as long as primary mission areas are not degraded.		L/A	L/A	L/A
NCO 8.4	Provide range safety as set forth in appropriate test plans during missile operational tests.		F	F	
NCO 8.5	Collect Satellite Missile Tracking Program (SATRACK) and telemetry data in support of missile operational test.  III, IV, V(L) - Support projects as required with ship's company as long as primary mission areas are not degraded.		L/A	L/A	L/A
<b>NCO 10 NCO 10 PROVIDE EMERGENCY/DISASTER ASSISTANCE.</b>					
NCO 10.1	Provide emergency flooding/fire fighting assistance to another unit.  NOTE: I(L) - Requires securing personnel from other battle stations.	L/E	F/E	F/E	F/E
NCO 10.4	Provide disaster assistance and evacuation.  I(L) - Requires securing personnel from other battle stations.	L/E	F/E	F/E	F/E
<b>NCO 11 SUPPORT/PROVIDE FOR THE EVACUATION OF NONCOMBATANT PERSONNEL IN AREAS OF CIVIL OR INTERNATIONAL CRISIS.</b>					
NCO 11.1	Support/conduct helicopter/boat evacuation of noncombatant personnel as directed by higher authority from areas of civil or international crisis.	L	F/A	F/A	F/A
NCO 11.2	Provide for embarkation, identification and processing of evacuees.  I(L) - Requires securing personnel from other battle stations.	L/E	F/E	F/E	F/E
NCO 11.3	Provide care, feeding and berthing of evacuees.  I(L) - Requires securing personnel from other battle stations.	L/E	F/E	F/E	F/E

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
NCO 11.4	Provide transportation for evacuees to designated safe havens or onward processing centers.  NOTE: Helo transport requires securing personnel from other battle stations or use of off-watch personnel.	L/E	F/E	F/E	F/E
<b>NCO 19 CONDUCT MARITIME LAW ENFORCEMENT OPERATIONS.</b>					
NCO 19.1	Detect and identify non-combatant vessels.	F	F	F	F
NCO 19.2	Conduct boarding and inspection of noncombatant vessels.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L/E	F/E	F/E	
NCO 19.3	Provide assistance to other law enforcement forces.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L	F/E	F/E	F/E
NCO 19.4	Provide surveillance and protection of maritime resources.	F	F	F	
NCO 19.6	Conduct seizure of noncombatant vessels.  I(L) - Requires standing down selected watch stations, unless law enforcement.	L	F/E	F/E	
NCO 19.9	Conduct drug traffic suppression and interdiction operations.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L	F/E	F/E	
NCO 19.13	Support enforcement of fisheries law and treaties.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L	F/E	F/E	
NCO 19.14	Support enforcement of offshore mining and gas/oil drilling laws.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L	F/E	F/E	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
NCO 19.15	Support drug traffic suppression and interdiction operations.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L	F/E	F/E	
NCO 19.16	Support illegal entry suppression operations.  I(L) - Requires standing down selected watch stations, unless law enforcement detachment is embarked.	L	F/E	F/E	
<b>NCO 24 SUPPORT/CONDUCT ROTARY WING AIRCRAFT OPERATIONS.</b>					
NCO 24.1	Support/conduct day rotary wing aircraft flight operations.	F/E	F/E	F/E	
NCO 24.2	Support/conduct night rotary wing aircraft flight operations.	F/E	F/E	F/E	
NCO 24.3	Support/conduct rotary wing aircraft flight operations during all EMCON conditions.	F/E	F/E	F/E	
NCO 24.4	Support/conduct rotary wing aircraft hot and cold refueling operations.	F/E	F/E	F/E	
NCO 24.5	Provide electrical power for rotary wing aircraft starting, testing, etc.	F/E	F/E	F/E	
NCO 24.6	Provide ground handling equipment for loading and spotting rotary wing aircraft.	F/E	F/E	F/E	
<b>NCO 25 CONDUCT MARINE ENVIRONMENTAL PROTECTION.</b>					
NCO 25.1	Detect oil or hazardous chemical spill.	F	F	F	F
NCO 25.2	Report spills to proper authority.	F	F	F	F
NCO 25.3	Conduct pollution abatement operations.	F	F	F	F
<b>NCO 32 CONDUCT COUNTERNARCOTIC AND OTHER LAW ENFORCEMENT SUPPORT OPERATIONS IN CONJUNCTION WITH OTHER FORCES.</b>					
NCO 32.1	Conduct/support operations with Coast Guard units.	F	F	F	
NCO 32.2	Conduct/support operations with other Federal law enforcement agencies.	F	F	F	
NCO 32.4	Conduct operations with other national governments.	F	F	F	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>NCO 33</b>	<b>SUPPORT/PROVIDE COUNTERNARCOTICS AND OTHER LAW ENFORCEMENT SUPPORT PATROL OF A FIXED GEOGRAPHIC AREA.</b>				
	NCO 33.1 Operate as chokepoint patrol unit.	<b>F</b>	<b>F</b>	<b>F/A</b>	
	NCO 33.2 Operate as an open ocean patrol unit.	<b>F</b>	<b>F</b>	<b>F/A</b>	
<b>NCO 34</b>	<b>IN SUPPORT OF COUNTERNARCOTICS AND OTHER LAW ENFORCEMENT OPERATIONS, DETECT AND MONITOR SUSPECT SURFACE CONTACTS.</b>				
	NCO 34.1 Detect and monitor surface contacts with radar.	<b>F</b>	<b>F</b>	<b>F</b>	
	NCO 34.2 Detect and monitor surface contacts visually.	<b>F</b>	<b>F</b>	<b>F</b>	
	NCO 34.3 Detect and monitor surface contacts with infrared equipment.	<b>F</b>	<b>F</b>	<b>F</b>	
	NCO 34.4 Detect and monitor surface contacts with electronic surveillance methods.	<b>F</b>	<b>F</b>	<b>F</b>	
	NCO 34.5 Detect and monitor surface contacts with passive sonar.	<b>F</b>	<b>F</b>	<b>F/A</b>	
	NCO 34.6 Detect and monitor surface contacts with active sonar.	<b>F</b>	<b>F</b>	<b>F/A</b>	
	NCO 34.7 Detect and monitor surface contacts with surveillance towed arrays.	<b>F</b>	<b>F</b>	<b>F/A</b>	
	NOTE: All except CGs 47-51 (until so equipped).				
<b>NCO 36</b>	<b>IN SUPPORT OF COUNTERNARCOTICS AND OTHER LAW ENFORCEMENT OPERATIONS, DETECT AND MONITOR SUSPECT AIR CONTACTS.</b>				
	NCO 36.1 Detect and monitor air contacts with radar.	<b>F</b>	<b>F</b>	<b>F</b>	
	NCO 36.2 Detect and monitor air contacts visually.	<b>F</b>	<b>F</b>	<b>F</b>	
	NCO 36.3 Detect and monitor air contacts by electronic surveillance measures.	<b>F</b>	<b>F</b>	<b>F</b>	
<b>NCO 37</b>	<b>EMBARK AND SUPPORT LAW ENFORCEMENT DETACHMENTS.</b>	<b>F</b>	<b>F/A</b>	<b>F/A</b>	<b>F/A</b>
<b>NCO 38</b>	<b>RECEIVE, DISPLAY AND MAINTAIN COUNTER NARCOTIC INTELLIGENCE DATA.</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F/A</b>
<b>NCO 45</b>	<b>PROVIDE AT/DEFENSE.</b>				

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
NCO 45.1	Assimilate and disseminate intelligence on terrorist activities directed at U.S. Navy installations, ships and personnel.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.2	Request and/or provide a threat assessment.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.3	Declare general warnings of possible terrorist activity.	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.4	Anticipate and provide defenses against terrorist activities directed at ships, installations, facilities and personnel.  (a) Include provisions for barriers, access control, surveillance, intruder detection, and electronic security systems. (b) Train and exercise the unit's AT response force to include tactical room/space entry. (c) Implement local FPCON measures. (d) Implement unit terrorist incident response plan. (e) Operate electronic security systems (ESS). (f) Operate duress systems. (g) Train and exercise designated marksman for defense of HVA, boat crews and security personnel.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.5	Conduct screening of non-assigned personnel and materials entering the unit or facility using:  (a) Logical means (validation of identification, documentation, personal recognition, etc.). (b) Physical means (searches, metal detection, explosive detection, etc.).		<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.6	Provide waterside barriers/patrols during port calls and anchorage.  NOTE: May require rigid-hull inflatable boats (RHIB) and crews. May require augmentation by Maritime Expeditionary Security Force (MESF).		<b>F/E</b>	<b>F/E</b>	<b>F/E</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
NCO 45.7	Determine, maintain and enforce port, harbor and anchorage limited access areas.  NOTE: May require rigid-hull RHIB and crews. May require augmentation by MESF.		<b>F/E</b>	<b>F/E</b>	<b>F/E</b>
NCO 45.8	Conduct surveillance and interdiction operations of swimmers/swimmer delivery vehicles.  NOTE: May require RHIB and crews. May require augmentation by MESF.				<b>F</b>
NCO 45.9	Provide AT information and voluntary training to dependents visiting units in foreign ports/locations.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.10	Publish/disseminate AT defense instructions that include provisions for appropriate perimeter barriers, access control, surveillance and intruder detection, AT response force including a crisis action team, and evacuation.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.11	Conduct hostage survival and code of conduct training.		<b>F</b>	<b>F</b>	<b>F</b>
NCO 45.12	Direct, conduct and assess unit AT exercises consistent with potential and/or actual threat environment.		<b>F</b>	<b>F</b>	<b>F</b>
<b>STRIKE WARFARE (STW)</b>					
<b>STW 3</b>	<b>SUPPORT/CONDUCT MULTIPLE CRUISE MISSILE STRIKES EITHER INDEPENDENTLY OR IN SUPPORT OF OTHER STRIKE FORCES.</b>				
STW 3.2	Support/conduct conventionally armed cruise missile strikes.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
STW 3.3	Provide navigation/targeting data to missile fire control and guidance subsystems with specified accuracy.  IV, I(V) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>STW 12 REPAIR OWN UNIT'S STW EQUIPMENT.</b>		<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.</p>					
<b>STW 13 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S STW CAPABILITIES.</b>		<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
<p>I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each space.</p> <p>III, I(L) - Man CSOSS watch organization with CSOOW/combat systems maintenance supervisor and electronics support supervisor.</p> <p>V(L) - Plan and train.</p>					
<b>SURFACE WARFARE (SUW)</b>					
<b>SUW 1 USING ANTISURFACE ARMAMENTS, ENGAGE SURFACE THREATS.</b>					
SUW 1.2	<p>Engage surface ships with medium-range cruise missiles.</p> <p>NOTES: Harpoon engagement planner not a dedicated watch station. Engagement planner or other CIC station shift to planning as required and relived by an off watch augmentee.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F/A</b>	<b>L</b>	<b>L</b>
SUW 1.4	<p>Engage surface ships with major caliber gunfire (e.g., 5"/54).</p> <p>III(L) - Gun engagement with one of two guns require manning of GFCS console and EP2 operators.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
SUW 1.6	Engage surface ships with major caliber (cal.) gunfire (e.g., 25mm, 20mm, .50 cal.).  NOTE: Require securing personnel from other battle stations.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L</b>	<b>L</b>
SUW 1.7	Illuminate surface ships with guns.  III(L) - III(L) - Gun engagement with one of two guns require manning of GFCS console and EP2 operators. Magazine partially manned by off-watch/on-call personnel.  IV, V(L) - Plan and train.	<b>F</b>	<b>L/E</b>	<b>L</b>	<b>L</b>
SUW 1.8	Engage surface ships with medium-range missiles.  III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Requires manning of TAO, combat system coordinator, missile systems supervisor and AW coordinator.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
SUW 1.9	Engage surface ships with small arms gunfire.  NOTE: Requires securing personnel from other battle stations.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L</b>	<b>L</b>
SUW 1.10	Conduct close-in surface self-defense using crew operated machine guns (i.e., 25mm, 20mm, .50 cal, .30 cal).  NOTE: Man self-defense weapons by using off watch personnel or stand down other non-essential functions.  V, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L</b>	<b>L</b>



<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
SUW 1.11	<p>Employ self-defense torpedo countermeasures using:</p> <p>(a) Nixie. (zz) Other - SQQ-89 torpedo alertment upgrade (upon installation).</p> <p>NOTE: Streaming and retrieval of Nixie performed by standing down other condition I watch stations or using off-watch personnel during condition III.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 1.12	<p>Plan/direct engagement of surface threats.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 1.14	<p>Direct embarked organic, or non-organic armed helo to engage surface ships.</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 2</b>	<b>ENGAGE SURFACE TARGETS IN COOPERATION WITH OTHER FORCES.</b>				
SUW 2.1	<p>Conduct SUW as a member of SG, SAG, URG or amphibious force (e.g., CSG, expeditionary SG, surface SG, amphibious task unit (ATU), amphibious task group (ATG), amphibious task force (ATF)).</p> <p>IV, V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 2.2	<p>Conduct SUW to support surface forces.</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 2.3	<p>Engage surface targets with assigned anti-surface sector.</p> <p>III(L) - Gun engagement with one of two guns require manning of GFCS console and EP2 operators.</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
SUW 2.4	<p>Operate in coordination with land and sea based air forces in conducting long-range surface actions.</p> <p>V(L) - Plan and train.</p>	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>

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SUW 2.5	Plan/direct engagement of surface targets during group operations by surface, subsurface and/or air assets or in coordination with naval/joint/combined forces.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 3 PROVIDE SUW DEFENSE OF A GEOGRAPHICAL AREA (E.G., ASSIGNED AO, BARRIER) INDEPENDNTLY OR IN COOPERATION WITH OTHER FORCES.</b>					
SUW 3.1	Provide SUW defense of a geographical area.  III(L) - One of two launchers manned. Maximum use of automated engagement management systems. Missile engagements require manning of TAO, combat systems coordinator, missile systems supervisor and surface/subsurface warfare coordinator. Gun engagement using one of two guns requires manning of GFCS console an EP2 operator.  IV, V(L) - Plan and train.	<b>F</b>	<b>L</b>	<b>L</b>	<b>L</b>
<b>SUW 4 DETECT, IDENTIFY, LOCALIZE AND TRACK SURFACE SHIP TARGETS.</b>					
SUW 4.1	Detect, localize and track surface contacts with radar.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
SUW 4.2	Detect, localize classify and track surface contacts with passive sonar.  IV(L) - One SQS-53 console only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 4.3	Detect, localize and track surface contacts with active sonar.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
SUW 4.4	Detect, identify, classify and track surface contacts visually.	<b>F</b>	<b>F</b>	<b>F</b>	
SUW 4.5	Detect, identify and track surface contacts with infrared equipment.	<b>F</b>	<b>F</b>	<b>F</b>	

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
SUW 4.6	Detect, identify classify and track surface contacts by ESM.  NOTE: During condition III, EW supervisor (Aegis console operator) and ES operator provided full capability. Location and targeting requires using cross fixes.  IV(L) - ES operator only.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 4.7	Identify surface contacts.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
SUW 4.9	Detect, localize, classify and track surface contacts with tactical towed arrays.  NOTE: TMA team requires augmentation from off-watch personnel. Only applies to CG's with SQR-19 or AN/SQQ-89 A (V) 15 Multi-Function Towed Array (MFTA).  V(L) - Plan and train.	<b>F</b>	<b>F/E</b>	<b>F/E</b>	<b>L</b>
SUW 4.13	Detect, identify and track contacts with night vision goggles.  I, III(L) - Night vision goggles are available to bridge watch team.  IV, V(L) - Plan and train.	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
SUW 4.14	Plan/direct detection, identification, localization, classification and tracking of surface ship targets.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

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<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
SUW 4.15	Detect, localize, classify and track surface contacts assisted by real time acoustic analysis.  NOTE: Man TMA team with off-watch personnel or stand down other non-essential personnel.  V(L) - Plan and train.	<b>F</b>	<b>F/E</b>	<b>F/E</b>	<b>L</b>
<b>SUW 5</b>	<b>CONDUCT ACOUSTIC WARFARE AGAINST SURFACE CONTACTS.</b>				
SUW 5.1	Employ acoustic warfare support measures against surface contacts.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 5.2	Employ ACM against surface contact.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 5.4	Plan/direct employment of advanced conventional standoff missile (ACSM), ACM and or ACCM against surface contacts.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 6</b>	<b>DISENGAGE, EVADE AND AVOID SURFACE ATTACK.</b>				
SUW 6.1	Employ countermeasures.  (a) Surface decoys. (b) Lighting configuration. (c) Hull markings.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
SUW 6.2	Employ evasion techniques.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
SUW 6.3	Employ EMCON procedures.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
SUW 6.4	Detect, identify and track targets to perform contact avoidance using ESM or radio direction finding/combataction direction finding/outboard.  IV, V(L) - ES operator only.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
SUW 6.5	Plan/direct disengagement, evasion and avoidance of surface attack.  IV, V(L) - Plan and train	<b>F</b>	<b>F</b>	<b>F</b>	<b>L</b>
<b>SUW 8</b>	<b>PROVIDE AIR OPERATIONS TO SUPPORT SURFACE ATTACKS.</b>				
SUW 8.1	Launch fixed and/or rotary wing aircraft.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 8.2	Recover fixed and/or rotary wing aircraft.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 8.5	Provide conventional ordnance within required aircraft turnaround times.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	
SUW 8.6	Conduct air operations during all EMCON conditions.	<b>F/E</b>	<b>F/E</b>	<b>L/E</b>	
SUW 8.8	Control aircraft under all conditions of active jamming.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
SUW 8.9	Load/unload ordnance within required aircraft turnaround times.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L/E</b>	
SUW 8.10	Provide air strike control to direct or assist attack aircraft.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 8.11	Conduct PRCA for aircraft under all weather conditions.	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>	<b>F/E</b>
SUW 8.12	Plan/direct air operations to support surface attacks.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
SUW 8.13	Control fixed wing rotary wing SUW aircraft during coordinated search or attack operations including OTH-targeting (OTH-T).  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 8.14	Render safe hazardous explosive ordnance during flight operations and ordnance loading/unloading evolutions.  NOTE: Ships force not certified for aviation ordnance handling. Function performed by air detachment personnel.  IV, V(L) - Plan and train.	<b>F/E</b>	<b>F/E</b>	<b>L/E</b>	
SUW 8.15	Provide air strike control to detect or assist naval, combined or joint attack aircraft.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 9</b>	<b>ATTACK SURFACE SHIPS USING AIR-LAUNCHED ARMAMENT.</b>				
SUW 9.11	Plan/direct attack on surface ships using air-launched armament.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 10</b>	<b>CONDUCT AIRBORNE OPERATIONS TO SUPPORT SURFACE ATTACK OPERATIONS.</b>				
SUW 10.5	Provide OTH-T information to support air SUW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 10.6	Plan/direct airborne operations to support group or naval/joint/combined SUW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 11</b>	<b>PERFORM DUTIES OF ACU FOR AIRCRAFT INVOLVED IN SUW OPERATIONS.</b>				
SUW 11.1	Perform aircraft control for aircraft involved in SUW operations.  V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>F/A</b>	<b>L</b>
SUW 11.2	Plan/direct aircraft control for aircraft involved in SUW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

<b>CG 47 CLASS</b>		<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b>SUW 12</b>	<b>SUPPORT/CONDUCT ESCORTING AND INDEPENDENT SUW OPERATIONS.</b>				
SUW 12.1	Conduct SUW operations while escorting a convoy and/or URG.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 12.2	Conduct SUW operations while escorting an amphibious force (e.g., ATU, ATG, ATF).  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 12.3	Conduct independent SUW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 12.4	Plan/direct independent SUW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
SUW 12.5	Plan/direct SUW while escorting a convoy, URG and/or amphibious force.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 13</b>	<b>CONDUCT PREATTACK DECEPTION IN SUPPORT OF SUW OPERATIONS.</b>				
SUW 13.1	Perform pre-attack deception in support of SUW operations.  IV, V(L) - Plan and train.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>
<b>SUW 14</b>	<b>REPAIR OWN UNIT'S SUW EQUIPMENT.</b>  NOTE: During condition III, full capability provided by on-call/off-watch personnel.  I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system space manned with at least one technician in each space.	<b>L</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>SUW 16</b>	<b>PERFORM SUW BDA.</b>				
SUW 16.1	Perform SUW BDA.	<b>F</b>	<b>F</b>	<b>L</b>	<b>L</b>

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CG 47 CLASS	I	III	IV	V
<p><b>SUW 17 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S SUW CAPABILITES.</b></p> <p>I(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least on technician in each space.</p> <p>III, IV(L) - Man CSOSS watch organization with CSOOW/combat systems maintenance supervisor and electronics support supervisor.</p> <p>IV, V(L) - Plan and train.</p>	L	L	L	