



MILITARY SEALIFT COMMAND

MSC TRANSALT Management

Prepared for Military Sealift Command
by Emprise Corporation

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Learning Objectives

- **The overarching objective of this module is to introduce you to MSC's policies and procedures for TRANSALT management**
- **At the conclusion of this module, you will understand and be able to describe the following:**
 - **Definition of an alteration**
 - **MSC policy regarding alterations**
 - **MSC Transportation Alterations (TRANSALTs)**
 - **TRANSALT management roles and responsibilities**
 - **TRANSALT process**



Alteration

- **Any change in hull, machinery, equipment, arrangement, or allowance that involves a change in the design, material, quantity, or location of equipment and components**
 - Includes replacement of machinery or equipment that has different form, fit or function operating characteristics as replaced machinery or equipment; or different manufacturer, make, or model than replaced equipment
 - Does not include substitution in-kind of equipment or components (i.e., same form, fit, function, manufacturer, make, and model)



MSC Policy

- **Per COMSC Instruction 4700.2H, no change to a ship's configuration shall be accomplished without an approved TRANSALT**



Transportation Alteration (TRANSALT)

- **Alterations on MSC ships are referred to as Transportation Alterations (TRANSALTS)**
 - “TRANSALT” used to distinguish MSC alterations from Navy-managed ship alterations (SHIPALTs)
- **Subject to:**
 - Program Manager approval, scheduling, and budgeting
 - N7 technical authority review and approval



TRANSALT Management

- **Process by which TRANSALTs are proposed, evaluated, approved, developed, scheduled, funded, completed, and provisioned**
- **Codified in:**
 - **COMSC Instruction 4700.2H, Alteration Management for MSC Ships**
 - **COMSC Instruction 4790.3C, Equipment Configuration Data Management, Life Cycle and Logistics Support for the Military Sealift Command (MSC)**
 - **SMS Procedure 10.3-002-SQ, TRANSALT Management**



PM TRANSALT Management Responsibilities

- **Responsible for:**
 - Configuration management for assigned ships
 - Establishing and maintaining processes for TRANSALT management for assigned ships that comply with MSC TRANSALT and configuration management policies



SPE TRANSALT Management Responsibilities

- **Responsible for:**
 - **Overseeing alteration management for assigned ships on behalf of PM**
 - **Ensuring compliance with MSC TRANSALT and configuration management policies**
 - **Supervising management of class and ship's life cycle plans, processing of TRANSALT requests, and configuration management support for assigned ships**
 - **Supervising PPE's management of ship's life cycle plan, including scheduling and budgeting for accomplishment of approved TRANSALTs**



CE TRANSALT Management Responsibilities

- **Responsible for:**
 - **Maintaining class and individual ship life cycle plans in support of PM, SPE and PPE maintenance management planning, including updating life cycle plans as required to reflect new, rescheduled, and completed alterations**
 - **Coordinating processing of TRANSALT requests and TRANSALT development**
 - **Providing configuration management support for PM, SPE, and PPE**



PPE TRANSALT Management Responsibilities

- **Responsible for:**
 - Reviewing maintenance requests (e.g., VRRs and CASREPs) submitted by ship's crew to identify potential alterations
 - Reviewing ship's configuration, operational capabilities, machinery history, and current and future maintenance needs to identify needed alterations
 - Working with CE with respect to processing TRANSALT requests and coordinating TRANSALT development
 - Management and execution of ship's life cycle plan, including scheduling and budgeting for accomplishment of approved TRANSALTs



N7 TRANSALT Management Responsibilities

- **Responsible for:**
 - **Evaluating TRANSALT requests for technical acceptability, impact on preventive maintenance, safety and environmentally compliance, and cross-program applicability**
 - **Assisting in development of work items, drawings, cost estimates, and other supporting technical documentation, and obtaining ABS and USCG approval, including soliciting necessary N6 or N4 support for development**



N6 TRANSALT Management Responsibilities

- **Responsible for:**
 - **Establishing and maintaining policies and procedures related to C4S TRANSALTs**
 - **Evaluating TRANSALT requests for C4S alterations for impact to C4S integrated systems/shipboard architecture, impact on preventive maintenance requirements, and cross-program applicability**
 - **Staffing proposed C4S changes with N7 when hull, mechanical, or electrical systems are affected by proposed changes**
 - **Assisting PMs with obtaining regulatory agency review and approval (including ABS and USCG) for C4S TRANSALTs**



N4 TRANSALT Management Responsibilities

- **Responsible for:**
 - **Establishing and maintaining procedures to maintain MSC configuration management**
 - **Evaluating all TRANSALT requests for potential impact to shipboard and ashore logistics support and technical support data**
 - **Assisting PMs with planning and managing provisioning changes associated with completed TRANSALTs**



TRANSALT Management Process

- **Consists of several phases:**
 - TRANSALT request
 - TRANSALT review
 - TRANSALT approval
 - TRANSALT technical and provisioning review
 - TRANSALT development
 - TRANSALT planning
 - TRANSALT execution
 - TRANSALT completion documentation



TRANSALT Request

- **TRANSALT process is initiated by submission of a TRANSALT request to cognizant PM**
 - **Provides detailed description of proposed alteration and associated justification**



TRANSALT Request

- **TRANSALT process is initiated by submission of a TRANSALT request to cognizant PM via SAMM**
 - Provides detailed description of proposed alteration and associated justification



TRANSALT Request Review

- **PM reviews TRANSALT request for:**
 - **Technical and programmatic sufficiency and justification**
 - **Cost/benefit analysis**



TRANSALT Request Approval in Concept

- **Based upon recommendations of PM staff, PM either approves or disapproves the TRANSALT request in concept**
 - **If disapproved, originator is notified regarding the reason for disapproval**
 - **If approved, TRANSALT number is assigned and PM requests N7 support for TRANSALT development N7 In-Service Engineering Tasking form**



TRANSALT Development

- **N7 develops TRANSALT design, work item, drawing(s), cost estimate, and obtains ABS and USCG approvals, as required**
- **N7 submits work item(s), drawing(s), cost estimate(s), and ABS and USCG approvals to PM**



TRANSALT Planning

- **PM reviews work item(s), drawing(s), cost estimate(s), and ABS and USCG approvals to ensure they meet TRANSALT intent and operational and budgetary constraints**
- **PM schedules TRANSALT accomplishment taking into account operational schedule and budgetary considerations**
- **PM updates ship life cycle plans**



TRANSALT Execution

- PPE manages execution of approved, budgeted, and scheduled TRANSALTs in accordance with ship's life cycle plan, including receipt and distribution of required technical and provisioning documentation



TRANSALT Completion Documentation

- PPE documents TRANSALT completion in SAMM
- N7 responsible for updating of SAMM and MSC Technical Library documentation, as necessary, and documenting completion of updates in SAMM
- N4 responsible for updating CLIP and ShipCLIP, as necessary, and documenting completion of updates in SAMM



Let's Review

- Who is responsible for approving TRANSALT requests in concept?
- What are N7's responsibilities with respect to TRANSALT development?
- Who is responsible for budgeting for TRANSALT accomplishment?
- Who is responsible for scheduling TRANSALT accomplishment?
- Who is responsible for documenting TRANSALT completion?



Summary

- **During this module, we have discussed MSC's policies and practices for TRANSALT management, including:**
 - **Definition of an alteration**
 - **MSC policy regarding alterations**
 - **MSC Transportation Alterations (TRANSALTs)**
 - **TRANSALT management roles and responsibilities**
 - **TRANSALT process**



Additional Information

- **For additional information regarding MSC's TRANSALT management policies and practices, please refer to:**
 - **COMSC Instruction 4700.2H, Alteration Management for MSC Ships**
 - **COMSC Instruction 4790.3C, Equipment Configuration Data Management, Life Cycle and Logistics Support for the Military Sealift Command (MSC)**
 - **SMS Procedure 10.3-001-ALL, Ship's Force Configuration Management**
 - **SMS Procedure 10.3-002-SQ, TRANSALT Management**



Final Questions





Revision History

Date	Version	Description	Author
4/8/19	2.0	Revised slide template. Updated content.	Gary Fields
8/7/19	2.1	Verified content is consistent with current COMSC Instructions and QMS and SMS procedures; Corrected minor format errors	Gary Fields



Back-Up Slides



Class Engineer TRANSALT Responsibilities

- **Responsible for:**
 - **Maintaining class and individual ship life cycle plans in support of PM, SPE and PPE maintenance management planning, including updating life cycle plans as required to reflect new, rescheduled, and completed alterations**
 - **Coordinating processing of TRANSALT requests:**
 - **Providing configuration management support for PM, SPE, and PPE**



PPE TRANSALT Responsibilities

- **PPE responsible for:**
 - Reviewing maintenance requests submitted by ship's crew to identify and appropriately process potential alterations
 - Reviewing ship's configuration, operational capabilities, machinery history, and current and future maintenance needs to identify and appropriately process needed alterations
 - Working with CE with respect to coordinating management and execution of ship's life cycle plan, including planning and managing TRANSALT execution



Fleet Modernization Program (FMP)

- Configuration management program used by Navy to manage alterations that affect mission capability and interoperability characteristics of Navy ships and systems (e.g., underway replenishment, survivability, firefighting, flight deck facilities, and aviation communications)
- FMP alterations promulgated as SHIPALTS, MACHALTS, ORDALTS, and BOATALTs which are controlled by NAVSEA



Applicability of Navy-Managed Alterations to MSC Ships

- **Navy–managed alterations consist of:**
 - Fleet Modernization Program (FMP) Alterations
 - Ship Conversion Navy (SCN) Alteration
 - Machinery Alteration (MACHALT)
 - Ordnance Alteration (ORDALT)
 - Boat Alteration (BOATALT)
- **Certain Navy-managed alterations required on MSC vessels in order to provide or maintain interoperability with U.S. Navy ships and systems**



Ship Alteration (SHIPALT)

- **Planned alteration of ship's configuration developed and implemented through FMP process and documented in Ship Alteration Record (SAR)**
 - **Title "K" SHIPALT (K-Alt)**
 - Vital alteration that provides essential military characteristics, upgrades existing systems, provides additional capability not previously held by ship, affects configuration of centrally controlled areas or systems, or requires installation of headquarters centrally provided material (HCPM)
 - **Title "D" SHIPALT (D-Alt)**
 - Alteration that does not affect essential military characteristics of ship - recommendation to fleet for resolving a particular problem
- **MSC utilizes TRANSALT procedures for processing required K-Alts or D-Alts**



Ship Conversion Navy (SCN) Alteration

- **Alteration of ship's system or equipment approved for accomplishment on class of ships using SCN appropriated funds**
 - May also be funded using National Defense Sealift Funds (NDSF)
- **Typically accomplished in connection with ship acquisition programs (new construction or major conversions)**
 - Often referred to as Fleet Modernization Requests (FMRs)



MACHALTs, ORDALTs, and BOATALTs

- **Machinery Alteration (MACHALT)** - planned alteration of shipboard hull, mechanical or electrical equipment or systems for which changes are constrained to boundaries of individual equipment or system and have limited system ramifications
- **Ordnance Alteration (ORDALT)** – any planned alteration, other than SHIPALT, to configuration of ordnance equipment or system (including embedded equipment and computer programs)
- **Boat Alteration (BOATALT)** - any planned alteration, other than SHIPALT, to configuration of Navy standard boat