

Chapter 6: Configuration Management

6.0 Shipboard Configuration Management

The objective of shipboard configuration management is to maintain the accuracy of a vessel's installed equipment database so that spare parts necessary to support the vessel for 180 days can be obtained.

6.1 Configuration Management Databases

6.1.1 Requirement to Maintain the Vessel's Installed Equipment Databases

The Ship Manager, or Chief Engineer of a school ship, is required to update the installed equipment database contained in PC-SAL within five (5) working days¹ of the removal, modification or installation of shipboard equipment.

6.1.2 Proposed Configuration Changes

To allow MARAD to review the logistic support impact of proposed configuration changes, the Ship Manager will complete a Configuration Change Proposal (MA-986) and forward it to the cognizant surveyor for action. A sample MA-986 is provided as Fig. 6-1.

Contracts initiated by Ship Managers and MARAD surveyors for new shipboard equipment must include spare parts necessary to meet MARAD's 180-day sustainability requirement.

6.1.3 Requirement to Recommend Changes to the Spare Parts Support

To support MARAD's stated goal of 180-day sustainability, the Ship Manager will, as necessary, recommend the addition or deletion of spare parts to support equipment installed on the vessel. These recommendations will be forwarded on an Allowance Change Request (MA-984) to the region LMO. A

¹ Federal Acquisition Regulations (FAR) Subpart 45.506, Identification.

sample of an Allowance Change Request (ACR) is shown in Fig. 6-2.

6.1.4 Procurement of New Spare Parts in Conjunction with the Installation of New Equipment

Contracts initiated by Ship Managers and MARAD surveyors for new equipment must include the spare parts necessary to meet MARAD's 180-day mission sustainability requirement.²

6.2 Management of Shipboard Allowances

Spare parts held in the ship's inventory are based on a MAR-614 approved Ship's Allowance List or SAL³, which is the primary database provided in PC-SAL. Changes to these allowances normally result from the following:

- Observations and recommendations by the Chief Engineer.
- Parts usage information gathered from maintenance history.
- Changes in equipment configuration.
- Programmed efforts to standardize shipboard allowances.
- Other adjustments necessary to assure 180-day mission sustainability.

In many cases, the Ship Manager is free to adjust existing spare part allowances while other changes may require MAR-611/614 approval. *In either case, it is essential that all allowance changes be documented on an ACR so that the change can be posted in MLSS.* MAR-611/614 reserves the right to disapprove any ACR that would adversely affect the mission readiness of the vessel.

² Maritime Administration Policy Decision Memo 97-5, dated August 12, 1997.

³ Maritime Administrative Order 630-7, dated June 24, 1996.



6.2.1 Increases in Allowances that Do Not Require MARAD Approval

The following allowance increases do not require prior approval from MAR-614:

- a. Parts with an acquisition cost of less than \$2,500.00, purchased locally with funds held at the region, do not require prior approval by MAR-611/614. *However, an ACR (Form MA-984) is required to document the increase or establish the new allowance in MLSS (see Table 6-1).*
- b. New spare parts purchased or provided as part of the installation of any new equipment automatically establish new allowances without prior approval; however, an ACR must be forwarded to MAR-611/614 to document the change in MLSS.
- c. When PC-SAL automatically adjusts an allowance (via usage) no ACR is required. (See the PC-SAL 4.0 User Guide.

Request	Action
Increase an allowance with a unit price of <\$2,500	Requires no prior approval from MAR-611/614; however, an ACR is required to document the change in MLSS.
Increase and allowance with a unit price of >\$2,500	Requires approval from MAR-611/614. Request this increase on an ACR submitted to the region LMO.
Decrease and allowance	Requires approval from MAR-611/614. Request this increase on an ACR submitted to the region LMO.

Table 6-1: Authorization to change allowances



<input type="button" value="Clear Form"/> <input type="button" value="Save Form"/> <input type="button" value="Print Form"/>		
Configuration Change Proposal		
From: <input style="width: 95%;" type="text"/> To: <input style="width: 95%;" type="text"/> Via: <input style="width: 95%;" type="text"/>	Ship Name: <input style="width: 95%;" type="text"/> Date of Request: <input style="width: 95%;" type="text"/> Request Type: <input type="checkbox"/> Equipment removal <input type="checkbox"/> Equipment addition <input type="checkbox"/> Equipment changeout <input type="checkbox"/> Configuration change to existing equipment	
Equipment to be REMOVED (Nomenclature, Number, Location, and System Application Code)	Equipment to be ADDED (Nomenclature, Number, Location, and System Application Code)	JUSTIFICATION (Check all that are appropriate)
<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input type="checkbox"/> Correction of error or deficiency <input type="checkbox"/> Parts support problems <input type="checkbox"/> Cost savings <input type="checkbox"/> Work stoppage/schedule problem <input type="checkbox"/> Technology upgrade <input type="checkbox"/> Operational requirements
Describe (attach additional pages or supporting documentation if necessary): a) Requirements for accomplishing change b) Impact of the change c) Advantages and disadvantages to be realized		
<input style="width: 100%; height: 100%;" type="text"/>		
_____ Signature and Title		
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Other (Specify)	Remarks: <input style="width: 95%; height: 30px;" type="text"/>	
_____ Signature and Title		
Form MA-986 (3-92)		

Figure 6-1: Config. Change Proposal (MA-986)





US Department of Transportation
Maritime Administration

Allowance Change Request

From: 		Ship Name: 	Date of Request: 			
To: 		Request Type: <input type="checkbox"/> Allowance Increase <input type="checkbox"/> Item Addition <input type="checkbox"/> Item Currently On Board <input type="checkbox"/> Allowance Decrease <input type="checkbox"/> Item Deletion <input type="checkbox"/> Item Not Carried On Board				
Via: 						
Equipment Nomenclature and Number	Repair Part(s) Description, Manufacturer, Part Number	Unit of Issue	Unit Price	Present Quantity Allowed	Recommended Quantity	Extended Value of Change
						0.00
Justification (Mandatory): <div style="background-color: yellow; width: 100%; height: 40px;"></div>						
_____ Signature and Title						
MAR-614 Action: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Other (Specify)	Remarks: <div style="background-color: yellow; width: 100%; height: 30px;"></div>					
_____ Signature and Title						

Form MA-984 (3-92)

Figure 6-2: Allowance Change Request (MA-984)



6.2.2 Increases in School Ship Allowances

Spare parts purchased locally with school ship funds, or funds provided to Maritime Academies by MARAD, do not require prior approval by MAR-611/614. Similarly, new allowances are automatically established and approved, when a school ship purchases spare parts as part of the installation of new equipment. *However, in both of these instances an ACR (Form MA-984) must be submitted to document the increase or establishment of a new allowance in MLSS.*

6.2.3 Increases in Allowances Funded by MAR-614

Ship Managers or surveyors may request that MAR-614 "provision" a specific piece of equipment (i.e., fund an increase to an existing allowance, or establish a new allowance). If approved, MAR-614 will procure the spare part and have it shipped to the vessel. Procurement of spare parts in support of an ACR is dependent on available funding and the criticality of the system. All ACRs should be forwarded to the region LMO.

Ship Managers or surveyors may request that MAR-614 provision a specific piece of equipment.

6.2.4 Decreases in Allowances

Requests to decrease an allowance for installed equipment require the approval of MAR-611/614 and will be forwarded to the region LMO on an ACR.

6.3 Equipment Mission Criticality

Each system, equipment and component on board an RRF vessel has been assigned a Mission Criticality Code (MCC) to denote its importance to the mission of the vessel. MAR-614 also uses these codes to prioritize the procurement of centrally funded spare parts. MCCs range from 1 (least critical) to 4 (most critical). A complete list of Equipment Mission Criticality Codes is provided in Table 6-2.

Alternatives for Mission Accomplishment			Impact If Alternatives Fail
I	II	III	
3	4	4	Total loss of mobility
2	3	4	Severe Degradation of mobility or a total loss of a primary mission
1	2	3	Severe degradation of a primary mission
1	1	2	Total loss or severe degradation of a secondary mission
1	1	1	Minor mission impact

Notes:

Alternative I: Redundant systems, equipment or components available

Alternative II: Alternatives (excluding redundancies) available.

Alternatives III: Neither redundancies nor other alternatives available.

Table 6-2: Equipment Criticality Matrix

6.4 Provisioning

6.4.1 Ship Managers are Responsible for Provisioning RRF Vessels

It is the primary responsibility of the Ship Manager to identify and purchase spare parts to sustain RRF vessels for 180 days. Within the restrictions set forth in 6.2.1, the Ship Manager will identify spare part allowances that need to be adjusted, enter the appropriate changes in PC-SAL, and request funding to procure the required spare parts.

It is the primary responsibility of Ship Managers to identify and purchase spare parts to sustain RRF vessels for 180 days.



6.4.2 MAR-614 Provisioning Packages

To assist the vessel, MARAD may initiate a review of the spare parts support for a specific piece of equipment installed on an RRF vessel. This review, also called "provisioning," normally leads to the establishment of revised spare part allowances and the procurement of additional spare parts by MAR-614. However, before MAR-614 initiates the procurement a "provisioning package" will be prepared and forwarded to the vessel for review.

6.4.3 Review of Provisioning Packages

The Ship Manager must review recommended allowances listed in MARAD provisioning packages.