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OPNAV INSTRUCTION 3501.34F

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES AND PROJECTED
OPERATIONAL ENVIRONMENT FOR AMPHIBIOUS TRANSPORT DOCK
(LPD) 4 (AUSTIN) CLASS SHIPS

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

Encl: (1) Projected Operational Environment (POE) for LPD 4
(AUSTIN) Class Amphibious Transport Dock Ships
(2) Required Operational Capabilities (ROC) for LPD 4
(AUSTIN) Class Amphibious Transport Dock Ships

1. Purpose. This issues the required operational capabilities (ROC) and the projected operational environment (POE) for amphibious transport dock (LPD) 4 (AUSTIN) class ships. This instruction is being reissued with a new date, updated version and signature authority to meet Chief of Naval Operations' age requirement for Office of the Chief of Naval Operations (OPNAV) instructions.

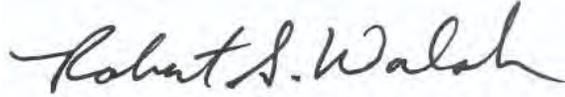
2. Cancellation. OPNAVINST F3501.34E.

3. Discussion. Enclosures (1) and (2) have been prepared per reference (a). The ROC and POE provide the necessary details to describe the mission areas, environment, and operational capabilities for which the LPD 4 class was designed and organized as required by reference (a). This instruction provides resource agencies information concerning LPD 4 class mission requirements, capabilities, and the types and locations of expected operations. Together, the ROC and POE establish tasking that produces a measurable workload used to compute manpower requirements for ship manpower documents. Enclosure (2) may be used to determine specific mission area M-ratings reported under reference (b).

4. Action. Last ship in class scheduled for decommissioning in 2014; no further action required.

OPNAVINST 3501.34F
14 Jan 2014

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.



R. S. WALSH
Director, Expeditionary Warfare

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PROJECTED OPERATIONAL ENVIRONMENT (POE)
FOR
LPD 4 (AUSTIN) CLASS AMPHIBIOUS TRANSPORT DOCK SHIPS

1. The LPD 4 class amphibious transport dock ship's mission is to operate offensively in a high density, multi-threat environment as an integral member of an amphibious force or expeditionary strike group (ESG). In addition, the LPD 4 class provides its own limited air warfare (AW) and surface warfare (SUW) self-defense.
2. The most demanding operating environment anticipated for the LPD 4 class is forward-deployed wartime operations within the littorals in cooperation with designated joint or allied forces, including operations involving coordination of land and sea-based aviation. These operations are frequently characterized by confined and congested water and air space occupied by friends, adversaries, and neutrals—making rapid identification and efficient coordination profoundly difficult. In this environment, adversaries can concentrate and layer their defenses.
3. Peacetime forward operations in littoral areas are also very demanding. In an era characterized by the proliferation of sophisticated weaponry, coupled with the advance of the global contingency operations, the LPD 4 class can anticipate surprise attack by submarines, coastal missiles, mines, sea-skimming cruise missiles, theater ballistic missiles, terrorist, and other asymmetrical threats. A substantial percentage of operations will be conducted within the highly variable littoral environment with joint and allied partners.
4. Flag-configured ships are capable of supporting an ESG command element (CE) staff, an amphibious squadron (PHIBRON), a Marine expeditionary unit (MEU) CE staff, or a small joint task force (JTF) staff. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.
5. During amphibious or expeditionary operations, the ship can operate from over the horizon or close to the shoreline under restricted maneuvering conditions. It is able to conduct

sustained amphibious operations after the initial assault by selectively reducing secondary functions to provide personnel augmentation to intensive operations.

6. The ship is capable of conducting full helicopter (helo) or vertical and/or short takeoff and landing (V/STOL) operations during amphibious assault operations (condition IA). During general quarters (condition I), limited flight quarters operations may be achieved by securing other battle stations. Daily flight operations, other than those conducted during amphibious assault operations, may be conducted at readiness conditions III or IV when flight quarters are set.

7. LPD 4 class has a secondary mission of supporting airborne mine countermeasures (AMCM) operations. AMCM operations will restrict or preclude amphibious operations depending upon the number of AMCM aircraft embarked.

REQUIRED OPERATIONAL CAPABILITIES (ROC)
FOR
LPD 4 (AUSTIN) CLASS AMPHIBIOUS TRANSPORT DOCK SHIPS

1. The LPD 4 class ship's mission is to operate offensively in a high density, multi-threat environment as an integral member of an amphibious force or ESG. In addition, the LPD 4 class provides its own limited anti-air warfare (AAW) and SUW self-defense. The LPD 4 class has additional missions of performing AMCM. Accordingly, the following primary (P) and secondary (S) warfare mission areas are assigned:

LPD 4 CLASS SHIPS													
AAW	AMW	ASU	ASW	CCC	C2W	FSO	INT	LOG	MIW	MOB	MOS	NCO	NSW
P	P	S	S	P	P	S	P	S	S	P	P	S	S
AAW: anti-air warfare							INT: intelligence						
AMW: amphibious warfare							operations						
ASU: anti-surface warfare							LOG: logistics						
ASW: anti-submarine warfare							MIW: mine warfare						
CCC: command, control and communications							MOB: mobility						
C2W: command and control warfare							MOS: missions of state						
FSO: fleet support operations							NCO: noncombat operations						
							NSW: naval special warfare						

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

a. Condition I: Battle Readiness

(1) 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 minimal maintenance that routinely associated with watch standing and urgent repairs.

(2) For the LPD 4 class, this condition means self-defense measures are being performed. Evolutions such as replenishment, law enforcement or logistics 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.

b. Condition IA: Wartime Amphibious Assault Operations. Conducting amphibious operations, all command, control, medical and assault stations, and flight quarters stations are fully manned. Core engineering and damage control stations are manned. Maximum crew endurance is expected to be 24 continuous hours.

c. Condition II: Modified Battle Readiness

(1) Condition II is condition I 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 task force or group commander, or commanding officer (CO). 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 (C2) functions relevant to the threat that are not required to be accomplished simultaneously.

(d) Able to accomplish urgent underway planned maintenance and support functions.

(2) 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.

d. Condition III: Wartime, Increased Tension and Forward-Deployed Cruising Readiness

(1) Reduced defensive systems are manned to a level sufficient to counter possible 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 maintenance, support, and administrative functions.

(2) For the LPD 4 class, this condition includes pre-assault and post-assault operations en route to or in the amphibious objective area. The minimum expected crew endurance for condition III is 60 days, with opportunity for 8 hours of rest provided per man per day.

(3) A ship is considered deployed (i.e., in condition III) when homeported overseas, when out of homeport for more than 8 weeks, or when specified as deployed by the fleet commander.

e. Condition IV: Peacetime Cruising Readiness

(1) 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.

(2) Maximum advantage is taken of training opportunities. Expected endurance is not constrained by personnel. Ability to immediately change readiness posture to condition I, II, or III is expected.

f. Condition V: In port Readiness

(1) 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.

(2) Maximum advantage is taken of training opportunities. Subject to the foregoing requirements, the crew should be provided maximum opportunity for rest, leave, and liberty.

3. ROC symbols are 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.

a. CAPABILITIES

(1) "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."

(2) "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."

b. MODIFIERS

(1) "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.

(2) "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 that 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.

4. Ship's Company and External Personnel Resources. Normally, using an "A" or an "E" requires no embellishing statement as their meanings are predefined. However, in the case of the LPD 4 class as well as other classes that routinely embark external resources, the meaning may not be clear as to whether ship's company or the external resource should provide the augmentation. Therefore, 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.

		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

REQUIRED OPERATIONAL CAPABILITIES

LPD 4 CLASS		I	IA	III	IV	V
AIR WARFARE (AW)						
AW 1	PROVIDE AIR DEFENSE INDEPENDENTLY OR IN COOPERATION WITH OTHER FORCES.					
AW 1.2	<p>Conduct air self-defense using missile, gun, electronic or physical systems (e.g., chaff, flares).</p> <p>IA(L) - Close-in weapon system (CIWS) in AAW manual mode, without magazine reload. Remote control panels manned.</p> <p>III(L) - CIWS in AAW manual mode, without magazine reload. Remote control panels co-manned by other combat information center (CIC) watch stations.</p> <p>IV, V(L) - Plan and train.</p>	F	L	L	L	L
AW 4	CONDUCT AIR OPERATIONS TO SUPPORT AIRBORNE ANTI-AIR OPERATIONS.					
	<p>NOTE: Following contingency AW capabilities available only when AH-1 aircraft embarked. AH-1 not suitable for routine force AW combat air patrol assignment. Use of U.S. Marine Corps (USMC) aircraft in support of Navy functions should occur only as specified in support of emergency force protection and defense of unit/units.</p>					
AW 4.1	Launch fixed and/or rotary wing aircraft involved in anti-air operations.	L	F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>I(L) - 1 of 4 spots only; this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>					
AW 4.2	<p>Recover fixed and/or rotary wing aircraft involved in anti-air operations.</p> <p>I(L) - 1 of 4 spots only; this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
AW 4.5	<p>Provide conventional ordnance to support anti-air operations.</p> <p>NOTE: Full capability assumes AH-1 landing force operational reserve material (LFORM) class V (A) loaded when AH-1 embarked for amphibious operations.</p> <p>NOTE: Ship's company responsible for breakout/strike down, assembly/disassembly and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation ordnance on/from aircraft and movement of aviation ordnance to/from the staging area.</p> <p>IV, V(L) - Plan and train.</p>	F	F	F/E	L	L
AW 4.6	<p>Conduct air operations during</p>	F	F	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
	all emissions control (EMCON) conditions. IV, V(L) - Plan and train.					
AW 4.8	Conduct air operations under all conditions of active jamming. NOTE: For flag-configured ships, full capability when tactical air control squadron (TACRON) detachment (DET) is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET is embarked. IV, V(L) - Plan and train.	F/E	F/E	F/E	L	L
AW 6	DETECT, IDENTIFY AND TRACK AIR TARGETS.					
AW 6.1	Measure aircraft altitude by fade chart. V(L) - Plan and train.	F	F	F	F	L
AW 6.2	Recognize by sight friendly and enemy aircraft. III, IV(L) - Capability provided by bridge watch team and aft lookouts. V(L) - Plan and train.	F	F	L	L	L
AW 6.3	Maintain an accurate air plot. NOTE: Maintain plot on air search radar scope. V(L) - Plan and train.	F	F	F	F	L

LPD 4 CLASS		I	IA	III	IV	V
AW 6.5	Detect, identify, and track air targets with radar and/or cooperative sensors. V(L) - Plan and train.	F	F	F	F	L
AW 6.6	Acquire and track air targets with gunfire control systems/ missile fire control systems. IA(L) - CIWS in AAW manual mode, without magazine reload. Remote control panels manned. III(L) - CIWS in AAW manual mode, without magazine reload. Remote control panels co-manned by other CIC watch stations. IV, V(L) - Plan and train.	F	L	L	L	L
AW 6.7	Detect, classify, and track air targets by electronic warfare support measures (ESM). III, IV(L) - Supervisor and system operator position only for search and identification of non-communication signals. Location and targeting requires augmentation. V(L) - Plan and train.	F	F	L	L	L
AW 9	ENGAGE AIRBORNE THREATS USING SURFACE-TO-AIR ARMAMENT.					
AW 9.4	Engage low/medium altitude airborne threats with gunfire. NOTE: Low altitude only. IA(L) - CIWS in AAW Manual mode, without magazine reload.	F	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>Remote control panels manned.</p> <p>III(L) - CIWS in AAW manual mode, without magazine reload. Remote control panels co-manned by other CIC watch stations.</p> <p>IV, V(L) - Plan and train.</p>					
AW 9.6	<p>Engage airborne threats utilizing soft-kill weapons systems (i.e., chaff/decoys).</p> <p>I, IA(L) - Reloading stations co-manned from other battle stations.</p> <p>III(L) - No reload capability.</p> <p>IV, V(L) - Plan and train.</p>	L	L	L	L	L
AW 11 REPAIR OWN UNIT'S AW EQUIPMENT.	<p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I, IA(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>	L	L	F/A	F	F
AW 12 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S AW CAPABILITIES.	<p>I, IA(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>	L	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>III, IV(L) - Man combat system operational sequencing system (CSOSS) watch organization with combat systems officer of the watch (CSOOW)/combat systems maintenance supervisor and electronics support supervisor.</p> <p>V(L) - Plan and train.</p>					
AMPHIBIOUS WARFARE (AMW)						
AMW 1 LOAD, TRANSPORT, AND LAND COMBAT EQUIPMENT, MATERIAL, SUPPLIES AND ATTENDANT PERSONNEL OF A FORCE OR GROUP IN AN AMPHIBIOUS OPERATION.						
	<p>NOTE: Ship's company augmented by Marine personnel for cargo, equipment, vehicle handling and troop marshalling. Well deck operations manned by ship's company and require augmentation by off-watch personnel during condition III.</p>					
AMW 1.1	<p>Load combat equipment, material and supplies with attendant personnel for an amphibious operation.</p>			F/A	F/A	F/A
AMW 1.2	<p>Transport combat equipment, material and supplies with attendant personnel to the assault area.</p> <p>IV, V(L) - Plan and train.</p>	F		F	L	L
AMW 1.3	<p>Land combat equipment, material, and supplies with attendant personnel by air and/or surface transport during amphibious operation.</p> <p>IV, V(L) - Plan and train.</p>		F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
AMW 1.6	Plan/direct the loading, transporting, and landing of combat equipment, material, and supplies with attendant personnel in an amphibious operation. IV, V(L) - Plan and train.	F	F	F	L	L
AMW 2	LOAD, TRANSPORT AND LAND ELEMENTS OF A LANDING FORCE WITH THEIR EQUIPMENT, MATERIAL AND SUPPLIES IN AN AMPHIBIOUS OPERATION. NOTE: Ship's company augmented by Marine personnel for cargo, equipment, vehicle handling, and troop marshalling. Well deck operations manned by ship's company and require augmentation by off-watch personnel during condition III. NOTE: To achieve full capability at condition I flight quarters manning must be augmented from other battle stations.					
AMW 2.1	Load elements of a landing force with their equipment and supplies for an amphibious operation. IV, V(L) - Plan and train.			F/A	L	L
AMW 2.2	Transport landing force to the assault area. IV, V(L) - Plan and train.	F		F	L	L
AMW 2.3	Land the force and their equipment and supplies by air and/or waterborne means during		F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	an amphibious operation. IV, V(L) - Plan and train.					
AMW 2.6	Provide physical conditioning and acclimatization area for embarked troops.			F	F	F
AMW 2.7	Provide emergency re-supply of supplies and ammunition by air. I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations. III, IV, V(L) - Plan and train.	L/A	F	L	L	L
AMW 3	RE-EMBARK AND TRANSPORT EQUIPMENT, MATERIALS, SUPPLIES, AND PERSONNEL. NOTE: Ship's company augmented by USMC personnel for cargo, equipment, vehicle handling, and troop marshalling. Well deck operations manned by ship's company and require augmentation by off-watch personnel during condition III.					
AMW 3.1	Re-embark and transport personnel of the landing force. NOTE: Ship's company normally augmented by USMC personnel for cargo and equipment handling. Well deck and cargo handling stations manned by off-watch personnel.		F/A	F/A	F/A	F/A
AMW 3.2	Re-embark and transport equipment, materials, and supplies. NOTE: Ship's company normally		F/A	F/A	F/A	F/A

LPD 4 CLASS		I	IA	III	IV	V
	augmented by USMC personnel for cargo and equipment handling. Well deck and cargo handling stations manned by off-watch personnel.					
AMW 4	SERVE AS PRIMARY CONTROL SHIP IN SHIP-TO-SHORE MOVEMENT.		F/A	F/A	L	L
	NOTE: Full capability with amphibious group/PHIBRON staff embarked. III, IV, V(L) - Plan and train.					
AMW 5	CONDUCT LANDING CRAFT OR AMPHIBIOUS VEHICLE OPERATIONS TO SUPPORT AN AMPHIBIOUS OPERATION.					
AMW 5.1	Conduct landing craft operations. IV, V(L) - Plan and train.		F	F/E	L	L
AMW 5.2	Conduct amphibious vehicle operations. IV, V(L) - Plan and train.		F	F/E	L	L
AMW 5.3	Provide boat haven facilities. IV, V(L) - Plan and train.		F	F/E	L	L
AMW 5.4	Provide hull mechanical and electrical and electronics maintenance and repair for embarked amphibious assault craft. NOTE: Organizational level landing craft, air cushion vehicle (LCAC) maintenance provided by LCAC DET personnel. IA(L) - Emergency repairs only.		L	F/A	F/A	F/A

LPD 4 CLASS		I	IA	III	IV	V
	Requires standing down selected personnel from condition IA stations.					
AMW 5.5	Conduct LCAC vehicle operations. NOTE: Well deck capable of holding one LCAC. IV, V(L) - Plan and train.		F	F/E	L	L
AMW 5.6	Plan/direct the use of landing craft or amphibious vehicle operations in support of amphibious operation. IV, V(L) - Plan and train.		F	F	L	L
AMW 6 CONDUCT HELO OPERATIONS TO SUPPORT AN AMPHIBIOUS OPERATION.						
AMW 6.1	Conduct day helo flight operations. I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations. IV, V(L) - Plan and train.	L	F	F/E	L	L
AMW 6.2	Conduct night helo flight operations. I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations. IV, V(L) - Plan and train.	L	F	F/E	L	L
AMW 6.4	Provide conventional ordnance to support amphibious operations within required	F	F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>turnaround times.</p> <p>NOTE: Full capability assumes AH-1 LFORM class V(A) loaded when AH-1 embarked for amphibious operations.</p> <p>NOTE: Ship's company responsible for breakout/strike down, assembly/disassembly, and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation ordnance on/from aircraft and movement of aviation ordnance to/from the staging area.</p> <p>IV, V(L) - Plan and train.</p>					
AMW 6.5	<p>Conduct helo flight operations during all EMCON conditions.</p> <p>IV, V(L) - Plan and train.</p>	F	F	F	L	L
AMW 6.6	<p>Conduct helo hot and cold refueling operations.</p> <p>I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
AMW 6.7	<p>Serve as helo haven.</p> <p>I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations.</p>	L	F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	IV, V(L) - Plan and train.					
AMW 6.8	Provide electrical power for helo starting, testing, etc.	F	F	F	F	F
AMW 6.9	Provide ground handling equipment for loading and spotting helos. I(L) - One tow tractor and one aircraft director only; this limited flight quarters manning must be augmented from other battle stations.	L	F	F/E	F/E	F/E
AMW 11 CONDUCT AMPHIBIOUS CARGO HANDLING OPERATIONS.						
	NOTE: Ship's company normally augmented by USMC personnel for cargo and equipment handling. Well deck and cargo handling stations manned by off-watch personnel.					
AMW 11.1	Plan/direct amphibious cargo handling operations. IV, V(L) - Plan and train.	F	F	F	L	L
AMW 11.2	Conduct amphibious cargo handling operations. NOTE: Full capability with embarked troops.		F/A	F/A	F/A	F/A
AMW 15 PROVIDE AIR OPERATIONS TO SUPPORT AMPHIBIOUS OPERATIONS.						
	NOTE: To achieve full capability at condition I flight quarters manning must be augmented from other battle stations.					

LPD 4 CLASS		I	IA	III	IV	V
AMW 15.1	<p>Launch fixed wing and/or rotary wing aircraft.</p> <p>I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
AMW 15.2	<p>Recover fixed wing and/or rotary wing aircraft.</p> <p>I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
AMW 15.5	<p>Provide conventional ordnance within required turnaround times.</p> <p>NOTE: Full capability assumes AH-1 LFORM class V(A) loaded when AH-1 embarked for amphibious operations.</p> <p>NOTE: Ship's company responsible for breakout/ strike down, assembly/ disassembly, and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation on/from aircraft and movement of aviation ordnance to/from the staging area.</p> <p>IV, V(L) - Plan and train.</p>	F	F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
AMW 15.8	Control aircraft under all conditions of active jamming. NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked. IV, V(L) - Plan and train.	F/E	F/E	F/E	L	L
AMW 15.9	Load/unload ordnance within required aircraft turnaround time. NOTE: Full capability assumes AH-1 LFORM class V(A) loaded when AH-1 embarked for amphibious operations. NOTE: Ship's company responsible for breakout/strike down, assembly/disassembly and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation on/from aircraft and movement of aviation ordnance to/from the staging area. IV, V(L) - Plan and train.	F	F	F/E	L	L
AMW 15.10	Provide air strike control to direct or assist attack aircraft. NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration	F/E	F/E	F/E	L	L

LPD 4 CLASS	I	IA	III	IV	V
<p>capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>					
<p>AMW 17 CONDUCT V/STOL FLIGHT OPERATIONS TO SUPPORT AN AMPHIBIOUS OPERATION.</p>					
<p>AMW 17.7 Serve as V/STOL aircraft haven.</p> <p>NOTE: For emergency use only.</p> <p>I(L) - 1 of 4 spots only; this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
<p>AMW 20 REPAIR OWN UNIT'S AMW EQUIPMENT.</p> <p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.</p>	L	L	F/A	F	F
<p>AMW 23 CONDUCT ADVANCE FORCE OPERATIONS FOR AN AMPHIBIOUS OPERATION.</p> <p>NOTE: Full capability with an embarked staff to support specific mission (e.g., ESG CE or PHIBRON or MEU staff, or a limited Marine expeditionary force (MEF) or Marine expeditionary brigade (MEB) or Marine air-ground task force</p>					

LPD 4 CLASS		I	IA	III	IV	V
	(MAGTF) staff).					
AMW 23.1	Plan/direct advance force operations for an amphibious operation. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 24 CONDUCT DIRECT ACTION AMPHIBIOUS RAIDS.						
	NOTE: Full capability with an embarked staff to support specific mission (e.g., ESG CE or PHIBRON or MEU staff, or a limited MEF or MEB or MAGTF staff).					
AMW 24.1	Plan/direct action amphibious raids. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 24.2	Conduct direct action amphibious raids. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 26 CONDUCT TACTICAL RECOVERY OF AIRCRAFT AND PERSONNEL (TRAP).						
	NOTE: Full capability with an embarked staff to support specific mission (e.g., ESG CE or PHIBRON or MEU staff, or a limited MEF or MEB or MAGTF					

LPD 4 CLASS		I	IA	III	IV	V
	staff).					
AMW 26.1	Plan/direct TRAP missions. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 26.2	Conduct TRAP missions. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 27 CONDUCT IN-EXTREMIS HOSTAGE RESCUE (IHR).						
	NOTE: Full capability with an embarked staff to support specific mission (e.g., ESG CE or PHIBRON or MEU staff, or a limited MEF or MEB or MAGTF staff).					
AMW 27.1	Plan/direct IHR operations. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 27.2	Conduct IHR operations. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 28 CONDUCT INITIAL TERMINAL GUIDANCE MISSIONS.						
	NOTE: Full capability with an embarked staff to support					

LPD 4 CLASS		I	IA	III	IV	V
	specific mission (e.g., ESG CE or PHIBRON or MEU staff, or a limited MEF or MEB or MAGTF staff).					
AMW 28.1	Plan/direct initial terminal guidance missions. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 28.2	Conduct initial terminal guidance missions. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 29 CONDUCT SECURITY OPERATIONS TO PROTECT U.S. PROPERTY AND NONCOMBATANTS IN HOSTILE AND NON-HOSTILE ENVIRONMENTS.						
	NOTE: Full capability with an embarked staff to support specific mission (e.g., ESG CE or PHIBRON or MEU staff, or a limited MEF or MEB or MAGTF staff).					
AMW 29.1	Plan/direct security operations to protect U.S. property and noncombatants in hostile and non-hostile foreign environments. NOTE: Full capability with embarked troops. IV, V(L) - Plan and train.	F/A	F/A	F/A	L	L
AMW 29.2	Conduct security operations to	F/A	F/A	F/A	L	L

LPD 4 CLASS	I	IA	III	IV	V
<p>protect U.S. property and noncombatants in hostile and non-hostile foreign environments.</p> <p>NOTE: Full capability with embarked troops.</p> <p>IV, V(L) - Plan and train.</p>					
<p>AMW 31 PROVIDE INSTRUCTION TO NON-U.S. UNITS USING MOBILE TRAINING TEAMS.</p>					
<p>AMW 31.1 Plan/direct use of mobile training teams to provide instruction to non-U.S. units.</p>				F	F
<p>AMW 31.2 Conduct use of mobile training teams to provide instruction to non-U.S. units.</p>				F	F
<p>AMW 43 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S AMW CAPABILITIES.</p> <p>I, IA(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>	L	L	L	L	L
<p>AMW 44 LOCATE AND TRACK FRIENDLY FORCES USING THE AMPHIBIOUS ASSAULT DIRECTION SYSTEM, AN/KSQ-1.</p> <p>III, IV, V(L) - Plan and train.</p>		F	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
ANTI-SUBMARINE WARFARE (ASW)						
ASW 6 ENGAGE SUBMARINES INDEPENDENTLY OR IN COOPERATION WITH OTHER FORCES.						
ASW 6.8	Detect, localize, and track subsurface contacts which are at periscope depth visually or with radar. III, IV(L) - Capability provided by bridge watch team and aft lookouts. V(L) - Plan and train.	F	F	L	L	L
ASW 6.14	Detect, identify, classify, and track subsurface contacts which are at periscope depth by ESM. V(L) - Plan and train.	F	F	F	F	L
ASW 7 ATTACK SUBMARINES WITH ANTI-SUBMARINE ARMAMENT.						
ASW 7.9	Attack with guns. I, IA(L) - Man two 25 millimeter (mm) and two .50 caliber (cal) mounts. Manning additional .50 cal mounts requires securing personnel from other condition I or IA stations. IV, V(L) - Plan and train.	L	L	F/A	L	L
ASW 8 DISENGAGE, EVADE, AVOID, AND DECEIVE SUBMARINES.						
ASW 8.1	Employ torpedo countermeasures and evasion techniques, including: (a) Torpedo countermeasures system (NIXIE).	L	L	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>(zz) Other - countermeasures system, torpedo if installed.</p> <p>I, IA(L) - NIXIE operator co-manned in condition I. May require standing down selected personnel from their condition I or IA stations.</p> <p>IV, V(L) - Plan and train.</p>					
ASW 8.5	<p>Plan/direct submarine disengagement, evasion and avoidance by employing torpedo countermeasures, acoustic countermeasures, acoustic counter-countermeasures, deception and evasion techniques.</p> <p>NOTE: Deception and evasion techniques only.</p> <p>IV, V(L) - Plan and train.</p>	F	F	F	L	L
ASW 9 REPAIR OWN UNIT'S ASW EQUIPMENT.	<p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.</p>	L	L	F/A	F	F
ASW 13 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S ASW CAPABILITIES.	<p>I, IA(L) - Emergency repairs to</p>	L	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>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>					
COMMAND, CONTROL AND COMMUNICATIONS (CCC)						
CCC 1 PROVIDE C2 FACILITIES FOR A TASK ORGANIZATION COMMANDER AND STAFF.						
	NOTE: MEU sized operation.					
CCC 1.1	<p>Support (spaces, equipment, and facilities only) embarked warfare commander or coordinator (other than own unit CO).</p> <p>NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.</p>	F	F	F	F	F
CCC 1.2	<p>Provide C2 facilities for embarked warfare commander or coordinator (other than own unit CO).</p> <p>NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff</p>	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	elements for a short duration, sharing spaces and facilities with ship's company.					
CCC 1.3	Provide adequate C2 facilities for embarked landing force commander. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.	F	F	F	F	F
CCC 1.4	Provide a supporting arms coordination center (SACC) with facilities for the SACC, landing force fire support coordinator, naval gunfire control officer and supporting personnel. NOTE: Flag-configured ships only.	F	F	F	F	F
CCC 1.5	Provide a tactical air control center (TACC) or tactical air direction center (TADC), as appropriate, with facilities for the tactical air officer and/or the tactical air controller (or tactical air director) and his or her staff. Facilities are required for the control of close air support and the coordination of AW, ASW and mine warfare (MIW) air and multi-deck helo operations. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.					
CCC 1.6	Provide a helo direction center (HDC) with C2 facilities for the control and direction of helos operating from the ship. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.	F	F	F	F	F
CCC 1.7	Provide a tactical logistics center with facilities for maintaining an accurate accounting of serial locations, maintaining an accurate status of the surface and heliborne ship-to-shore movement, monitoring landing force logistics requests and advising Navy control officials of landing force requirements. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.	F	F	F	F	F
CCC 1.9	Provide a signal/electronic warfare coordination center with facilities for operations and intelligence personnel. NOTE: Flag-configured ships	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	only.					
CCC 1.10	Provide a helo logistics support center with facilities for the helo logistics coordinator and supporting personnel. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.	F	F	F	F	F
CCC 1.12	Provide an intelligence center with facilities for embarked staff for production of required intelligence. NOTE: Flag-configured ships only.	F	F	F	F	F
CCC 1.13	Provide communications support for embarked warfare commander or coordinator. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.	F	F	F	F	F
CCC 1.14	Provide a CIC or combat direction center (CDC) with facilities for a staff watch officer. NOTE: Flag-configured ships only. Non flag-configured ships can provide emergency	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	support to partial staff elements for a short duration, sharing spaces and facilities with ship's company.					
CCC 2	COORDINATE AND CONTROL THE OPERATIONS OF THE TASK ORGANIZATION OR FUNCTIONAL FORCE TO CARRY OUT ASSIGNED MISSIONS.					
CCC 2.1	Coordinate the reconnaissance of multiple surface, subsurface and/or air contacts. V(L) - Plan and train.	F	F	F	F	L
CCC 2.6	Function as force or sector officer in tactical command/composite warfare commander (or alternate) to coordinate and control strike group/task force operations. NOTE: Officer in tactical command level operations only. IV, V(L) -Plan and train.	F	F	F	L	L
CCC 2.8	Function as on-scene commander for a search and rescue (SAR) operation. V(L) - Plan and train.	F	F	F	F	L
CCC 2.9	Establish a TACC and/or TADC as appropriate to support the tactical air officer. TACC shall control and/or coordinate all fixed-wing air assets within the assigned area of operations (AO). NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag,	F/E	F/E	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>limited, short duration capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>					
CCC 2.10	<p>Establish a helo coordination section (HCS) to support the tactical air officer. Through HDC, HCS will coordinate helo operations within the AO during multi-deck operations.</p> <p>NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	F/E	L	L
CCC 2.11	<p>Control combat air support aircraft in support of amphibious operations in coordination with other supporting arms.</p> <p>NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	F/E	L	L
CCC 2.12	<p>Coordinate and control air SAR operations in the assigned AO.</p> <p>NOTE: For flag-configured,</p>	F/E	F/E	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked. IV, V(L) - Plan and train.					
CCC 2.15	Function as one or more of the following coordinators for force or sector. (1) Alternate information warfare commander. IV, V(L) - Plan and train.	F	F	F	L	L
CCC 2.16	Assist in the planning of AW, SUW and ASW for the coordination of air operations in the assigned AO. V(L) - Plan and train.	F	F	F	F	L
CCC 2.18	Function as a surface warfare commander for force or sector. NOTE: Sector only. IV, V(L) - Plan and train.	F	F	F	L	L
CCC 3 PROVIDE OWN UNIT'S C2 FUNCTIONS.						
CCC 3.1	Maintain a CIC or CDC capable of collecting, processing, displaying, evaluating, and disseminating tactical information.	F	F	F	F	F
CCC 3.3	Provide all personnel services, programs and facilities to safeguard classified material and information.	F	F	F	F	F
CCC 3.4	Carry out emergency destruction	F	F	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
	of classified material and equipment rapidly and efficiently. IV, V(L) - Plan and train.					
CCC 3.5	Employ identification friend or foe (IFF)/selective identification feature including secure IFF mode 4. V(L) - Plan and train.	F	F	F	F	F
CCC 3.7	Maintain a CIC or CDC capable of supporting a tactical air officer.	F	F	F	F	F
CCC 3.8	Establish voice communications with USMC evacuation and command nets and/or naval support activity net. IV, V(L) - Plan and train.	F	F	F	L	L
CCC 4 MAINTAIN NAVY TACTICAL DATA SYSTEM OR DATA LINK CAPABILITY.						
CCC 4.5	Receive and process data link information from satellite communications (SATCOM). V(L) - Plan and train.	F	F	F	F	L
CCC 4.6	Receive and process data link information from high frequency (HF) systems. V(L) - Plan and train.	F	F	F	F	L
CCC 4.13	Transmit/receive data via Global Command and Control System-Maritime. V(L) - Plan and train.	F	F	F	F	L
CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.						

LPD 4 CLASS		I	IA	III	IV	V
CCC 6.1	Maintain tactical voice communications.	F	F	F	F	F
CCC 6.2	Maintain visual communications. I, IA(L) - Work one contact. III, IV(L) - Initial limited response to visual signal provided by bridge area watch team. Experienced visual specialist on-call. V(L) - Work one contact for administrative traffic.	L	L	L	L	L
CCC 6.5	Maintain full duplex, cryptographically covered HF teletype/data circuits.	F	F	F	F	F
CCC 6.6	Process messages.	F	F	F	F	F
CCC 6.10	Maintain voice/teletype/computer data cryptographically covered SATCOM circuits.	F	F	F	F	F
CCC 6.12	Maintain internal communications systems.	F	F	F	F	F
CCC 6.13	Maintain capability for low probability of intercept high frequency communications.	F	F	F	F	F
CCC 6.16	Provide tactical, secure, anti-jam ultra-high frequency voice communications.	F	F	F	F	F
CCC 6.17	Provide tactical, secure, anti-jam very-high frequency voice communications.	F	F	F	F	F
CCC 6.19	Provide tactical, secure voice or data communications.	F	F	F	F	F
CCC 6.20	Provide internal ship signal exploitation system communications system.	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
CCC 6.21	Provide officer-in-tactical command information exchange subsystem.	F	F	F	F	F
CCC 9 RELAY COMMUNICATIONS.						
CCC 9.1	Maintain visual communications. I, IA(L) - Work one contact. III, IV(L) - Initial limited response to visual signal provided by bridge area watch team. Experienced visual specialist on-call. V(L) - Work one contact for administrative traffic.	L	L	L	L	L
CCC 13 PROVIDE COMMUNICATIONS SUPPORT FOR SHORE BASED, SURFACE, SUBMARINE, OR AIR UNITS.						
CCC 13.37	Provide tactical intelligence support. NOTE: Flag-configured ships only. V(L) - Plan and train.	F	F	F	F	L
CCC 19 REPAIR OWN UNIT'S CCC EQUIPMENT.						
	NOTE: During condition III, full capability provided by on-call/off-watch personnel. I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.	L	L	F/A	F	F
CCC 20 CONDUCT CASUALTY CONTROL PROCEDURES						
		L	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
TO MAINTAIN/RESTORE OWN UNIT'S CCC CAPABILITIES. I, IA(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 CSOOW/combat systems maintenance supervisor and electronics support supervisor. V(L) - Plan and train.						
INFORMATION OPERATIONS (IO)						
IO 1 CONDUCT ELECTRONIC WARFARE SUPPORT OPERATIONS.						
IO 1.1	Search for and intercept electromagnetic and directed energy signals and emissions. NOTE: Non-communications only. V(L) - Plan and train.	F	F	F	F	L
IO 1.2	Identify C2 and weapons systems' signals. V(L) - Plan and train.	F	F	F	F	L
IO 1.3	Identify threat platforms' communications and weapons signal sources. NOTE: Non-communications only. V(L) - Plan and train.	F	F	F	F	L
IO 1.4	Provide location or targeting	L	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>information of threat weapons/C2/platforms/signal sources.</p> <p>I, IA, III, IV(L) - Line of bearing only.</p> <p>V(L) - Plan and train.</p>					
IO 1.5	<p>Provide timely threat alert for actions involving electronic attack, electronic protection, EMCON, avoidance, deception and targeting.</p> <p>V(L) - Plan and train.</p>	F	F	F	F	L
IO 1.6	<p>Conduct electronic surveillance (ES) for self-defense.</p> <p>IV, V(L) - Plan and train.</p>	F	F	F	L	L
IO 3	CONDUCT ELECTRONIC PROTECTION OPERATIONS.					
IO 3.1	<p>Detect, identify, and protect against electronic jamming of electromagnetically controlled and/or dependent systems.</p> <p>V(L) - Plan and train.</p>	F	F	F	F	L
IO 3.2	<p>Detect, identify, and protect against electronic deception of electromagnetically controlled and/or dependent systems.</p> <p>V(L) - Plan and train.</p>	F	F	F	F	L
IO 4	PLAN AND IMPLEMENT OPERATIONS SECURITY MEASURES.					
IO 4.1	<p>Implement appropriate/directed electromagnetic/acoustic EMCON condition.</p>	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
IO 4.2	Transition rapidly from one EMCON condition or another. IV, V(L) - Ships may not be able to rapidly transition due to locked or unmanned spaces.	F	F	F	L	L
IO 4.3	Monitor own unit compliance with EMCON condition in effect.	F	F	F	F	F
IO 4.4	Monitor task group/force compliance with EMCON condition in effect.	F	F	F	F	F
IO 4.9	Manage electromagnetic/acoustic and/or other emissions to minimize mutual interference among friendly systems. IV, V(L) - Plan and train.	F	F	F	L	L
IO 5	CONDUCT COORDINATED IO/INFORMATION WARFARE OPERATIONS WITH OTHER FORCES IN SUPPORT OF A JTF/GROUP. IV, V(L) - Plan and train.	F	F	F	L	L
IO 6	PLAN AND CONDUCT COUNTER-SURVEILLANCE, COUNTER-TARGETING AND MILITARY DECEPTION (MILDEC) OPERATIONS.					
IO 6.7	Conduct naval operational deception operations using tactics, operations, exercises or physical means. IV, V(L) - Plan and train.	F	F	F	L	L
IO 14	REPAIR OWN UNIT'S IO EQUIPMENT. NOTE: During condition III, full capability provided by on-call/off-watch personnel. I, IA(L) - Emergency repairs to	L	L	F/A	F	F

LPD 4 CLASS		I	IA	III	IV	V
	equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.					
IO 16	CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S IO CAPABILITIES.	L	L	L	L	L
	<p>I, IA(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>					
IO 25	MILDEC.					
IO 25.5	Execute military tactical deception operations using technical means (electronic, acoustic, visual, electrical/optical).	F	F	F	L	L
	IV, V(L) - Plan and train.					
FLEET SUPPORT OPERATIONS (FSO)						
FSO 1	REPAIR AND OVERHAUL SHIPS, AIRCRAFT AND ASSOCIATED EQUIPMENT.					
FSO 1.1	Provide the following services:	L/A	L/A	F/A	F/A	F/A
	(a) Machine shop. (c) Machinery repair. (f) Metalsmith.					

LPD 4 CLASS		I	IA	III	IV	V
<p>(I) Rigging and handling. (j) Weight testing. (x) Pipe and pressure hull welding (nuclear and non-nuclear). (y) Nondestructive test services.</p> <p>NOTE: For LCACs, routine repairs performed by the LCACs' crews and the assault craft sea element repair divisions; the ship may provide assistance to repair emergent casualties. For repairing other ships in company, augmentation by technical and supply support personnel from a regional maintenance center (RMC) is required.</p> <p>I, IA(L) - Battle repairs only. Select LCAC personnel may have to stand down from their watch stations to provide support. For LCACs, assistance may have to be obtained from assault craft sea element repair divisions embarked in another ship.</p>						
<p>FSO 1.2 Provide repair services for:</p> <p>(a) Pipe and lagging repair. (h) Machinery. (l) LCAC.</p> <p>NOTE: For LCACs, routine repairs performed by the LCACs' crews and the assault craft sea element repair divisions; the ship may provide assistance to repair emergent casualties.</p>	L/A	L/A	F/A	F/A	F/A	

LPD 4 CLASS		I	IA	III	IV	V
	<p>For repairing other ships in company, augmentation by technical and supply support personnel from an RMC is required.</p> <p>I, IA(L) - Battle repairs only. Select LCAC personnel may have to stand down from their watch stations to provide support. For LCACs, assistance may have to be obtained from assault craft sea element repair divisions embarked in another ship.</p>					
FSO 1.3	<p>Provide repair and inspection services for:</p> <p>(a) Boiler. (d) Internal combustion engines. (e) Boat.</p> <p>NOTE: For LCACs, routine repairs performed by the LCACs' crews and the assault craft sea element repair divisions; the ship may provide assistance to repair emergent casualties. For repairing other ships in company, augmentation by technical and supply support personnel from an RMC is required.</p> <p>I, IA(L) - Battle repairs only. Select LCAC personnel may have to stand down from their watch stations to provide support. For LCACs, assistance may have to be obtained from assault craft sea element repair</p>	L/A	L/A	F/A	F/A	F/A

LPD 4 CLASS		I	IA	III	IV	V
	divisions embarked in another ship.					
FSO 3	PROVIDE SUPPORT SERVICES TO OTHER UNITS.					
FSO 3.1	Provide the following services to other units: (a) Administrative services. (b) Administrative data processing (ADP) support. (c) Disbursing. (d) Classified material storage. (e) Legal services. (f) Chaplain services. (g) Library services. (h) Ship store. (i) Laundry. (j) Dry cleaning. (k) Barber shop. III, IV, V(L) - Capable of providing only limited administrative services to embarked units and limited services to units in company on an emergency basis.			L	L	L
FSO 3.3	Support aircraft (when assigned). NOTE: Embarked aviation DET provides own maintenance and unique test equipment. I, IA(L) - Battle repairs only. Selected personnel may have to stand down from their watch stations to provide support.	L	L	F	F	F
FSO 5	CONDUCT TOWING/SEARCH/SALVAGE/RESCUE OPERATIONS.					

LPD 4 CLASS		I	IA	III	IV	V
FSO 5.1	Conduct towing operations. NOTE: During condition I, stand down other battle stations. During condition III, requires augmentation from off-watch personnel. IV, V(L) - Plan and train.	F/A		F/A	L	L
FSO 5.3	Conduct rescue operations. V(L) - Plan and train.	F	F	F	F	L
FSO 5.15	Plan/direct towing, search, salvage, and/or rescue operations. V(L) - Plan and train.	F	F	F	F	L
FSO 5.17	Prepare a vessel or craft to be towed. V(L) - Plan and train.	F	F	F	F	L
FSO 5.18	Augment a towing vessel in the conduct of towing operations. V(L) - Plan and train.	F	F	F	F	L
FSO 6 SUPPORT/CONDUCT SAR OPERATIONS IN A COMBAT/NONCOMBAT ENVIRONMENT.						
FSO 6.1	Support/conduct combat/noncombat SAR operations by fixed or rotary wing aircraft. NOTE: Noncombat, day light operations only. Night SAR capability with the use of night SAR-capable helo from embarked squadron. I(L) - 1 of 4 spots only, this limited flight quarters manning	L	F	F/E	F/E	F/E

LPD 4 CLASS		I	IA	III	IV	V
	must be augmented from other battle stations.					
FSO 6.2	Conduct combat/noncombat SAR operations by surface ships. I, IA(L) - Selected personnel must stand down from condition I or IA stations to man SAR boat or deck recovery details.	L/E	L/E	F	F	F
FSO 6.4	Recover man overboard. NOTE: Noncombat, day light operations only. Night SAR capability with the use of night SAR-capable helo from embarked squadron. I, IA(L) - Selected personnel must stand down from condition I or IA stations to man SAR boat or deck recovery details.	L/E	L/E	F	F	F
FSO 6.5	Support/perform planeguard/lifeguard functions. I(L) - Rescue requires securing personnel from other battle stations. NOTE: Lifeguard not normally assigned to this class due to lack of maneuverability. IV, V(L) - Plan and train.	L		F/E	L	L
FSO 6.7	Conduct general surveillance. V(L) - Plan and train.	F	F	F	F	L
FSO 6.8	Acquire and display distress data. IV, V(L) - Plan and train.	F	F	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
FSO 6.9	Report situation assessment. IV, V(L) - Plan and train.	F	F	F	L	L
FSO 6.10	Coordinate SAR operations. IV, V(L) - Plan and train.	F	F	F	L	L
FSO 6.11	Conduct multi-unit SAR operations. IV, V(L) - Plan and train.			F	L	L
FHP 23 PROVIDE MEDICAL CARE TO ASSIGNED AND EMBARKED PERSONNEL.						
FHP 23.1	Conduct sick call.			F	F	F
FHP 23.2	Conduct physical examinations.			F	F	F
FHP 23.3	Conduct lab diagnostic services requiring: (b) Laboratory technicians. I, IA(L) - Battle casualty support.	L	L	F	F	F
FHP 23.4	Conduct basic ward care. V(L) -Ward care limited to patients not requiring special nursing skills or monitoring. Seriously injured casualties should normally be transferred to a ship activity with full-spectrum post-operative care facilities at the first opportunity.	F	F	F	F	L
FHP 23.5	Conduct sanitation and safety inspections.			F	F	F
FHP 23.6	Conduct occupational health/safety and preventative medicine programs and training using the following personnel:			F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	(a) Hospital corpsman.					
FHP 23.8	Conduct pharmacy services requiring the following personnel:	F	F	F	F	F
	(b) Pharmacy technicians.					
FHP 23.9	Conduct associated administrative/maintenance services.			F	F	F
	(a) Maintain adequate medical supplies for appropriate level health care.					
	(c) Provide patient/casualty administrative services.					
	(d) Perform routine medical administrative services.					
FHP 23.10	Conduct on-site emergency medical treatment during hazardous evolutions including flight quarters, and underway replenishment/refueling and amphibious assault boat operations.	F	F	F	F	F
FHP 23.12	Conduct radiological diagnostic services requiring the following personnel:	L	L	L	L	L
	(a) Hospital corpsmen.					
	(b) Radiological technician.					
	I, IA, III, IV, V(L) - authorized medical allowance list (AMAL) supplies, equipment and availability of trained personnel are the limiting factors.					
FHP 23.15	Conduct disease and vector control planning and	L	L	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	operations. I, IA(L) - Battle casualty support only.					
FHP 23.17	Identify, equip, and maintain suitable spaces to provide medical care.	F	F	F	F	F
FHP 23.18	Identify, equip, and maintain adequate storage spaces for medical equipment and medical supplies.	F	F	F	F	F
FHP 23.19	Provide medical care, triage and resuscitation commensurate with health care provider credentials using the following personnel: (a) Independent duty corpsman. (c) Medical officer.	F	F	F	F	F
FHP 23.20	Provide obstetrics and gynecological medical care commensurate with health care provider credentials using the following personnel: (a) Independent duty corpsman. (b) Medical officer. I, IA(L) - Battle casualty support only.	L	L	F	F	F
FSO 10 PROVIDE FIRST AID ASSISTANCE.						
FSO 10.1	Identify, equip, and maintain appropriate first aid spaces.	F	F	F	F	F
FSO 10.2	Train assigned and embarked personnel in first aid, self and buddy aid procedures.			F	F	F
FSO 10.3	Train stretcher bearers.			F	F	F
FSO 11 PROVIDE TRIAGE OF CASUALTIES/						

LPD 4 CLASS		I	IA	III	IV	V
PATIENTS.						
FSO 11.1	Identify, equip, and maintain suitable triage spaces.	F	F	F	F	F
FSO 11.2	Train assigned and embarked personnel in triage care.			F	F	F
FSO 11.3	Provide administrative support to augmentation personnel/ associated equipment who are assigned to triage and chemical, biological, and radiation (CBR) decontamination stations.	F	F	F	F	F
FSO 11.4	Train designated non-medical personnel to assist in triage management care for CBR contamination casualties.			F	F	F
FSO 11.5	Train designated non-medical personnel in CBR casualty decontaminated procedures.			F	F	F
FSO 11.6	Train designated supervisory medical personnel in oversight procedures during CBR casualty decontamination.			F	F	F
FSO 11.7	Provide medical treatment for CBR casualties.	F	F	F	F	F
FSO 12 PROVIDE MEDICAL/SURGICAL TREATMENT FOR CASUALTIES/PATIENTS.						
FSO 12.1	Identify, equip, and maintain suitable resuscitation spaces.	F	F	F	F	F
FSO 12.2	Train assigned and embarked personnel in resuscitation.			F	F	F
FSO 12.3	Provide administrative support to resuscitation-trained augmented personnel and their associated equipment.	F	F	F	F	F
FSO 12.4	Identify, equip, and maintain adequate medical supply storage	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	spaces for appropriate level of resuscitation.					
FSO 12.5	Identify, equip, and maintain suitable spaces for emergency minor surgery.	F	F	F	F	F
FSO 12.7	Identify, equip, and maintain suitable procedure space for emergency response, stabilization, and casualty transfer.	F	F	F	F	F
FSO 13 PROVIDE MEDICAL, SURGICAL, POST-OPERATIVE AND NURSING CARE FOR CASUALTIES/PATIENTS.						
FSO 13.5	Provide blood bank capabilities. I, III, IV, V(L) - AMAL supplies, equipment, and availability of trained personnel are the limiting factors.	L		L	L	L
FSO 13.6	Provide suitable care of the dead.	F	F	F	F	F
FSO 14 PROVIDE MEDICAL REGULATION, TRANSPORT/EVACUATION AND RECEIPT OF CASUALTIES/PATIENTS.						
FSO 14.1	Provide appropriate equipment to conduct medical evacuation.	F	F	F	F	F
FSO 14.2	Train assigned and embarked personnel in medical regulation procedures.			F	F	F
FSO 14.3	Provide administrative support to augmented medical regulation personnel and their associated equipment.	F	F	F	F	F
FSO 14.4	Transport and/or provide for casualty/patient evacuation.	F	F	F	F	F

LPD 4 CLASS	I	IA	III	IV	V
FSO 16 PROVIDE ROUTINE AND EMERGENCY DENTAL CARE.					
FSO 16.1 Conduct dental sick call.			F	F	F
FSO 16.2 Conduct dental examinations. I, IA(L) - Battle casualties.	L	L	F	F	F
FSO 16.3 Conduct a preventive dentistry program including oral prophylaxis and topical fluoride application.			F	F	F
FSO 17 PROVIDE DEFINITIVE DENTAL CARE FOR CASUALTIES AND PATIENTS.					
FSO 17.1 Provide restorative treatment and minor oral surgery including tooth extractions. I, IA(L) - Battle casualties.	L	L	F	F	F
FSO 17.2 Provide periodontal treatment including periodontal surgery. III, IV, V(L) - Emergency treatment only.			L	L	L
FSO 17.3 Provide endodontic treatment. III, IV, V(L) - Emergency treatment only.			L	L	L
FSO 17.4 Provide dental prosthesis fabrication and repair. (a) Limited service laboratory. III, IV, V(L) - Minor or temporary fabrication and repairs.			L	L	L
FSO 20 PROVIDE FLEET TRAINING SERVICES.					
FSO 20.1 Act as target for submarines.				F	L

LPD 4 CLASS		I	IA	III	IV	V
	V(L) - Plan and train.					
FSO 20.6	Act as delivery or receiving ship for underway replenishment training.			F	L	L
	IV, V(L) - Plan and train.					
FSO 20.11	Provide cargo handling training to assigned personnel and designated augmenters.			F	F	F
FSO 20.14	Provide amphibious assault training for fleet marine force units.			F	L	L
	IV, V(L) - Plan and train.					
FSO 20.56	Conduct firefighting training.			F	F	F
FSO 20.64	Plan, coordinate, and conduct in port battle group (BG) and/or amphibious readiness group workup training.					F
FSO 20.68	Act as school ship for engineering training.				F	F
FSO 27 CONDUCT NAVIGATION STATION OPERATIONS.						
FSO 27.1	Provide navigation data to ships and aircraft.	F	F	F	F	F
FSO 27.2	Serve as navigation station.	F	F	F	L	L
	IV, V(L) - Plan and train.					
FSO 51 REPAIR OWN UNIT'S FSO-RELATED EQUIPMENT.		L	L	F/A	F	F
	NOTE: During condition III, full capability provided by on-call/off-watch personnel.					
	I, IA(L) - Emergency repairs to equipment critical to ship's					

LPD 4 CLASS		I	IA	III	IV	V
	mission. May require standing down selected personnel from their condition I or IA stations.					
FSO 55 MAINTAIN READINESS BY PROVIDING FOR TRAINING OF OWN UNIT'S PERSONNEL.				F	F	F
INTELLIGENCE (INT)						
INT 1 SUPPORT/CONDUCT INTELLIGENCE COLLECTION.						
INT 1.1	Support/conduct electronic intelligence information collection.	F	F	F	F	F
INT 1.3	Support/conduct imagery intelligence information collection.	F	F	F	F	F
INT 1.5	Support/conduct radar intelligence information collection. IV, V(L) - Plan and train.	F	F	F	L	L
INT 1.11	Maintain radar scope photography capability. IV, V(L) - Plan and train.	F	F	F	L	L
INT 2 PROVIDE INTELLIGENCE.						
INT 2.1	Maintain intelligence summary plots on air, surface and subsurface activities. NOTE: Flag configured with staff embarked.	F	F	F	F	F
INT 2.2	Evaluate and disseminate intelligence information. NOTE: Flag configured with staff embarked.	F	F	F	F	F
INT 2.4	Establish and maintain access	L	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	to naval and national intelligence sources. NOTE: Flag-configured with staff embarked. I, IA, III, IV, V(L) - Requires reliable Secret Internet Protocol Router Network (SIPRNET) access to Intelink-S).					
INT 3	CONDUCT SURVEILLANCE AND RECONNAISSANCE.					
INT 3.2	Conduct overt surveillance and reconnaissance operations.	F	F	F	F	F
INT 4	CONDUCT OCEAN SURVEILLANCE OPERATIONS AGAINST TARGETS OF INTEREST.					
INT 4.1	Detect and locate targets of interest. V(L) - Plan and train.	F	F	F	F	L
INT 4.2	Classify and identify targets of interest. V(L) - Plan and train.	F	F	F	F	L
INT 4.3	Track targets of interest. V(L) - Plan and train.	F	F	F	F	L
INT 4.4	Plan/direct ocean surveillance operations against targets of interest. NOTE: Flag-configured with staff embarked.	F	F	F	F	
INT 5	PROCESS OCEAN SURVEILLANCE INFORMATION.					
INT 5.1	Integrate and correlate ocean	F	F	F	F	

LPD 4 CLASS		I	IA	III	IV	V
	surveillance information with other source information and intelligence. NOTE: Flag-configured with staff embarked.					
INT 5.2	Disseminate integrated all-source information to all levels of command. NOTE: Flag-configured with staff embarked.	F	F	F	F	
INT 6 CONDUCT SURFACE RECONNAISSANCE.						
INT 6.1	Conduct surface patrols or barriers. IV, V(L) - Plan and train.	F		F	L	L
INT 6.3	Conduct reconnaissance of surface forces. IV, V(L) Plan and train.	F		F	L	L
INT 6.6	Plan/direct surface reconnaissance operations. IV, V(L) - Plan and train.	F	F	F	L	L
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. III, IV(L) - Capability provided by bridge watch team and aft lookouts. V(L) - Plan and train.	F	F	L	L	L
INT 7 SUPPORT/CONDUCT AIRBORNE RECONNAISSANCE.						

LPD 4 CLASS		I	IA	III	IV	V
INT 7.1	Support/conduct unarmed reconnaissance (weather, visual, battle damage assessment, etc.). I, IA, III, IV(L) - Capability limited to supporting aircraft from embarked aviation squadrons.	L	L	L	L	
INT 7.3	Recognize by sight friendly and enemy aircraft, ships, submarines, missile systems, sensors and ground vehicles which may be encountered in the operating areas. I, IA, III, IV(L) - Capability limited to supporting aircraft from embarked aviation squadrons. V(L) - Plan and train.	L	L	L	L	L
INT 8	PROCESS SURVEILLANCE AND RECONNAISSANCE INFORMATION. V(L) - Plan and train.	F		F	F	L
INT 9	DISSEMINATE SURVEILLANCE AND RECONNAISSANCE INFORMATION. V(L) - Plan and train.	F		F	F	L
INT 10	OPERATE A CONTINGENCY PLANNING CELL TO SUPPORT FLEET COMMANDERS.					
INT 10.1	Provide contingency operation support briefings to deploying/deployed naval forces. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	

LPD 4 CLASS		I	IA	III	IV	V
INT 10.2	Maintain a current tactical intelligence library.	F	F	F	F	F
INT 10.3	Support contingency planning cell. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 11 OPERATE A SPECIAL INTELLIGENCE COMMUNICATIONS CENTER.	 NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 13 DEVELOP, DISSEMINATE AND MONITOR A FORCE CRYPTOLOGIC COVERAGE PLAN.						
INT 13.1	Establish and monitor for special intelligence voice and data communications. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 13.2	Interface with shore and combined/joint cryptologic support activities. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 13.3	Provide intelligence and cryptologic support to the C2W commander. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 13.4	Develop and disseminate local use cryptological code word. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 15 PROVIDE INTELLIGENCE SUPPORT FOR						

LPD 4 CLASS		I	IA	III	IV	V
NONCOMBATANT EVACUATION OPERATIONS (NEO) .						
INT 15.1	Collect and integrate intelligence in support of NEO. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 15.2	Disseminate integrated all-source intelligence to NEO participants. NOTE: Flag-configured with staff embarked.	F/E	F/E	F/E	F/E	
INT 15.3	Debrief evacuees.	F	F	F	F	
INT 17 REPAIR OWN UNIT'S INTELLIGENCE-RELATED EQUIPMENT.	 NOTE: During condition III, full capability provided by on-call/off-watch personnel. I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.	L	L	F/A	F	F
INT 19 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S INT CAPABILITIES.	 I, IA(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 CSOOW/combat	L	L	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	systems maintenance supervisor and electronics support supervisor. V(L) - Plan and train.					
LOGISTICS (LOG)						
LOG 1 CONDUCT UNDERWAY REPLENISHMENT.						
LOG 1.1	Transfer ammunition underway. V(L) - Plan and train.			F	F	L
LOG 1.2	Transfer ammunition underway by standard tensioned replenishment alongside method (STREAM). V(L) - Plan and train.			F	F	L
LOG 1.3	Transfer cargo underway. V(L) - Plan and train.			F	F	L
LOG 1.4	Transfer cargo underway by STREAM. V(L) - Plan and train.			F	F	L
LOG 1.7	Transfer diesel fuel marine (DFM) underway by alongside/astern method. NOTE: Alongside method only. V(L) - Plan and train.			F	F	L
LOG 1.8	Transfer DFM underway by STREAM. V(L) - Plan and train.			F	F	L
LOG 1.12	Replenish other units underway with limited fuel, provisions, munitions, potable and feed water.			F	L	L

LPD 4 CLASS		I	IA	III	IV	V
IV, V(L) - Plan and train.						
LOG 2 TRANSFER/RECEIVE CARGO AND PERSONNEL.						
LOG 2.2	Provide facilities and personnel for material, mail, and passenger handling.			F	F	F
LOG 2.4	Transfer and receive personnel by helo.			F/E	F/E	F/E
LOG 2.5	Transfer personnel and light freight by highline.			F	L	L
IV, V(L) - Plan and train.						
LOG 3 PROVIDE SEALIFT FOR CARGO AND PERSONNEL.						
LOG 3.1	Provide stowage and berthing spaces for equipment and personnel during transit.			F	F	L
V(L) - Plan and train.						
LOG 3.2	Provide small boat services for transfer of personnel, cargo, weapons, provisions, and supplies.			F	F	L
V(L) - Plan and train.						
LOG 3.3	Provide the capability for air cushion vehicle transfer of personnel, cargo, weapons, provisions and supplies.			F/E	F/E	L
V(L) - Plan and train.						
LOG 3.4	Plan/direct sealift for cargo and personnel. Coordinate with logistics coordinator.			F	F	L
V(L) - Plan and train.						

LPD 4 CLASS		I	IA	III	IV	V
LOG 4	SUPPORT SHIPS AND AIRCRAFT IN SUPPLIES, ORDNANCE, AND OTHER SERVICES.					
LOG 4.1	Provide fuel and lubricating oil to another unit.					F/A
LOG 4.4	Provide another unit with: (a) Steam. (b) Electrical power. (e) Fresh water. (f) Feed water.					F/A
LOG 8	CONDUCT MATERIAL CONTROL OPERATIONS.					
LOG 8.1	Screen material for all units in the group. V(L) - Plan and train.			F	F	L
LOG 8.2	Consolidate receipt and transshipment of all group cargo and mail, including off-ship cargo operations in support of embarked forces. V(L) - Plan and train.			F	F	L
LOG 8.3	Control all passenger movement to and from the group. V(L) - Plan and train.			F	F	L
LOG 9	REPAIR OWN UNIT'S LOGISTICS EQUIPMENT.	L	L	F/A	F	F
	NOTE: During condition III, full capability provided by on-call/off-watch personnel. I, IA(L) - Emergency repairs to equipment critical to ship's mission. All critical combat system spaces manned with at least one technician in each					

LPD 4 CLASS	I	IA	III	IV	V
space.					
<p>LOG 10 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S LOG CAPABILITIES.</p> <p>I, IA(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>	L	L	L	L	L
MINE WARFARE (MIW)					
MIW 3 CONDUCT MINE NEUTRALIZATION/DESTRUCTION.					
<p>MIW 3.6 Provide support for embarked explosive ordnance disposal (EOD) and sea, air, land (SEAL).</p> <p>NOTE: Facilities only.</p>	F	F	F	F	F
MIW 5 SUPPORT/CONDUCT OFFENSIVE/DEFENSIVE SERVICE AND EXERCISE MINE LAYING OPERATIONS.					
<p>MIW 5.4 Support/conduct service and exercise mine laying operations by aircraft in a non-hostile environment.</p> <p>NOTE: When AMCM squadron/DET embarked.</p>			F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	IV, V(L) - Plan and train.					
MIW 6	CONDUCT MAGNETIC SILENCING (DEGAUSSING, DEPERMING, ETC.).					
MIW 6.7	Maintain magnetic signature limits.	F	F	F	F	F
MIW 9	CONDUCT AMCM AND SUPPORT MIW OPERATIONS.					
MIW 9.1	Conduct day helo AMCM flight operations. I(L) - When AMCM squadron/DET embarked, 1 of 4 spots only. To achieve full flight operations capability at condition I, flight quarters manning must be augmented from other battle stations. IV, V(L) - Plan and train.	L		F/E	L	L
MIW 9.5	Conduct helo flight operations during all EMCON conditions. I(L) - When AMCM squadron/DET embarked, 1 of 4 spots only. To achieve full flight operations capability at condition I, flight quarters manning must be augmented from other battle stations. IV, V- Plan and train.	L		F/E	L	L
MIW 9.6	Conduct helo hot and cold refueling. I(L) - One refueling spot only; this limited flight quarters manning must be augmented from other battle stations.	L		F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	IV, V(L) Plan and train.					
MIW 9.7	Serve as helo haven. I(L) - When AMCM squadron/DET embarked, 1 of 4 spots only. To achieve full flight operations capability at condition I, flight quarters manning must be augmented from other battle stations.	L		F/E	L	L
	IV, V(L) Plan and train.					
MIW 9.8	Provide electrical power for helo starting, testing, etc.	F	F	F	F	F
MIW 9.9	Provide ground handling equipment for loading and spotting helos. I(L) - One tow tractor and one aircraft director only; to achieve full capability, flight quarters manning must be augmented from other battle stations.	L		F/E	F/E	F/E
MIW 9.13	Launch fixed-wing and/or rotary-wing aircraft involved in MIW operations. I(L) - When AMCM squadron/DET embarked, 1 of 4 spots only. To achieve full flight operations capability at condition I, flight quarters manning must be augmented from other battle stations.	L		F/E	L	L
	IV, V(L) - Plan and train.					
MIW 9.14	Recover fixed-wing and/or rotary-wing aircraft involved in MIW operations.	L		F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>I(L) - When AMCM squadron/DET embarked, 1 of 4 spots only. To achieve full flight operations capability at condition I, flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>					
MIW 9.17	<p>Load/unload MIW ordnance compatible with required aircraft turnaround time.</p> <p>NOTE: Full capability assumes AMCM squadron/DET LFORM class V(A) loaded. When AMCM squadron/DET embarked for amphibious operations.</p> <p>NOTE: Ship's company responsible for breakout/strike down, assembly/disassembly and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation ordnance on/from aircraft and movement of aviation ordnance to/from the staging area.</p> <p>IV, V(L) - Plan and train.</p>	F		F/E	L	L
MIW 13 REPAIR OWN UNIT'S MIW EQUIPMENT.	<p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I, IA(L) - Emergency repairs to</p>	L	L	F/A	F	F

LPD 4 CLASS		I	IA	III	IV	V
	equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.					
MIW 15 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S MIW CAPABILITIES.		L	L	L	L	L
	<p>I, IA(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>					
MOBILITY (MOB)						
MOB 1 OPERATE SHIP'S PROPULSION PLANT TO DESIGNED CAPABILITY.						
MOB 1.1	Operate ship's propulsion plant at full power.	F	F	F	F	L
	V(L) - Plan and train.					
MOB 1.2	Operate ship's propulsion plant with split plant operations.	F	F	F	F	L
	V(L) - Plan and train.					
MOB 1.5	Operate at sustained BG/surface action group/underway readiness group/amphibious force speeds.	F	F	F	F	L
	V(L) - Plan and train.					

LPD 4 CLASS		I	IA	III	IV	V
MOB 1.6	Maintain necessary machinery redundancy to enhance survival in high threat areas.	F	F	F	F	F
MOB 1.7	Transit at high speed. V(L) - Plan and train.	F		F	F	L
MOB 2	SUPPORT/PROVIDE SAFE FLYABLE AIRCRAFT FOR ALL-WEATHER CONDITIONS.	F	F	F	F	F
MOB 3	PREVENT AND CONTROL DAMAGE.					
MOB 3.1	Control fire, flooding, electrical, structural, propulsion, and hull/airframe casualties. IA(L) - Repair organization manned with nucleus crew composed of supervisor, talkers, investigators, etc. Full capability will not exist until condition I stations fully manned. III, IV(L) - At-sea fast reaction team manned by off-watch personnel. V(L) - Capability limited to in port damage control parties augmented by off-watch personnel.	F	L/E	L/E	L/E	L/E
MOB 3.2	Counter and control CBR contaminants/agents. IA(L) - Repair organization manned with nuclear crew composed of supervisor, talkers, investigators, etc. Full capability will not exist until condition I stations fully manned.	F	L/E	L/E	L/E	L/E

LPD 4 CLASS		I	IA	III	IV	V
	<p>III, IV(L) - At-sea fast reaction team manned by off-watch personnel.</p> <p>V(L) - Capability limited to in port damage control parties augmented by off-watch personnel.</p>					
MOB 3.3	Maintain security against unfriendly acts.	F	F	F	F	F
MOB 3.5	Provide damage control security/surveillance.	F	F	F	F	F
MOB 3.8	Provide emergency breathing devices per ship's allowance.	F	F	F	F	F
MOB 5	MANEUVER IN FORMATION.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 7	PERFORM SEAMANSHIP, AIRMANSHIP, AND NAVIGATION TASKS.					
MOB 7.1	Navigate under all conditions of geographic location, weather and visibility.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 7.2	Conduct precision anchoring.	F/A	F	F/A	L	L
	NOTE: During condition I, stand down other battle stations. During condition III, requires augmentation from off-watch personnel.					
	IV, V(L) - Plan and train.					
MOB 7.3	Get underway, moor, anchor, and sortie with duty section in a safe manner.					L

LPD 4 CLASS		I	IA	III	IV	V
	V(L) - Deployed, duty section fully capable. Not deployed, recall of personnel required.					
MOB 7.6	Abandon/scuttle ship rapidly. IV, V(L) - Plan and train.	F			L	L
MOB 7.7	Provide life boat/raft capacity per unit's allowance.	F	F	F	F	F
MOB 7.8	Tow or be towed (towing engine not required). NOTE: During condition I, stand down other battle stations. During condition III, requires augmentation from off-watch personnel. IV, V(L) - Plan and train.	F/A		F/A	L	L
MOB 7.9	Operate day and night and under all weather conditions. V(L) - Plan and train.	F	F	F	F	L
MOB 7.10	Conduct undetected transits. IV, V(L) - Plan and train.	F	F	F	L	L
MOB 7.15	Operate in a chemically contaminated environment. IV, V(L) - Plan and train.	F	F	F	L	L
MOB 7.16	Recover man overboard (shipboard, boat or helo). NOTE: Noncombat, day light operations only. Night SAR capability with the use of night SAR-capable helo from embarked squadron. I, IA(L) - Selected personnel	L/E	L/E	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
	must stand down from condition I or IA stations to man SAR boat or deck recovery details.					
MOB 10 REPLENISH AT SEA.						
MOB 10.1	Receive vertical replenishment.			F	F	F
MOB 10.2	Receive fuel while underway (alongside method). IV, V(L) - Plan and train.			F	L	L
MOB 10.3	Receive munitions and provisions while underway. IV, V(L) - Plan and train.			F	L	L
MOB 10.4	Receive potable and/or feed water while underway. IV, V(L) - Plan and train.			F	L	L
MOB 10.5	Receive carrier onboard delivery/vertical onboard delivery (VOD) aircraft. I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations. NOTE: VOD aircraft only. V(L) - Plan and train.	L	F	F/E	F/E	L
MOB 12 MAINTAIN THE HEALTH AND WELL-BEING OF THE CREW.						
MOB 12.1	Ensure all phases of food service operations are conducted consistent with approved sanitary procedures and standards. I, IA(L) - Battle messing only.	L	L	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
MOB 12.2	Ensure the operation of the potable water system in a manner consistent with approved sanitary procedures and standards.	F	F	F	F	F
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.			F	F	F
MOB 12.5	Monitor the health and well-being of the crew to ensure that habitability is consistent with approved habitability procedures and standards.			F	F	F
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 Navy directives pertaining to the prevention of pollution of the environment.			F	F	F
MOB 12.7	Provide individual protective clothing and equipment to sufficiently protect casualties in case of CBR contamination. IV, V(L) - Plan and train.	F	F	F	L	L
MOB 12.8	Provide individual protective clothing and equipment to sufficiently protect shipboard personnel identified being at risk in a CBR-contaminated environment.	F	F	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
	IV, V(L) - Plan and train.					
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.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 12.10	Provide CBR collective protective system for medical and support spaces.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 12.11	Provide antidotes to staff, patients and casualties which will counteract the effects caused by a CBR-contaminated environment.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 12.12	Provide antidotes to ship's company which will counteract the effects caused by a CBR-contaminated environment.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 12.13	Train designated medical supervisors and non-medical personnel to detect CBR-contaminated casualties.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 12.14	Train designated non-medical personnel to decontaminate CBR casualties.	F	F	F	L	L
	IV, V(L) - Plan and train.					
MOB 12.15	Identify, supply, and maintain	F	F	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
decontamination stations.						
IV, V(L) - Plan and train.						
MOB 17 PERFORM ORGANIZATIONAL LEVEL REPAIRS TO OWN UNIT'S MOB EQUIPMENT.		L	L	F/A	F	F
NOTE: During condition III, full capability provided by on-call/off-watch personnel.						
I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from condition I or IA stations.						
MOB 18 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S MOB CAPABILITIES.		L	L	L	L	L
I, IA(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 CSOOW/combat systems maintenance supervisor and electronics support supervisor.						
V(L) - Plan and train.						
MISSIONS OF STATE (MOS)						
MOS 1 PERFORM NAVAL DIPLOMATIC PRESENCE OPERATIONS.						
MOS 1.1	Establish a sovereign, mobile sea base in a forward area.	F	F	F	F	L
V(L) - Plan and train.						

LPD 4 CLASS		I	IA	III	IV	V
MOS 1.2	Conduct force/unit tour for foreign dignitaries.			F	F	F
MOS 1.3	Conduct systems weapons demonstrations for foreign dignitaries.			F	F	F
MOS 1.4	Conduct foreign port calls.					F
MOS 1.5	Conduct force/unit tours for foreign citizens during port calls.					F
MOS 1.6	Conduct receptions for foreign dignitaries during port calls.					F
MOS 1.7	Provide volunteers for small project assistance during port calls.					F
MOS 1.8	Participate in military exercises with allied nations.			F	F	F
MOS 1.9	Participate in military exercises with nonallied nations.			F	F	F
MOS 1.10	Participate in or provide participants for foreign/allied commemorative or ceremonial events.				F	F
MOS 1.11	Provide lift of opportunity for foreign or national diplomatic material. III, IV, V(L) - Quantities that do not interfere with the regular combat capabilities or logistics load.			L	L	L
MOS 2 PROVIDE HUMANITARIAN ASSISTANCE.						
MOS 2.1	Deliver relief material. III, IV, V(L) - Quantities that do not interfere with the regular combat capabilities or			L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	logistics load.					
MOS 2.2	Provide emergency flooding/firefighting assistance.			F/E	F/E	F/E
MOS 2.4	Provide disaster assistance and evacuation.			F/E	F/E	F/E
MOS 2.9	Plan, direct and coordinate disaster assistance evacuation.			F	F	F
MOS 2.10	Support/provide for the evacuation of noncombatant personnel in areas of civil or international crisis.			F	F	F
MOS 2.11	Support/conduct helo/boat evacuation of noncombatant personnel as directed by higher authority from areas of civil or international crisis. I, IA(L) - Selected personnel must stand down from their condition I or IA stations to man NEO stations.	L	L	F/E	F/E	F/E
MOS 2.12	Provide for embarkation, identification and processing of evacuees.			F/A	F/A	F/A
MOS 2.13	Provide care, feeding and berthing of evacuees. I, IA(L) - Battle messing and emergency care only.	L	L	F/A	F/A	F/A
MOS 2.14	Provide transportation for evacuees to designated safe havens or onward processing centers.	F	F	F	F	F
MOS 2.15	Plan/direct the evacuation of noncombat personnel in areas of civil or international crisis in both a permissive and non-	F	F	F	F	F

LPD 4 CLASS		I	IA	III	IV	V
permissive environment (including joint/combined operations).						
MOS 3 PERFORM PEACEKEEPING.						
MOS 3.3	Provide direct participation in a joint/allied peacekeeping force within a foreign country/region. NOTE: Full capability with embarked troops.	F	F	F	F	F
MOS 4 PERFORM INTERDICTION.						
MOS 4.1	Conduct naval blockade. IV, V(L) - Plan and train.	F		F	L	L
MOS 4.2	Conduct quarantine operations. IV, V(L) - Plan and train.	F		F	L	L
MOS 4.3	Enforce sanctions enforcement operations. IV, V(L) - Plan and train.	F		F	L	L
MOS 4.4	Conduct maritime interception operations and/or visit, board, search, and seizure operations with naval/combined/joint forces. NOTE: Sustained operations require certified non-compliant boarding team(s) or law enforcement DET. IV, V(L) - Plan and train.	F/E	F/E	F/E	L	L
NONCOMBAT OPERATIONS (NCO)						
NCO 2 PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.						

LPD 4 CLASS		I	IA	III	IV	V
NCO 2.1	Provide supply support services. I, IA(L) - Emergency supply support services.	L	L	F	F	F
NCO 2.2	Provide clerical services.			F	F	F
NCO 2.3	Provide disbursing services.			F	F	F
NCO 2.4	Provide post office services.			F	F	F
NCO 2.5	Provide messing facilities. I, IA(L) - Battle messing only.	L	L	F	F	F
NCO 2.6	Provide ship's service facilities.			F	F	F
NCO 2.7	Provide inventory and custodial services.			F	F	F
NCO 2.8	Provide personnel for living space maintenance.			F	F	F
NCO 2.9	Provide personnel for area command security.	F	F	F	F	F
NCO 2.11	Provide personnel for fuels support. I(L) - To achieve full capability, fuels personnel assigned to other condition I stations must be reassigned to fuel stations.	L	F	F	F	F
NCO 3 PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.						
NCO 3.1	Provide organizational level preventative maintenance.			F	F	F
NCO 3.2	Provide organizational level corrective maintenance. NOTE: During condition III, full capability provided by on-call/off-watch personnel.	L	L	F/A	F	F

LPD 4 CLASS		I	IA	III	IV	V
	I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.					
NCO 3.3	Provide small arms storage area.	F	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 material.			F	F	F
NCO 4	PROVIDE CLOSED-CIRCUIT TELEVISION SUPPORT FOR OWN UNIT.			F	F	F
NCO 5	CONDUCT METEOROLOGICAL, HYDROGRAPHIC AND/OR OCEANOGRAPHIC COLLECTION OPERATIONS OR SURVEYS.					
NCO 5.1	Collect and disseminate meteorological information. IV, V(L) - Plan and train.	F	F	F	L	L
NCO 5.2	Collect and disseminate hydrographic information. IV, V(L) - Plan and train.	F	F	F	L	L
NCO 7	PROVIDE SPECIAL TECHNICAL RESEARCH.					
NCO 7.1	Serve as a platform for special technical research operations.			F	F	F
NCO 7.2	Conduct special technical research operations. NOTE: Embarkation of technical support personnel required.			F/A	F/A	F/A
NCO 8	SERVE AS A PLATFORM FOR OPERATIONAL					

LPD 4 CLASS		I	IA	III	IV	V
TEST AND EVALUATION OF SYSTEMS, EQUIPMENT AND TACTICS.						
NCO 8.1	Provide technical assistance for installed test and evaluation equipment.			F/A	F/A	F/A
NCO 8.2	Perform the test and evaluation functions set forth in the appropriate test plans.			F/A	F/A	F/A
NCO 8.3	Perform the evaluation functions set forth in appropriate tactical memorandums.			F/A	F/A	F/A
NCO 9 SUPPORT/CONDUCT SPACE VEHICLE RECOVERY OPERATIONS.						
NCO 9.1	Perform associated communications functions. V(L) - Plan and train.			F	F	L
NCO 9.3	Support/perform sea recovery of space vehicles. V(L) - Plan and train.			F	F	L
NCO 10 PROVIDE EMERGENCY/DISASTER ASSISTANCE.						
NCO 10.1	Provide emergency flooding/firefighting assistance to another unit. NOTE: Provide repair party/special teams as required. Full capability when rescue and assistance party is called away. Augmentation by off-watch personnel may be required to sustain effort.			F/E	F/E	F/E
NCO 10.3	Provide EOD assistance. NOTE: Full capability assumes	F/E	F/E	F/E	F/E	F/E

LPD 4 CLASS		I	IA	III	IV	V
	EOD DET embarked. EOD assistance available on a not-to-interfere basis with EOD primary mission. Assistance available may be further limited by constrained inventory of technical documents and tools.					
NCO 10.4	Provide disaster assistance and evacuation. NOTE: Full capability when rescue and assistance party is called away. Augmentation by off-watch personnel may be required to sustain effort.			F/E	F/E	F/E
NCO 10.5	Clear and repair utilities and facilities damaged by natural disaster, fire and civil disturbance; decontaminate CBR effects. NOTE: Full capability when rescue and assistance party is called away. Augmentation by off-watch personnel may be required to sustain effort.			F/E	F/E	F/E
NCO 11 SUPPORT/PROVIDE FOR THE EVACUATION OF NONCOMBATANT PERSONNEL IN AREAS OF CIVIL OR INTERNATIONAL CRISIS.						
NCO 11.1	Support/conduct helo/boat evacuation of noncombatant personnel as directed by higher authority from areas of civil or international crisis. I, IA(L) - Selected personnel must stand down from their condition I or IA stations to man NEO stations.	L	L	F/E	F/E	F/E

LPD 4 CLASS		I	IA	III	IV	V
NCO 11.2	Provide for embarkation, identification and processing of evacuees.			F/A	F/A	F/A
NCO 11.3	Provide care, feeding and berthing of evacuees. I, IA(L) - Battle messing and emergency care only.	L	L	F/A	F/A	F/A
NCO 11.4	Provide transportation for evacuees to designated safe havens or onward processing centers.	F	F	F	F	F
NCO 19 CONDUCT MARITIME LAW ENFORCEMENT OPERATIONS.						
NCO 19.1	Detect and identify noncombatant vessels. V(L) - Plan and train.	F		F	F	L
NCO 19.2	Conduct boarding and inspection of noncombatant vessels. NOTE: Sustained operations require certified non-compliant boarding team(s) or law enforcement DET. IV, V(L) - Plan and train.	F/E		F/E	L	L
NCO 19.3	Provide assistance to other law enforcement forces. V(L) - Plan and train.			F/A	F/A	L
NCO 19.4	Provide surveillance and protection of maritime resources. IV, V(L) - Plan and train.	F		F	L	L
NCO 19.6	Conduct seizure of noncombatant vessels.	F/E		F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
<p>NOTE: Sustained operations require certified non-compliant boarding team(s) or law enforcement DET.</p> <p>IV, V(L) - Plan and train.</p>						
NCO 19.9	<p>Conduct drug traffic suppression and interdiction operations.</p> <p>Sustained operations require certified non-compliant boarding team(s) or law enforcement DET.</p> <p>IV, V(L) - Plan and train.</p>	F/E		F/E	L	L
NCO 24 SUPPORT/CONDUCT ROTARY WING/V/STOL AIRCRAFT OPERATIONS.						
NCO 24.1	<p>Support/conduct day rotary wing/V/STOL aircraft flight operations.</p> <p>I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
NCO 24.2	<p>Support/conduct night rotary wing/V/STOL aircraft flight operations.</p> <p>I(L) - 1 of 4 spots only, this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
NCO 24.3	Support/conduct rotary	F	F	F	L	L

LPD 4 CLASS		I	IA	III	IV	V
	wing/V/STOL aircraft flight operations during all EMCON conditions. IV, V(L) - Plan and train.					
NCO 24.4	Support/conduct rotary wing/V/STOL aircraft hot and cold refueling operations. I(L) - One refueling spot only; this limited flight quarters manning must be augmented from other battle stations. IV, V(L) - Plan and train.	L	F	F/E	L	L
NCO 24.5	Provide electrical power for rotary wing/V/STOL aircraft starting, testing, etc.	F	F	F	F	F
NCO 24.6	Provide ground handling equipment for loading and spotting rotary wing/V/STOL aircraft. I(L) - One tow tractor and one aircraft director only. This limited flight quarters manning must be augmented from other battle stations.	L	F	F/E	F/E	F/E
NCO 25 CONDUCT MARINE ENVIRONMENTAL PROTECTION.						
NCO 25.1	Detect oil or hazardous chemical spill.			F	F	F
NCO 25.2	Report spills to proper authority.			F	F	F
NCO 25.3	Conduct pollution abatement operations.			F	F	F
NCO 32 CONDUCT COUNTER NARCOTIC AND OTHER LAW ENFORCEMENT SUPPORT OPERATIONS						

LPD 4 CLASS		I	IA	III	IV	V
IN CONJUNCTION WITH OTHER FORCES.						
NCO 32.1	Conduct/support operations with Coast Guard units. V(L) - Plan and train.	F		F	F	L
NCO 32.2	Conduct/support operations with other federal law enforcement agencies. V(L) - Plan and train.	F		F	F	L
NCO 32.4	Conduct operations with other national governments. V(L) - Plan and train.	F		F	F	L
NCO 33 SUPPORT/PROVIDE COUNTER NARCOTICS AND OTHER LAW ENFORCEMENT SUPPORT PATROL OF A FIXED GEOGRAPHIC AREA.						
NCO 33.1	Operate as choke point patrol unit. V(L) - Plan and train.	F		F	F	L
NCO 33.2	Operate as an open ocean patrol unit. V(L) - Plan and train.	F		F	F	L
NCO 34 IN SUPPORT OF COUNTERNARCOTICS AND OTHER LAW ENFORCEMENT OPERATIONS, DETECT AND MONITOR SUSPECT SURFACE CONTACTS.						
NCO 34.1	Detect and monitor surface contacts with radar. III, IV(L) - Radar operator and dead reckoning tracer (DRT) operator co-manned from other CIC watch stations. V(L) - Plan and train.	F		L	L	L

LPD 4 CLASS		I	IA	III	IV	V
NCO 34.2	<p>Detect and monitor surface contacts visually.</p> <p>III, IV(L) - Capability provided by bridge watch team and aft lookouts.</p> <p>V(L) - Plan and train.</p>	F		L	L	L
NCO 34.3	<p>Detect and monitor surface contacts with infrared equipment.</p> <p>III, IV(L) - Capability provided by bridge watch team and aft lookouts.</p> <p>V(L) - Plan and train.</p>	F		L	L	L
NCO 34.4	<p>Detect and monitor surface contacts with ES methods.</p> <p>NOTE: Able to track surface contacts with assistance of another ship or ES equipped aircraft.</p> <p>III, IV(L) - Supervisor and system operator positions only for search and identification of non-communication signals. Location and targeting requires augmentation.</p> <p>V(L) - Plan and train.</p>	F		L	L	L
NCO 36 IN SUPPORT OF COUNTERNARCOTICS AND OTHER LAW ENFORCEMENT OPERATIONS, DETECT AND MONITOR SUSPECT AIR CONTACTS.						
NCO 36.1	<p>Detect and monitor air contacts with radar.</p>	F		F	F	L

LPD 4 CLASS		I	IA	III	IV	V
	V(L) - Plan and train.					
NCO 36.2	Detect and monitor air contacts visually. III, IV(L) - Capability provided by bridge watch team and aft lookouts. V(L) - Plan and train.	F		L	L	L
NCO 36.3	Detect and monitor air contacts by ES measures. III, IV(L) - Supervisor and system operator position only for search and identification of non-communication signals. Location and targeting requires augmentation. V(L) - Plan and train.	F		L	L	L
NCO 37 EMBARK AND SUPPORT LAW ENFORCEMENT DETs.		F		F	F	F
NCO 38 RECEIVE, DISPLAY, AND MAINTAIN COUNTER NARCOTIC INTELLIGENCE DATA.		F		F	F	F
NAVAL SPECIAL WARFARE (NSW)						
NSW 7 SUPPORT RAIDING PARTIES.						
NSW 7.1	Provide logistic support and facilities for raiding parties.	F	F	F	F	F
NSW 7.2	Provide logistic support, facilities and mobility for special forces (landing force reconnaissance units or special operations forces).	F	F	F	F	F
NSW 7.3	Provide surface and/or air defense during launch and recovery of NSW forces.	F	F	F	F	F
NSW 14 REPAIR OWN UNIT'S NSW EQUIPMENT.		L	L	F/A	F	F

LPD 4 CLASS		I	IA	III	IV	V
<p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.</p>						
SURFACE WARFARE (SUW)						
ASU 1 USING ANTISURFACE (ASU) ARMAMENTS, ENGAGE SURFACE THREATS.						
ASU 1.6	<p>Engage surface ships with minor caliber gunfire (i.e., 25 mm, 20 mm, .50 cal, .30 cal).</p> <p>I, IA(L) - Man two 25 mm and two .50 cal mounts. Manning additional .50 cal mounts requires securing personnel from other condition I or IA stations.</p> <p>IV, V(L) - Plan and train.</p>	L	L	F/A	L	L
ASU 1.11	<p>Employ self-defense torpedo countermeasures using:</p> <p>(a) NIXIE.</p> <p>IV, V(L) - Plan and train.</p>	F	F	F	L	L
ASU 4 DETECT, IDENTIFY, LOCALIZE AND TRACK SURFACE SHIP TARGETS.						
ASU 4.1	<p>Detect, localize and track surface contacts with radar.</p> <p>III, IV(L) - Radar operator and DRT operator co-manned from</p>	F	F	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	other CIC watch stations. V(L) - Plan and train.					
ASU 4.4	Detect, identify, classify and track surface contacts visually. III, IV(L) - Capability provided by bridge watch team and aft lookouts. V(L) - Plan and train.	F	F	L	L	L
ASU 4.5	Detect, identify, and track surface contacts with infrared equipment. III, IV(L) - Capability provided by bridge watch team and aft lookouts. V(L) - Plan and train.	F	F	L	L	L
ASU 4.6	Detect, identify, classify, and track surface contacts by ESM. NOTE: Able to track surface contacts with assistance of another ship or ES equipped aircraft. III, IV(L) - Supervisor and system operator positions only for search and identification of non-communication signals. Location and targeting requires augmentation. V(L) - Plan and train.	F	F	L	L	L
ASU 4.7	Identify surface contacts. III, IV(L) - Capability	F	F	L	L	L

LPD 4 CLASS		I	IA	III	IV	V
	provided by bridge watch team and aft lookouts. V(L) - Plan and train.					
ASU 4.13	Detect, identify and track surface contacts with night vision goggles. I, 1A, III, IV(L) - Night vision goggles are available to bridge watch team. V(L) - Plan and train.	L	L	L	L	L
ASU 6 DISENGAGE, EVADE, AND AVOID SURFACE ATTACK.						
ASU 6.1	Employ countermeasures. (b) Lighting configuration. (c) Hull markings. V(L) - Plan and train.	F	F	F	F	L
ASU 6.2	Employ evasion techniques. V(L) - Plan and train.	F	F	F	F	L
ASU 6.3	Employ EMCON procedures. V(L) - Plan and train.	F	F	F	F	L
ASU 6.4	Detect, identify and track surface targets to perform contact avoidance using ESM or (radar direction finder/combataction direction finder/ Organizational Unit Tactical Baseline Operational Area Radio Detection (OUTBOARD)). V(L) - Plan and train.	F	F	F	F	L
ASU 6.5	Plan/direct disengagement, evasion, and avoidance of	F	F	F	F	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>surface attack.</p> <p>V(L) - Plan and train.</p>					
ASU 8	<p>PROVIDE FOR AIR OPERATIONS TO SUPPORT SURFACE ATTACKS.</p> <p>NOTE: Emergency ASU capability when AH-1 aircraft embarked. AH-1 not suitable for routine force ASU combat air patrol assignment.</p> <p>NOTE: Use of USMC aircraft in support of Navy functions will occur only as specified in support of emergency force protection and defense of unit/units.</p>					
ASU 8.1	<p>Launch fixed and/or rotary wing aircraft.</p> <p>I(L) - 1 of 4 spots only; this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
ASU 8.2	<p>Recover fixed and/or rotary wing aircraft.</p> <p>I(L) - 1 of 4 spots only; this limited flight quarters manning must be augmented from other battle stations.</p> <p>IV, V(L) - Plan and train.</p>	L	F	F/E	L	L
ASU 8.5	<p>Provide conventional ordnance within required aircraft turnaround times.</p>	F	F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>NOTE: Full capability assumes AH-1 LFORM class V(A) loaded when AH-1 embarked for amphibious operations.</p> <p>NOTE: Ship's company responsible for breakout/strike down, assembly/disassembly and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation on/from aircraft and movement of aviation ordnance to/from the staging area.</p> <p>IV, V(L) - Plan and train.</p>					
ASU 8.8	<p>Control aircraft under all conditions of active jamming.</p> <p>NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	F/E	L	L
ASU 8.9	<p>Load/unload ordnance within required aircraft turnaround times.</p> <p>NOTE: Full capability assumes AH-1 LFORM class V(A) loaded when AH-1 embarked for amphibious operations.</p> <p>NOTE: Ship's company responsible for breakout/</p>	F	F	F/E	L	L

LPD 4 CLASS		I	IA	III	IV	V
	<p>strike down, assembly/disassembly and movement of aviation ordnance to the staging area/cargo holds. Embarked USMC personnel responsible for load/unload of aviation on/from aircraft and movement of aviation ordnance to/from the staging area.</p> <p>IV, V(L) - Plan and train.</p>					
ASU 8.10	<p>Provide air strike control to direct or assist attack aircraft.</p> <p>NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	F/E	L	L
ASU 11 PERFORM DUTIES OR AIRCRAFT CONTROL UNIT FOR AIRCRAFT INVOLVED IN ASU OPERATIONS.	<p>NOTE: For flag-configured, full capability when TACRON DET is embarked. For non-flag, limited, short duration capability using shared CIC equipment when TACRON DET embarked.</p> <p>IV, V(L) - Plan and train.</p>	F/E	F/E	F/E	L	L
ASU 12 SUPPORT/CONDUCT ESCORTING AND INDEPENDENT ASU OPERATIONS.						
ASU 12.3	Conduct independent ASU	L	L	L	L	L

LPD 4 CLASS	I	IA	III	IV	V
<p>operations.</p> <p>I, II, III(L) - LPDs have only small caliber weapons, and are not capable of engaging more than a small boat threat.</p> <p>IV, V(L) - Plan and train.</p>					
<p>ASU 14 REPAIR OWN UNIT'S ASU EQUIPMENT.</p> <p>NOTE: During condition III, full capability provided by on-call/off-watch personnel.</p> <p>I, IA(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or IA stations.</p>	L	L	F/A	F	F
<p>ASU 17 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S ASU CAPABILITIES.</p> <p>I, IA(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>	L	L	L	L	L