



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
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IN REPLY REFER TO
OPNAVINST 3501.199C
N42
17 Dec 07

OPNAV INSTRUCTION 3501.199C

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES (ROC) AND PROJECTED OPERATIONAL ENVIRONMENT (POE) FOR STRATEGIC SEALIFT SHIPS TO INCLUDE THE T-AKR FAST SEALIFT SHIPS (FSS), LARGE MEDIUM SPEED RO/RO (LMSR), AVIATION SUPPORT SHIPS (T-AVB), AUXILIARY CRANE SHIPS (T-ACS), AND READY RESERVE FORCE (RRF) DRY CARGO SHIPS

Ref: (a) OPNAVINST C3501.2K

Encl: (1) Projected Operational Environment for Strategic Sealift Ships
(2) Required Operational Capabilities for Strategic Sealift Ships

1. Purpose. To issue the Required Operational Capabilities (ROC) and Projected Operational Environment (POE) for the Strategic Sealift Ships to include the T-AKR Fast Sealift Ships (FSS), Large Medium Speed RO/RO (LMSR), Aviation Support Ships (T-AVB), Auxiliary Crane Ships (T-ACS), and Ready Reserve Force (RRF) Dry Cargo Ships. RRF ships include Dry Cargo, FSS, T-AVB, T-ACS, Lighter Aboard Ship (LASH), SEABEE, and Modular Cargo Delivery System (MCDS) Breakbulk ships.

2. Cancellation. OPNAVINST 3501.199B

3. Discussion. Enclosures (1) and (2) define the ROC and POE for the Strategic Sealift Ships per reference (a). Strategic Sealift Ships are U.S. Government-owned ships, manned by civilian contract crews, under the operational and administrative command of the Commander, Military Sealift Command (COMSC) and the Maritime Administration. As a result, the following differences apply to the format and interpretation of the ROC/POE:

a. This instruction provides generic requirements for strategic sealift ships. While each ship class may have different configurations and capabilities, operating

capabilities and environment are basically the same. There is no requirement for a specific ROC/POE tailored to each configuration. Where significant capabilities exist in a class of ships, specific ROCs will be annotated as applying to that class.

b. The T-AKR (FSS), T-AKR (LMSR), T-AVB, T-ACS and the various RRF classes of ships are civilian manned in accordance with regulatory requirements and time charters or operating contracts, as are commercial ships. The conditions and reporting symbols in this instruction are to be interpreted as defining the level of functional capability to be achieved, but will not determine the manning levels for these vessels.

4. Action. Fleet Commanders and COMSC are requested to periodically review enclosures (1) and (2), and to recommend changes to the Chief of Naval Operations (Attn: N42) when capability of the Strategic Sealift Ships is significantly altered.



M. K. LOOSE
Vice Admiral, CEC, U.S. Navy
Deputy Chief of Naval Operations
(Fleet Readiness and Logistics)

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**PROJECTED OPERATIONAL ENVIRONMENT
FOR
STRATEGIC SEALIFT SHIPS**

1. Some strategic sealift ships will be prepositioned overseas, capable of loading, transporting, preserving and storing on station supplies and equipment. Capable of providing temperature and humidity control in designated compartments and cargo storage spaces. They will be fully crewed and capable of getting underway within 24 hours.

2. Capable of operating independently to provide strategic sealift capacity in support of the rapid deployment of heavy mechanized Army and Marine Corps combat units on a worldwide basis.

3. Capable of deploying with assault follow-on echelon of an amphibious Marine Air-Ground Task Force (MAGTF) and operating in a Logistics-Over-The-Shore (LOTS) environment.

4. Self-sustained load, transport, and offload of common-user cargo and military vehicles, pierside or in-stream, to include tanks and helicopters.

5. During non-activated periods, ships will be layberthed in a 4 or 5-day Reduced Operating Status (ROS-4/5) or in an inactive 10/20 day status (RRF-10/20).

a. While in ROS-4/5, a cadre crew will provide for the ship's safety, and maintain and operate all major and auxiliary machinery systems. Ships will be capable of getting underway within 4 or 5 days for transit to port of embarkation.

b. While in RRF-10/20, ships will be maintained in ready reserve fleet sites, and be capable of being towed to shipyard for activation within 10/20 days.

6. Capable of providing berthing accommodations for supercargo personnel who maintain loaded equipment and cargo. Number dependent on ship class and U.S. Coast Guard Certificate of Inspection (COI) limitations.

7. For T-AVB only:

a. Capable of transporting Aviation Intermediate Maintenance Activity (IMA) to a contingency area to support a designated mix of Marine Corps rotary and fixed wing aircraft in an expeditionary environment. Transport will include up to 210 functional, 59 non-functional and 80 supply/storage vans, possessing self-sustained lift capability for pier-side load/ offload. Maximum load of up to 644 maintenance supply/storage vans if none of the vans are in a functional mode.

b. Capable of providing tailored IMA capability while enroute to contingency area. While afloat, IMA is capable of conducting maintenance on selected weapon repairable assemblies, sub-repairable assemblies, and aviation ground support equipment for a period of up to 30 days from date of departure.

**REQUIRED OPERATIONAL CAPABILITIES (ROC)
FOR
STRATEGIC SEALIFT SHIPS**

1. Strategic Sealift Ship mission is to transport military equipment prepositioned overseas or surged from the United States to support exercises and real-world contingencies. Equipped with self-sufficient Roll-on/Roll-off (RO/RO) and/or Lift-on/Lift-off (LO/LO) facilities for rapid loading, deployment, and offloading. Strategic Sealift Ships are capable of carrying tanks, helicopters, military vehicles, and containerized cargo. Accordingly, the following primary and secondary mission areas are assigned:

T-AKR (LMSR) / T-AVB / T-ACS / T-AK / R							
ASU	CCC	C ² W4	FSO	LOG	MOB	NCO	STS
S	S	S	S	P	P	S	P

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

Condition III. Wartime/Increased Tension/Deployed Cruising Readiness

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: able to keep installed systems manned and operating as necessary to conform with prescribed ROCS; able to accomplish all normal underway maintenance, support and administrative functions.

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 to the extent necessary for safe and effective ship control, propulsion, and security; able to accomplish all normal underway maintenance, support and administrative functions. Maximum advantage is taken of training opportunities.

Condition V. Inport Readiness

Designated inport 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, support and administrative functions. Maximum advantage is taken of training opportunities.

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.

CAPABILITIES

"F" = "Full" The capability is to be fully achieved. For operational functions (watches), this means that installed equipment or systems will be fully manned to design capability. The achievement is to be sustained for the duration of the condition unless modified by an "A" or "E".

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

MODIFIERS

"A" = "Augmentation" The capability is to be either fully or partially achieved for a limited time during the condition.

The capability is achieved by using off-watch personnel and is always associated with an "F" or "L".

"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.

MODIFIER	CAPABILITY	
	FULL	LIMITED
None	Manned to design capacity for duration of condition	Manned to less than designed 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

Staff/External Personnel Resources. Normally, using an "A" or an "E" requires no embellishing statement as their meanings are predefined.

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However, in some cases, the meaning may not be clear as to whether the augmentation should be provided by staff personnel or the external resource.

This ROC/POE instruction shows:

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

REQUIRED OPERATIONAL CAPABILITIES

		III	IV	V/IP
ANTI-SURFACE SHIP WARFARE (ASU).				
ASU 4	DETECT, IDENTIFY, LOCALIZE, AND TRACK SURFACE SHIP TARGETS.			
ASU 4.1	Detect, localize, and track surface contacts with radar.	F	F	-
ASU 4.4	Detect, identify, classify and track surface contacts visually. L - Limited due to equipment and size of civilian crew.	L	L	-
ASU 4.7	Identify surface contacts. L - Limited access to classified publications and civilian crew training.	L	L	-
ASU 6 DISENGAGE, EVADE, AND AVOID SURFACE ATTACK.				
ASU 6.2	Employ evasion techniques.	F	F	-
ASU 6.3	Employ Electromagnetic Emission Control (EMCON) procedures.	F	F	F
COMMAND, CONTROL AND COMMUNICATIONS (CCC).				
CCC 3	PROVIDE OWN UNIT'S COMMAND AND CONTROL FUNCTIONS.			
CCC 3.3	Provide all necessary personnel services, programs, and facilities to safeguard classified material and information.	F	F	F
CCC 3.4	Carry out emergency destruction of classified material and equipment rapidly and efficiently.	F	F	F
CCC 3.8	Establish voice communications with U.S. Marine Corps (USMC) evacuation and command nets and/or Naval Support Activity (NSA) net. Establish voice communications with U.S. Army forces ashore, as required for cargo offload.	F	F	F
CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.				
CCC 6.1	Maintain tactical voice communications.	F	F	F
CCC 6.2	Maintain visual communications.	F	F	-
CCC 6.6	Process messages.	L	L	L
CCC 6.12	Maintain internal communications systems.	F	F	F

CCC 6.19 Provide tactical, secure voice or data communications.	L	L	L
L - Minimum of STU-III, fax machine and while in port cell phone.			

	III	IV	V/IP
COMMAND AND CONTROL WARFARE (C²W) AND INFORMATION WARFARE (IW).			
C²W 4 IMPLEMENT OPERATIONS SECURITY (OPSEC) MEASURES AND CONDUCT MILITARY DECEPTION ACTIONS.			
C ² W 4.11 Plan, coordinate and control implementation of OPSEC measures.	L	L	L
C ₂ W 4.12 Execute OPSEC measures.	F	F	F
FLEET SUPPORT OPERATIONS (FSO).			
FSO 1 REPAIR AND OVERHAUL SHIPS, AIRCRAFT AND ASSOCIATED EQUIPMENT.			
FSO 1.10 Provide intermediate level aircraft maintenance. L - T-AVB ships only. Partial Aviation Intermediate Maintenance Activity (IMA) capability only, not all work centers are accessible.	L	L	L
FSO 6 SUPPORT/CONDUCT SEARCH AND RESCUE (SAR) OPERATIONS IN A COMBAT/NON-COMBAT ENVIRONMENT.			
SAR FSO 6.2 Conduct combat/non-combat operations by surface ships. L - Limited capability of civilian crew.	L	L	-
FSO 6.4 Recover man overboard. F/E - Special detail required for hoisting/lowering lifeboats.	F/E	F/E	F/E
FSO 9 PROVIDE MEDICAL CARE TO ASSIGNED AND EMBARKED PERSONNEL.			
FSO 9.10 Conduct on-site emergency medical treatment during hazardous evolutions including flight quarters, underway replenishment/refueling, and amphibious assault boat operations. L - Limited medical treatment capabilities. No dedicated doctor/corpsman/nurse normally onboard.	L	L	L
FSO 10 PROVIDE FIRST AID ASSISTANCE.			
FSO 10.1 Identify, equip, and maintain appropriate first aid spaces.	F	F	F
FSO 10.2 Train assigned personnel in first aid, self aid, and buddy aid procedures.	F	F	F
FSO 10.3 Train stretcher bearers.	F	F	F

		III	IV	V/IP
FSO 20	PROVIDE FLEET TRAINING SERVICES.			
FSO 20.6	Act as delivery or receiving ship for underway replenishment training. L - Modular Cargo Delivery System (MCDS) ships only. Special detail manned by Selected Reserve (SELRES) Cargo Afloat Rig Teams (CART) required.	L/E	L/E	-
LOGISTICS (LOG).				
LOG-1	CONDUCT UNDERWAY REPLENISHMENT.			
LOG 1.2	Transfer ammunition underway by Standard Tensioned Replenishment Alongside Method (STREAM). L - MCDS ships only. Special detail manned by SELRES CART required.	L/E	L/E	-
LOG 1.4	Transfer cargo underway by STREAM. L - MCDS ships only. Special detail manned by SELRES CART required.	L/E	L/E	-
LOG 1.6	Transfer missiles underway by STREAM. L - MCDS ships only. Special detail manned by SELRES CART required.	L/E	L/E	-
LOG 2	TRANSFER/RECEIVE CARGO AND PERSONNEL.			
LOG 2.2	Provide facilities and personnel for material, mail and passenger handling. L - III(L), IV(L) Receiving ship only during daylight hours.	L	L	-
LOG 2.4	Transfer and receive personnel by helo. L - No organic helicopter. Day hover only. In accordance with OPNAVINST 3120.35 Series. No refueling or support capability. Special flight operations detail required.	L/E	L/E	-
LOG 2.5	Transfer personnel and light freight by highline. L - MCDS and T-ACS (freight only) ships only. Special detail required.	L/E	L/E	-
LOG 3	PROVIDE SEALIFT FOR CARGO AND PERSONNEL.			
LOG 3.1	Provide stowage and berthing spaces for equipment and personnel during transit. L - Total personnel allowed as per U.S. Coast Guard Certificate of Inspection (COI).	L	L	L

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		III	IV	V/IP
LOG 3.2	Provide small boat services for transfer of personnel, cargo, weapons, provisions and supplies. L - Lifeboat and Rigid Hull Inflatable Boat (RHIB) only.	L	L	L
LOG 4	SUPPORT SHIPS AND AIRCRAFT IN SUPPLIES, ORDNANCE AND OTHER SERVICES.			
LOG 4.5	Stock, maintain, and issue: (a) Air munitions (b) Air-launched missiles (c) Free-fall/guided munitions L - MCDS ships only. Ships can store and maintain munitions, with limited selective offload capability.	L	L	-
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	-
MOB 1.2	Operate ship's propulsion plant with split plant operations. L - Only for those ships with multiple power plants.	L	L	-
MOB 1.7	Transit at high speed.	F	F	-
MOB 1.11	Operate employing diesel engines. L - Only for those ships with diesel power plants.	L	L	-
MOB 3	PREVENT AND CONTROL DAMAGE.			
MOB 3.1	Control fire, flooding, electrical, structural, propulsion, and hull/airframe casualties.	F	F	F
MOB 3.2	Counter and control Chemical, Biological, and Radiological (CBR) contaminants/agents. L - Due to limited equipment and civilian crew training.	L	L	L
MOB 3.3	Maintain security against unfriendly acts. L - 72 Hour maximum unassisted.	L	L	L
MOB 3.5	Provide damage control security/surveillance.	F	F	F
MOB 3.8	Provide emergency breathing devices per ship's allowance.	F	F	F

		III	IV	V/IP
MOB 7	PERFORM SEAMANSHIP, AIRMANSHIP, AND NAVIGATION TASKS.			
MOB 7.1	Navigate under all conditions of geographic location, weather, and visibility.	F	F	-
MOB 7.2	Conduct precision anchoring.	F	F	-
MOB 7.3	Get underway, moor, anchor and sortie with duty section in a safe manner.	F	F	-
MOB 7.6	Abandon/scuttle ship rapidly.	F	F	F
MOB 7.7	Provide life boat/raft capacity in accordance with unit's allowance.	F	F	F
MOB 7.8	Tow or be towed (towing engine not required). E - Special detail required to tow or be towed.	F/E	F/E	-
MOB 7.9	Operate day and night and under all weather conditions.	F	F	-
MOB 7.14	Moor alongside Amphibious Task Force (ATF) shipping or docks. L - Pier/docks only except for T-ACS ships which require full capability.	L	L	-
MOB 7.15	Operate in a chemically contaminated environment. L - Civilian crew possesses limited equipment and training.	L/A	L/A	L/A
MOB 10	REPLENISH AT SEA.			
MOB 10.1	Receive vertical replenishment. L - No organic helo. Day hover only (Level III, Class 4-OPNAVINST 3120.35 Series). No refueling or support capability. E - Special detail required.	L/E	L/E	L/E
MOB 10.2	Receive fuel while underway (alongside method). L - Diesel Fuel, Marine (DFM) only. E - Special replenishment detail required.	L/E	L/E	-
MOB 10.3	Receive munitions and provisions while underway. L - MCDS ships only. Special detail manned by SELRES CART required.	L/E	L/E	-

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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.	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
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 naval directives pertaining to the prevention of pollution of the environment.	F	F	F
MOB 14	CONDUCT OPERATIONS ASHORE.			
MOB 14.1	Operate in climate extremes ranging from cold weather to tropical to desert environments.	F	F	F
MOB 14.2	Operate in rear of combat zone in Afloat Prepositioning Force (APF) or Marine Expeditionary Brigade (MEB) operations environment.	L	L	L
MOB 14.5	Conduct peacetime activation, mount-out and movement exercises of selected personnel and equipment to ensure capability of contingencies involving naval forces short of a general war.	F	F	F
NONCOMBAT OPERATIONS (NCO).				
NCO 2	PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.			
NCO 2.1	Provide supply support services.	F	F	F
NCO 2.5	Provide messing facilities.	F	F	L
NCO 2.6	Provide ships service facilities.	F	F	F

		III	IV	V/IP
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. L - Limited capability of civilian crew.	L	L	L
NCO 3.3	Provide small arms storage area.	F	F	F
NCO 3.5	Provide for proper storage, handling, use, and transfer of hazardous materials.	F	F	F
NCO 10	PROVIDE EMERGENCY/DISASTER ASSISTANCE.			
NCO 10.1	Provide emergency flooding/fire fighting assistance to another unit. L - Special detail assigned.	L	L	L
NCO 10.4	Provide disaster assistance and evacuation. L - Special detail assigned.	L	L	L
NCO 11	SUPPORT/PROVIDE FOR THE EVACUATION OF NONCOMBATANT PERSONNEL IN AREAS OF CIVIL OR INTERNATIONAL CRISIS.			
NCO 11.1	Support/conduct helicopter/boat evacuation of noncombatant personnel as directed by higher authority from areas of civil or international crisis. L - Boat only, no organic helicopter assets.	L	L	L
NCO 11.2	Provide for embarkation, identification, and processing of evacuees. L - Limited facilities, supplies and size of civilian crew. Limitations will vary by ship/class.	L	L	L
NCO 11.3	Provide care, feeding, and berthing of evacuees. L - Total personnel allowed aboard as per U.S. Coast Guard COI.	L	L	L
NCO 11.4	Provide transportation for evacuees to designated safe havens or onward processing centers.	F	F	F
NCO 24	SUPPORT/CONDUCT ROTARY WING AIRCRAFT OPERATIONS.			
NCO 24.1	Support/conduct day rotary wing aircraft flight operations. L - MCDS ships only. No organic helicopter. Day hover only. In accordance with OPNAVINST 3120.35 Series. No refueling or support capability. Special flight operations detail required.	L	L	L

		III	IV	V/IP
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
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	F
STS 1.2	Use ship's crane(s) to load and discharge containerized cargo.	F	F	F
STS 1.3	Provide ship configuration suitable for container loading and discharging by shore facility (non-self-sustaining container ship).	-	-	F
STS 1.4	Use ship's cranes to load and discharge cargo on/from non-self-sustaining container ships. L - T-ACS ships only.	L	L	L
STS 1.5	Use ship's cranes to load and discharge LASH barges. L - LASH barge carriers only.	-	-	L
STS 1.6	Provide LASH barges suitable for container or breakbulk cargo. L/E - LASH barge carriers only.	-	-	L/E
STS 1.7	Provide pusher tugs for maneuvering LASH barges. L/E - LASH barge carriers only.	-	-	L/E
STS 1.8	Use ship's ramp(s) to load and discharge Roll-on/Roll-off (RO/RO) cargo. L - Self sustaining RO/RO vessels only.	-	-	L
STS 1.9	Ensure that designed cargo spaces are usable for the carriage of cargo.	F	F	F
STS 1.10	Provide operational causeways, warping tugs or other terminal support equipment. L - T-ACS ships only.	L	L	L

		III	IV	V/IP
STS 1.11	Use ship's Underway Replenishment (UNREP) receiving gear to transfer cargo to another vessel underway. L - MCDS ships only. Special detail manned by SELRES Cargo Afloat Rig Teams (CART) required.	L/E	L/E	-
STS 1.12	Use ship's elevator and transporter system to load and discharge SEABEE barges. L - SEABEE barge carriers only.	-	-	L
STS 1.13	Provide SEABEE barges suitable for container or breakbulk cargo. L/E - SEABEE barge carriers only.	-	-	L/E
STS 1.14	Provide pusher tugs for maneuvering SEABEE barges. L/E - SEABEE barge carriers only.	-	-	L/E
STS 1.15	Load, stow, transport and discharge outsized and oversized military equipment.	F	F	F
STS 3	TRANSPORT PASSENGERS.			
STS 3.1	Conduct helo flight quarters for personnel transfer. L - T-AVB ships only. No organic helicopters. Day only (Level III, class 3 - OPNAVINST 3120.35 Series). No refueling or support capability. E - Flight deck manned by USMC when embarked.	L/E	L/E	L/E
STS 3.2	Provide suitable berthing, messing and sanitary facilities for the number of troops or other passengers specified in the unit's POE.	F	F	F
STS 4	PREPOSITION CARGO.			
STS 4.1	Maintain cargo space, including appropriate environmental control, for prepositioned cargo. L - Available only on ships modified for prepositioning role.	L	L	L