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OPNAV INSTRUCTION 3501.369A

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES AND PROJECTED
OPERATIONAL ENVIRONMENT FOR THE LEWIS AND CLARK
(T-AKE 1) CLASS DRY CARGO AND AMMUNITION SHIP

Ref: (a) OPNAVINST 3501.198C
(b) OPNAVINST C3501.2K (NOTAL)
(c) NTRP 1-03.5

Encl: (1) Projected Operational Environment (POE) for the Lewis
and Clark (T-AKE 1) Class Dry Cargo and Ammunition
Ship
(2) Projected Operational Capabilities (ROC) for the
Lewis and Clark (T-AKE 1) Class Dry Cargo and
Ammunition Ship

1. Purpose. To issue the required operational capabilities (ROC) and projected operational environment (POE) for Lewis and Clark (T-AKE 1) class dry cargo and ammunition ships assigned to the Combat Logistics Force. This instruction is a complete revision and should be reviewed in its entirety. Significant changes include incorporating electronic warfare (EW), force health protection (FHP) and information operations (IO) as separate mission areas and adding additional required capabilities from the strategic sealift (STS) mission area.

2. Cancellation. OPNAVINST 3501.369.

3. Discussion. Reference (a) delineates the ROC and the POE for T-AKE 1 class ships assigned to the Maritime Prepositioning Force (MPF) Program. Enclosures (1) and (2), provide the necessary details to describe the mission areas and operational capabilities for which the (T-AKE 1) class dry cargo and ammunition ship was designed and organized as required by reference (b). This instruction provides resourcing agencies with the information they need concerning T-AKE 1 Class mission requirements, capabilities, and the types and locations of expected operations. Enclosure (2) should be utilized in

determining ROC within each primary and secondary mission area. Primary mission area readiness ratings (M-Ratings) should be reported utilizing the Defense Readiness Reporting System-Navy per reference (c).

4. Action. Fleet commanders must periodically review enclosures (1) and (2) and recommend changes to the Office of the Chief of Naval Operations (OPNAV) Director, Strategic Mobility and Combat Logistics Division (OPNAV N42) when capabilities of the T-AKE 1 class dry cargo and ammunition ship are significantly altered.

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

6. Review and Effective Date. Per OPNAVINST 5215.17A, OPNAV N42 will review this instruction annually on the anniversary of its issuance date to ensure applicability, currency, and consistency with Federal, DoD, SECNAV, and Navy policy and statutory authority using OPNAV 5215/40. This instruction will automatically expire 5 years after its issuance date unless reissued or canceled prior to the 5-year anniversary date, or an extension has been granted.



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PROJECTED OPERATIONAL ENVIRONMENT (POE)
FOR
LEWIS AND CLARK (T-AKE 1) CLASS DRY CARGO AND AMMUNITION SHIP

1. The Lewis and Clark (T-AKE 1) class dry cargo and ammunition ship's mission is to operate logistically in a high-density multi-threat environment as a replenishment ship to a carrier trike group (CSG), surface action group (SAG), or amphibious ready group (ARG) and when operating in concert with a fleet replenishment oiler (T-AO), to act as the station ship for a CSG.

2. The most demanding operating environment anticipated for the T-AKE 1 is operations at sea in wartime in cooperation with designated joint and allied forces, including operations involving land and sea-based aviation.

3. Peacetime forward operations in littoral areas are equally demanding. These operations are frequently characterized by confined and congested water and air space occupied by friends, adversaries, and neutrals - making identification and coordination profoundly difficult. In this environment, adversaries can concentrate and layer their defenses. In an era when some third world countries possess sophisticated weaponry, surprise attack by submarines, coastal missiles, mines, sea-skimming cruise missiles and theater ballistic missiles must be anticipated. In the myriad variations of this littoral conflict environment, a substantial percentage of operations are expected to be prosecuted in joint or allied scenarios.

4. The ship is capable of performing all assigned primary mission areas simultaneously while maintaining readiness condition I (Battle Readiness), III (Wartime or Forward Deployment Cruising Readiness), R (Replenishment Readiness), IV (Peacetime Cruising Readiness) or V (Inport Readiness).

5. The ship is capable of operating for periods normally not to exceed 32 hours per week, providing refrigerated stores, dry provisions, technical (including aviation) spares, general stores, fleet freight, mail, personnel and other items from five stations (two starboard and three port). For fuel transfer, the ship can operate two fuel stations, a double probe to port and one single probe station to starboard. Connected replenishment (CONREP) hours are considered to commence with "first line over"

and terminate with "last line clear." All other workload such as rigging, pre-staging cargo, safety briefings, etc., shall be counted under utility tasks and evolutions.

6. The ship is capable of conducting vertical replenishment (VERTREP) in support of operating forces, providing refrigerated stores, dry provisions, technical (including aviation) spares, general stores, fleet freight, mail, personnel and other items from other units using assigned helicopters or helicopters from another unit, but can only operate three CONREP stations while simultaneously conducting VERTREP operations. All other workload such as pre-staging cargo, safety briefings, etc. will be counted under utility tasks and evolutions.

7. The ship is capable of performing all maintenance for which ship's company is responsible.

8. Designated T-AKE 1 class ships may be manned to support UNREP operations at a maximum of four replenishment stations simultaneously. On the four station T-AKEs, all replenishment stations shall be maintained in a fully operational status, specific station manning will be based on customer requirements and capabilities. Due to the reduced manning levels, VERTREP operations can be conducted simultaneously with only two underway replenishment (UNREP) stations in operation.

REQUIRED OPERATIONAL CAPABILITIES (ROC)
FOR

LEWIS AND CLARK (T-AKE 1) CLASS DRY CARGO AND AMMUNITION SHIP

1. The Lewis and Clark (T-AKE 1) class dry cargo and ammunition ship's mission is to operate logistically in a high-density multi-threat environment as a replenishment ship to an CSG, SAG, or ARG and when operating in concert with a T-AO, to act as the station ship for a CSG. Accordingly, the following primary (P) and secondary (S) warfare mission areas are assigned:

T-AKE 1													
ASW	CCC	EW	FHP	FSO	INT	IO	LOG	MIW	MOB	MOS	NCO	STS	SUW
S	P	S	S	S	S	S	P	S	P	S	S	S	S

<u>ASW:</u>	<u>Anti-Submarine Warfare</u>	<u>LOG:</u>	<u>Logistics</u>
<u>CCC:</u>	<u>Command, Control, and Communications</u>	<u>MIW:</u>	<u>Mine Warfare</u>
<u>EW:</u>	<u>Electronic Warfare</u>	<u>MOB:</u>	<u>Mobility</u>
<u>FHP:</u>	<u>Force Health Protection</u>	<u>MOS:</u>	<u>Missions of State</u>
<u>FSO:</u>	<u>Fleet Support Operations</u>	<u>NCO:</u>	<u>Non-Combat Operations</u>
<u>INT:</u>	<u>Intelligence Operations</u>	<u>STS:</u>	<u>Strategic Sealift</u>
<u>IO:</u>	<u>Information Operations</u>	<u>SUW:</u>	<u>Surface Warfare</u>

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

a. Condition I: Battle Readiness. While in condition I, the ship shall be capable of meeting the following criteria: able to keep all installed systems manned and operating for maximum effectiveness; and required to accomplish only minimal maintenance that routinely associated with watch standing and urgent repairs. The maximum expected continuous crew endurance for condition I is 24 hours.

b. Condition III: Wartime/Increased Tension/Forward Deployed Cruising Readiness. While in condition III, the ship shall be capable of meeting the following criteria: able to keep installed systems manned and operating as necessary to conform to prescribed ROCs; able to accomplish all normal underway maintenance and support administrative functions. For

the T-AKE 1, this condition includes preparations for and securing of equipment after replenishment operations. The minimum expected crew endurance for condition III is 60 days with opportunity for 8 hours of rest provided per man per day.

c. Condition R: Replenishment Readiness. Conduct UNREP in support of operating forces via CONREP by providing fuel (DFM or JP-5) from two fuel at sea (FAS) stations (one port and one starboard): ammunition, provisions, stores, fleet freight, mail, personnel and other items from five replenishment at sea (RAS) stations (three port and two starboard). The maximum number of CONREP stations in operation for cargo and fuel transfer is five, for periods normally not to exceed 32 hours per week. Conduct VERTREP in support of operating forces to provide ammunition, provisions, stores, fleet freight, mail, personnel and other items utilizing assigned helicopters or helicopters from another unit. The maximum number of CONREP stations in operation for cargo or fuel transfer, during simultaneous VERTREP, is three (two stations on one side and one station on the opposite side). VERTREP will normally not exceed 32 hours per week to include all time from setting through securing Flight Quarters. The selection of stations should be based on the customer requirements and capabilities.

d. Condition IV: Peacetime Cruising Readiness. While in condition IV, the ship shall be capable of meeting the following criteria: able to keep installed systems manned and operating only to the extent necessary for safe and effective ship control, propulsion and security; able to accomplish normal underway maintenance, and support administrative functions. Maximum advantage is taken of training opportunities. Expected endurance is not constrained by personnel. Ability to immediately change readiness posture to condition I or III is expected.

e. Condition V: Inport Readiness. Designated maintenance and training period. While in condition V, the ship shall be capable of meeting the following criteria: able to keep installed systems manned and operating to the extent necessary for effective operation as dictated by the existing situation; able to man watch stations as required to provide adequate security; able at all times to meet anticipated inport emergencies and to perform inport functions as prescribed by

unit ROCs; able to accomplish all required maintenance, and support administration functions. Maximum advantage is taken for 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. (Note: "P" for "Partial" is no longer a symbol). Even though only limited capability is realized, it is to be sustained for the duration of the condition unless modified by an "A" or "F." Every "L" must be supported by a limiting statement, specifying the limitation.

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.

(3) Normally, using an "A" or an "E" requires no amplifying statement as their meanings are predefined. However, in the case of the T-AKE as well as other classes that routinely embark external resources, the meaning may not be clear as to whether the augmentation should be provided by ship's company or an external resource.

MODIFIER	CAPABILITY	
	FULL	LIMITED
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

4. 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.

REQUIRED OPERATIONAL CAPABILITIES

T-AKE 1		I	III	R	IV	V
ANTISUBMARINE WARFARE (ASW)						
ASW 8	DISENGAGE, EVADE, AVOID AND DECEIVE SUBMARINES.					
ASW 8.1	Employ torpedo countermeasures and evasion techniques. R(L) - Limited maneuverability during CONREP. IV, V(L) - Plan and train.	F/E	F/E	L/E	L/E	L/E
COMMAND, CONTROL AND COMMUNICATIONS (CCC)						
CCC 1	PROVIDE COMMAND AND CONTROL FACILITIES FOR A TASK ORGANIZATION COMMANDER AND STAFF.					
CCC 1.6	Provide a helicopter direction center with command and control facilities for the control and direction of helicopters operating from the ship.	F	F	F	F	F
CCC 2	COORDINATE AND CONTROL THE OPERATIONS OF THE TASK ORGANIZATION OR FUNCTIONAL FORCE TO CARRY OUT ASSIGNED MISSIONS.					
CCC 2.8	Function as on-scene commander for a search and rescue (SAR) operation.	F	F		F	
CCC 3	PROVIDE OWN UNIT'S COMMAND AND CONTROL FUNCTIONS.					
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 of classified material and equipment rapidly and efficiently. V(L) - Plan and train.	F	F	F/E	F/E	L

T-AKE 1		I	III	R	IV	V
CCC 3.11	Establish voice communications with supported forces. V(L) - Plan and train.	F	F	F	F	L
CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.						
CCC 6.1	Maintain tactical voice communications. V(L) - Plan and train.	F	F	F	F	L
CCC 6.2	Maintain visual communications. I, III, R, IV, V - Flashing light speed limited to 6 WPM. Semaphore communications not available.	L	L	L	L	L/A
CCC 6.3	Maintain multi-channel cryptographically covered teletype/data receive circuits.	F	F	F	F	F/A
CCC 6.5	Maintain full duplex, cryptographically covered high frequency teletype/data circuits.	F	F	F	F	F/A
CCC 6.6	Process messages.	F	F	F	F	F/A
CCC 6.10	Maintain voice/teletype/computer data cryptographically covered satellite communication circuits.	F	F	F	F	F/A
CCC 6.12	Maintain internal communications systems.	F	F	F	F	F
CCC 6.19	Maintain tactical, secure voice or data communications. V(L) - Plan and train.	F	F	F	F	L
CCC 9 RELAY COMMUNICATIONS.						
CCC 9.1	Relay visual communications. I, III, R, IV, V - Flashing light speed limited to 6 WPM. Semaphore communications not available.	L	L	L	L	L

T-AKE 1		I	III	R	IV	V
CCC 9.3	Relay electronic communications. V(L) - Capability reduced due to personnel ashore.	F	F	F	F	L
CCC 19 REPAIR OWN UNIT'S CCC EQUIPMENT.						
CCC 19	Repair own unit's CCC equipment. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or R stations.	L	F	L	F	F
CCC 20 CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S CCC CAPABILITIES.						
CCC 20	Conduct casualty control procedures to maintain/restore own unit's CCC capabilities. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I or R stations.	L	F	L	F	F
ELECTRONIC WARFARE (EW)						
EW 3 CONDUCT EP OPERATIONS						
EW 3.7	Implement appropriate/directed electromagnetic/acoustic emission control (EMCON) condition.	F	F		F	
EW 3.8	Transition rapidly from one EMCON condition to another.	F	F		F	
EW 3.9	Monitor own unit compliance with EMCON condition in effect. V(L) - Capability reduced due to personnel ashore.	F	F		F	L
FORCE HEALTH PROTECTION (FHP)						
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

T-AKE 1		I	III	R	IV	V
FHP 23.4	Conduct basic ward care. I, III, R, IV, V(L) - For use in emergency cases when medical evacuation is not possible or when return to duty can be expected in a short time.	L	L	L	L	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: (a) Medical services officer.		F		F	F
FHP 23.9	Conduct medical administrative/maintenance services: (a) Maintain adequate Medical supplies for appropriate level health care. (b) Perform routine medical administrative services.		F		F	F
FHP 23.10	Conduct on-site emergency medical treatment during hazardous evolutions including flight quarters and UNREP/refueling operations.	F	F	F	F	F
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 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) Medical services officer.	F	F	F	F	F

T-AKE 1		I	III	R	IV	V
FHP 24	PROVIDE FIRST AID ASSISTANCE.					
FHP 24.1	Identify, equip and maintain appropriate first aid spaces.		F		F	F
FHP 24.2	Train assigned personnel in first aid, self and buddy aid procedures.		F		F	F
FHP 25	PROVIDE TRIAGE OF CASUALTIES/PATIENTS.					
FHP 25.1	Identify, equip and maintain suitable triage spaces.	F	F	F	F	F
FHP 25.2	Train assigned and embarked personnel in triage care.		F		F	F
FHP 25.3	Provide administrative support for augmentation personnel/ associated equipment that are assigned to triage and decontamination stations. All (L) - Limited to available space.	L	L	L	L	L
FHP 25.4	Train designated non-medical personnel to assist in triage management care for chemical, biological, and radiological (CBR) contamination casualties.	F	F	F	F	F
FHP 25.5	Train designated non-medical personnel in CBR casualty decontaminated procedures.	F	F	F	F	F
FHP 25.7	Provide medical treatment for CBR casualties. All (L) - Limited to minor treatment/aid.	L	L	L	L	L
FHP 26	PROVIDE MEDICAL/SURGICAL TREATMENT FOR CASUALTIES/PATIENTS.					
FHP 26.1	Identify, equip and maintain suitable resuscitation spaces.	F	F	F	F	F
FHP 26.2	Train assigned and embarked personnel in resuscitation.		F		F	F

T-AKE 1		I	III	R	IV	V
FHP 26.5	Identify, equip and maintain suitable spaces for minor surgery.	F	F	F	F	F
FHP 26.6	Identify, equip and maintain suitable operating room(s) for use by the following personnel: (a) Medical services officer.	F	F	F	F	F
FHP 27	PROVIDE MEDICAL, SURGICAL, POST-OPERATIVE AND NURSING CARE FOR CASULTIES/PATIENTS.					
FHP 27.1	Provide hospital beds. (a) Small number general care.	F	F	F	F	F
FHP 27.5	Provide surgery by primary Care medical officer. All(L) - Minor/emergency surgery by physician's assistant/ medical service officer.	L	L	L	L	L
FHP 27.10	Provide recovery beds.	F	F	F	F	F
FHP 27.11	Conduct convalescent ward care. V(L) - Limited to occupational-related cases.	F	F	F	F	L
FHP 27.13	Provide all support needed to augment personnel/equipment assigned to nursing services. IV(L) - Limited to available space.				L	
FHP 28	PROVIDE MEDICAL REGULATION, TRANSPORT/EVACUATION AND RECEIPT OF CASUALTIES/PATIENTS.					
FHP 28.4	Transport and/or provide for casualty/patient evacuation. I(L), III(L), R(L), IV(L), V(L) - Helo.	L/E	L/E	L/E	L/E	L/E

T-AKE 1	I	III	R	IV	V
FLEET SUPPORT OPERATIONS (FSO)					
FSO 1 REPAIR AND OVERHAUL SHIPS, AIRCRAFT AND ASSOCIATED EQUIPMENT.					
FSO 1.2 Provide repair services for: (a) Aircraft I, R(L) - Battle repairs only. Embarked squadron personnel may have to stand down from their watch stations to provide support. NOTE: III, IV, V - Augmentation by technical and supply support personnel from embarked squadron required.	L/E	F/E	L/E	F/E	F/E
FSO 3 PROVIDE SUPPORT SERVICES TO OTHER UNITS.					
FSO 3.3 Support aircraft (when assigned). All(L) - Fueling, parts, repair limitations.	L	L	L	L	L
FSO 5 CONDUCT TOWING/SEARCH/SALVAGE/RESCUE OPERATIONS.					
FSO 5.3 Conduct rescue operations. I(L) - Secure personnel for special detail.	L/A	F		F	
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. I(L) - Co-manned by repair III/Helo Det personnel	L/E	F/E	F/E	F/E	F/E

T-AKE 1		I	III	R	IV	V
FSO 6.2	Conduct combat/noncombat SAR operations by surface ships. I, R(L) - Selected personnel must stand down from condition I or R stations to man SAR boat or deck recovery operations.	L	F	L	F	F
FSO 6.4	Recover man overboard. I(L) - Selected personnel must stand down from condition I stations to man SAR boat or deck recovery operations. R(L) - Helo only.	L/A	F	L/E	F	F
FSO 6.6	Conduct SAR operations (including operations involving submarine disaster/rescues). I(L) - Selected personnel must stand down from Condition I stations to man SAR boat or deck recovery operations. R(L) - Helo only.	L/A	F	L/E	F	F
FSO 6.7	Conduct general surveillance. V(L) - Plan and train	F	F	F	F	L
FSO 6.8	Acquire and display distress data. V(L) - Plan and train.	F	F	F	F	L
FSO 6.9	Report situation assessment.	F	F	F	F	
FSO 6.10	Coordinate SAR operations.	F	F		F	
FSO 6.11	Conduct multi-unit SAR operations.	F	F		F	
FSO 20 PROVIDE FLEET TRAINING SERVICES.						
FSO 20.1	Act as a target for submarines.	F	F	F	F	
FSO 20.6	Act as delivery or receiving ship for UNREP training.			F		
FSO 20.10	Provide technical guidance and assistance to fleet units in cargo handling and UNREP operations.		F	F	F	F

T-AKE 1		I	III	R	IV	V
FSO 51	REPAIR OWN UNIT'S FSO-RELATED EQUIPMENT. I(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their Condition I stations.	L	F	F	F	F
FSO 55	MAINTAIN READINESS BY PROVIDING FOR TRAINING OF OWN UNIT PERSONNEL.		F	F	F	F
INTELLIGENCE (INT)						
INT 2	PROVIDE INTELLIGENCE.					
	INT 2.1 Maintain intelligence summary plots on air, surface and subsurface activities.	F	F		F	F
	INT 2.2 Evaluate and disseminate intelligence information.	F	F		F	F
INT 3	CONDUCT SURVEILLANCE AND RECONNAISSANCE.					
	INT 3.2 Conduct overt surveillance and reconnaissance operations.	F	F		F	
INT 4	CONDUCT OCEAN SURVEILLANCE OPERATIONS AGAINST TARGETS OF INTEREST.					
	INT 4.1 Detect and locate targets of interest.	F	F	F	F	
	INT 4.2 Classify and identify targets of interest.	F	F	F	F	
	INT 4.3 Track targets of interest.	F	F	F	F	
INFORMATION OPERATIONS (IO)						
IO 4	PLAN AND IMPLEMENT OPSEC MEASURES					
	IO 4.11 Execute OPSEC measures.	F	F	F	F	F
IO 6	PLAN AND CONDUCT COUNTERSURVEILLANCE, COUNTERTARGETING AND MILITARY DECEPTION OPERATIONS.					
	IO 6.7 Conduct naval operational deception operations using tactics, operations, exercises or physical means.	F	F	F	F	F/A

T-AKE 1		I	III	R	IV	V
IO 14	REPAIR OWN UNIT'S IO EQUIPMENT. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their Condition I or R stations.	L	F	L	F	F
IO 16	CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S IO CAPABILITIES. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their Condition I or R stations.	L	F	L	F	F
IO 25 MILDEC						
IO 25.5	Execute military tactical deception actions using technical means (electronic, acoustic, visual, electrical/optical). V(L) - Plan and train.	F	F	F	F	L
LOGISTICS (LOG)						
LOG 1 CONDUCT UNREP.						
LOG 1.1	Transfer ammunition underway.			F		
LOG 1.2	Transfer ammunition underway by standard tensioned replenishment alongside method (STREAM).			F		
LOG 1.3	Transfer cargo underway.			F		
LOG 1.4	Transfer cargo underway by STREAM.			F		
LOG 1.5	Transfer missiles underway.			F		
LOG 1.6	Transfer missiles underway by STREAM.			F		
LOG 1.7	Transfer diesel fuel marine (DFM) underway by alongside method.			F		
LOG 1.8	Transfer DFM underway by STREAM.			F		
LOG 1.9	Transfer jet fuel underway.			F		

T-AKE 1		I	III	R	IV	V
LOG 1.10	Transfer jet fuel underway by STREAM.			F		
LOG 1.11	Provide VERTREP underway.			F		
LOG 1.12	Replenish other units underway with limited fuel, provisions, munitions and potable water.			F		
LOG 1.15	Transfer torpedoes underway.			F		
LOG 1.16	Transfer torpedoes underway by STREAM.			F		
LOG 1.17	Transfer mines underway.			F		
LOG 1.18	Transfer mines underway by STREAM.			F		
LOG 1.19	Plan/direct UNREP.		F	F	F	
LOG 2 TRANSFER/RECEIVE CARGO AND PERSONNEL.						
LOG 2.2	Provide facilities and personnel for material, mail and passenger handling.		F	F	F	F
LOG 2.3	Act as a transient personnel receiving station.			F		F
LOG 2.4	Transfer and receive personnel by helo.	F	F	F	F	F
LOG 2.5	Transfer personnel and light freight by highline.			F		
LOG 2.6	Plan, direct and prioritize personnel, mail and cargo transfer and receipt in coordination with the CSG/task force Logistics coordinator. V(L) - Plan and train.		F	F	F	L
LOG 3 PROVIDE SEALIFT FOR CARGO AND PERSONNEL.						
LOG 3.1	Provide stowage and berthing spaces for equipment and personnel during transit.	F	F	F	F	F
LOG 3.2	Provide small boat services for transfer of personnel, cargo, weapons, provisions and supplies.		F		F	F

T-AKE 1		I	III	R	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. R, V(L) - Drummed lubrication oil only.			L		L
LOG 4.2	Stock, maintain, issue and provide security for weapons, ammunition pyrotechnics and acoustic evasion devices.	F	F	F	F	F
LOG 4.4	Provide another unit with: (a) Electrical power (b) Bottled oxygen (c) Bottled nitrogen (d) Fresh water					
						F
				F		F
				F		F
				F		F
LOG 6	PROVIDE AIRLIFT OF CARGO AND PERSONNEL.					
LOG 6.1	Provide schedule/response airlift of cargo, mail and personnel.	F	F	F	F	F
LOG 6.2	Provide VERTREP services.	F	F	F	F	F
LOG 8	CONDUCT MATERIAL CONTROL OPERATIONS.					
LOG 8.1	Screen material for all units in the group. V(L) - Plan and train.		F	F	F	L
LOG 8.2	Consolidate receipt and trans-shipment of all group cargo and mail, including off-ship cargo operations in support of embarked forces. V(L) - Plan and train.		F	F	F	L

T-AKE 1		I	III	R	IV	V
LOG 9	REPAIR OWN UNIT'S LOGISTICS EQUIPMENT. I(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their condition I stations.	L	F	F	F	F
LOG 10	CONDUCT CAUSALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S LOG CAPABILITIES. I(L)- Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from their Condition I stations.	L	F	F	F	F
MINE WARFARE (MIW)						
MIW 6	CONDUCT MAGNETIC SILENCING (DEGAUSSING, DEPERMING, ETC.)					
MIW 6.7	Maintain magnetic signature limits.	F	F	F	F	
MIW 6.8	Maintain own unit's degaussing readiness.	F	F	F	F	
MOBILITY (MOB)						
MOB 1	OPERATE SHIP'S POWERPLANT TO DESIGNED CAPABILITY.					
MOB 1.1	Operate ship's power plant at full power.	F	F	F	F	
MOB 1.2	Operate ship's power plant with split plant operations.	F	F	F	F	
MOB 1.5	Operate at sustained CSG/ SAG/ underway replenishment group/ amphibious force speeds.	F	F	F	F	
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.	F	F		F/A	
MOB 3	PREVENT AND CONTROL DAMAGE.					

T-AKE 1		I	III	R	IV	V
MOB 3.1	Control fire, flooding, electrical, structural, propulsion and hull casualties. III, R, IV(L) - At-sea fast reaction team manned by off-watch personnel. V(L) - Capability limited to inport damage control parties augmented by off-watch personnel.	F	L/A	L/A	L/A	L/A
MOB 3.2	Counter and control CBR contaminants/agents. III, R, IV, V(L) - Reduced capability until Condition I set.	F	L	L	L	L
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	F	
MOB 7	PERFORM SEAMANSHIP, AIRMANSHIP AND NAVIGATION TASKS.					
MOB 7.1	Navigate under all conditions of geographic location, weather and visibility.	F	F/E	F/E	F/E	
MOB 7.2	Conduct precision anchoring. I(L) - To achieve full capability, designated personnel must stand down from their other battle stations to man the anchor handling equipment.	L/E	F/E		F/E	

T-AKE 1		I	III	R	IV	V
MOB 7.3	Get underway, moor, anchor and sortie with duty section in a safe manner. V(L) - Deployed, duty section fully capable. Not deployed, recall of personnel required.					L/E
MOB 7.6	Abandon/scuttle ship rapidly. III, R, IV, V(L) - Plan and train.	F	L	L	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). I(L) - To achieve full capability, selected personnel must stand down from Condition I stations to man towing detail.	L/E	F/E		F/E	
MOB 7.9	Operate day and night and under all weather conditions.	F	F	F	F	F
MOB 7.10	Conduct undetected transits.	F	F	F	F	
MOB 7.15	Operate in a chemically contaminated environment. III, IV, V(L) - Plan and train.	F	L		L	L
MOB 7.16	Recover man overboard (shipboard, boat or helicopter). R(L) - Helo only.	F	F	L	F	F
MOB 10 REPLENISH AT SEA.						
MOB 10.1	Receive VERTREP.		F/E	F	F/E	F/E
MOB 10.2	Receive fuel while underway (alongside method).			F		
MOB 10.3	Receive munitions and provisions while underway.			F		
MOB 10.4	Receive potable and/or feed water while underway.			F		
MOB 10.5	Receive carrier onboard delivery /vertical onboard delivery aircraft.			F		

T-AKE 1	I	III	R	IV	V
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(L) - Battle messing only.	L	F	F	F	F
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. I(L) - Maintain within the constraints of general quarters. Monitoring by general quarters watch standers only.	L	F	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	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 naval directives pertaining to the prevention of pollution of the environment.		F	F	F	F

T-AKE 1		I	III	R	IV	V
MOB 12.7	Provide individual protective clothing and equipment to sufficiently protect casualties in case of CBR contamination. I, R(L) - May require securing personnel from other battle/replenishment stations.	L	F	L	F	F
MOB 12.8	Provide individual protective clothing and equipment to sufficiently protect shipboard personnel identified as being at risk in a CBR contaminated environment. R(L) - May require securing personnel from other replenishment stations.	F	F	L	F	F
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. R(L) - May require securing personnel from other replenishment stations.	F	F	L	F	F
MOB 12.12	Provide antidotes to ship's company which will counteract the effects caused by a CBR contaminated environment. R(L) - May require securing personnel from other replenishment stations.	F	F	L	F	F
MOB 12.13	Train designated medical supervisors and non-medical personnel to detect CBR contaminated casualties.		F		F	F
MOB 12.14	Train designated non-medical personnel to decontaminate CBR casualties.		F		F	F

T-AKE 1		I	III	R	IV	V
MOB 12.15	Identify, supply and maintain decontamination stations.	F	F	F	F	F
MOB 17	PERFORM ORGANIZATIONAL LEVEL REPAIRS TO OWN UNIT'S MOB EQUIPMENT. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from condition I or R stations.	L	F	L	F	F
MOB 18	CONDUCT CASUALTY CONTROL PROCEDURES TO MAINTAIN/RESTORE OWN UNIT'S MOB EQUIPMENT. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require standing down selected personnel from condition I or R stations.	L	F	L	F	F
MISSION OF STATE (MOS)						
MOS 1	PERFORM NAVAL DIPLOMATIC PRESENCE OPERATIONS.					
MOS 1.1	Establish a sovereign, mobile sea base in a forward area. IV, V(L) - Plan and train.	F	F		L	L
MOS 1.2	Conduct force/unit tour for foreign dignitaries.		F/A		F/A	F/A
MOS 1.3	Conduct systems/weapons demonstrations for foreign dignitaries.				F	
MOS 1.4	Conduct foreign port calls.					F
MOS 1.5	Conduct force/unit tours for foreign citizens during port calls.					F/A
MOS 1.6	Conduct receptions for foreign dignitaries during port calls.					F/A
MOS 1.7	Provide volunteers for small project assistance during port calls.					F/A
MOS 1.8	Participate in military exercises with allied nations.		F	F	F/A	F/A

T-AKE 1		I	III	R	IV	V
MOS 1.9	Participate in military exercises with non-allied nations.		F	F	F/A	F/A
MOS 1.10	Participate in or provide participants for foreign/allied commemorative or ceremonial events.				F/E	F/E
MOS 1.11	Provide lift of opportunity for foreign or national diplomatic material. III, R, IV, V(L) - Quantities that do not interfere with the regular combat capabilities or logistics load.		L	L	L	L
MOS 2 PROVIDE HUMANITARIAN ASSISTANCE.						
MOS 2.1	Deliver relief material. III, R, IV, V(L) - Quantities that do not interfere with the regular combat capabilities or logistics load.		L	L	L	L
MOS 2.2	Provide emergency flooding/fire fighting assistance.		F/E		F/E	F/E
MOS 2.4	Provide disaster assistance and evacuation.		F/E		F/E	F/E
MOS 2.10	Support/provide for the evacuation of noncombatant personnel in areas of civil or international crisis.		F/A		F/A	F/A
MOS 2.11	Support/conduct helicopter/boat evacuation of noncombatant personnel as directed by higher authority from areas of civil or international crisis.		F/A		F/A	F/A
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.		F/A		F/A	F/A

T-AKE 1	I	III	R	IV	V
MOS 2.14 Provide transportation for evacuees to designated safe havens or onward processing centers.		F/A		F/A	F/A
MOS 2.15 Plan/direct the evacuation of non-combatant personnel in areas of civil or international crisis in both a permissive and non-permissive environment (including joint/combined operations). I(L) - Flight quarters manning must be augmented from other battle stations.	L	F/A		F/A	F/A
MOS 3 PERFORM PEACEKEEPING.					
MOS 3.2 Provide logistics support for a joint/allied peacekeeping force.		F	F	F	F
NONCOMBATANT OPERATIONS (NCO)					
NCO 2 PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.					
NCO 2.1 Provide supply support services. I(L) - Emergency supply support services.	L	F	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(L) - Battle messing only.	L	F	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	F
NCO 2.8 Provide personnel for living space maintenance.		F		F	F
NCO 2.11 Provide personnel for fuels support.		F		F	F

T-AKE 1		I	III	R	IV	V
NCO 3	PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.					
NCO 3.1	Provide organizational level preventive maintenance.		F		F	F
NCO 3.2	Provide organizational level corrective maintenance. I, R(L) - Emergency repairs to equipment critical to ship's mission. May require selected personnel standing down from their condition I or R stations.	L	F	L	F	F
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 materials.		F	F	F	F
NCO 5	CONDUCT METEOROLOGICAL, HYDROGRAPHIC AND/OR OCEANOGRAPHIC COLLECTION OPERATIONS OR SURVEYS.					
NCO 5.1	Collect and disseminate meteorological information.	F	F	F	F	
NCO 5.2	Collect and disseminate hydrographic information. All(L) - Synoptic reports.	L	L	L	L	L
NCO 10	PROVIDE EMERGENCY/DISASTER ASSISTANCE.					
NCO 10.1	Provide emergency flooding/fire fighting assistance to another unit. I(L) - Requires securing personnel battle stations. R(L) - Requires securing personnel from replenishment stations.	L/E	F/E	L/E	F/E	F/E

T-AKE 1		I	III	R	IV	V
NCO 10.4	Provide disaster assistance and evacuation. NOTE: Full capability when rescue and assistance party is called away. Augmentation by off-station personnel may be required to sustain effort.		F/A		F/A	F/A
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.		F/E		F/E	F/E
NCO 11.3	Provide care, feeding and berthing of evacuees. I(L) - Battle messing and emergency care only.	L	F	F/A	F	F/A
NCO 11.4	Provide transportation for evacuees to designated safe havens or onward processing centers.	F	F	F	F	F
NCO 24 SUPPORT/CONDUCT ROTARY WING AIRCRAFT OPERATIONS.						
NCO 24.1	Support/conduct day rotary wing aircraft flight operations. I(L) - Co-manned by repair III/helo det personnel.	L/E	F/E	F	F/E	F/E
NCO 24.2	Support/conduct night rotary wing aircraft flight operations. I(L) - Co-manned by Repair III/helo det personnel.	L/E	F/E	F	F/E	F/E

T-AKE 1		I	III	R	IV	V
NCO 24.3	Support/conduct night rotary wing aircraft flight operations during all EMCON conditions. I(L) - Co-manned by Repair III/helo det personnel.	L/E	F/E	F		
NCO 24.4	Support/conduct night rotary wing aircraft hot and cold refueling operations. I(L) - Co-manned by Repair III/helo det personnel.	L/E	F/E	F	F/E	F/E
NCO 24.5	Provide electrical power for rotary wing aircraft starting, testing, etc.	F	F/E	F	F	F
NCO 25 CONDUCT MARINE ENVIRONMENTAL PROTECTION.						
NCO 25.1	Detect oil or hazardous chemical spill.	F	F	F	F	F
NCO 25.2	Report spills to proper authority.	F	F	F	F	F
NCO 25.3	Conduct pollution abatement operations.		F/E	F/E	F/E	F/E
STRATEGIC SEALIFT (STS)						
STS 1	LOAD, DISCHARGE AND TRANSPORT DRY CARGO.					
STS 1.1	Use ship's cargo rigs to load and discharge breakbulk cargo.			F		F
STS 1.9	Ensure that designed cargo spaces are usable for the carriage of cargo.		F	F	F	F
STS 1.11	Use ship's UNREP receiving gear to transfer cargo to another vessel underway.			F		
STS 2 LOAD, DISCHARGE AND TRANSPORT PETROLEUM, OIL AND LUBRICANTS (POL).						
STS 2.1	Provide liquid cargo tanks and piping systems for carriage of POL.	F	F	F	F	F
STS 2.2	Provide cargo systems with segregation necessary to carry multiple products.	F	F	F	F	F

T-AKE 1		I	III	R	IV	V
STS 2.3	Maintain ship's cargo tanks suitably coated to carry clean POL products.	F	F	F	F	F
STS 2.4	Use ship's pumps to discharge POL.			F		F
STS 2.5	Use ship's UNREP receiving gear to consolidate to another vessel underway.			F		
STS 3 TRANSPORT PASSENGERS.						
STS 3.1	Conduct helo flight quarters for personnel transfer.	F	F	F	F	F
SURFACE WARFARE (SUW)						
SUW 1 USING ANTISURFACE ARMAMENTS, ENGAGE SURFACE THREATS.						
SUW 1.6	Engage surface ships with minor caliber gunfire. III, R, IV(L) - Manned by embarked security team when embarked.	F/E	L/E	L/E	L/E	
SUW 1.11	Employ self-defense torpedo countermeasures. IV, V(L) - Plan and train.	F	F	F	L	L
SUW 4 DETECT, IDENTIFY, LOCALIZE AND TRACK SURFACE SHIP TARGETS.						
SUW 4.1	Detect, localize and track surface contacts with radar. IV, V(L) - Plan and train.	F	F	F	L	L
SUW 4.4	Detect, identify, classify and track surface contacts visually. IV, V(L) - Plan and train.	F	F	F	L	L
SUW 4.7	Identify surface contacts. IV, V(L) - Plan and train.	F	F	F	L	L
SUW 6 DISENGAGE, EVADE AND AVOID SURFACE ATTACK.						

T-AKE 1	I	III	R	IV	V
SUW 6.2 Employ evasion techniques. R(L) - Limited maneuverability during CONREP. V(L) - Plan and train.	F	F	L	F	L
SUW 6.3 Employ EMCON procedures. V(L) - Plan and train.	F	F	F	F	L
SUW 14 REPAIR OWN UNIT'S SUW EQUIPMENT I(L) - Emergency repairs to critical equipment may require standing down selected personnel from their condition I stations.	L	F	F	F	F