

PAFOS

Chapter 4

Provisioning

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4.0 INTRODUCTION

As delineated in the NAVSEA Organization Manual, the Deputy Commander for Nuclear Propulsion (SEA 08) is responsible for all technical matters pertaining to nuclear propulsion of the U. S. Navy ships and craft, including all aspects of integration of the nuclear plant into the ship system. Nothing in this technical specification detracts in any way from those responsibilities. Additionally, the policy and guidance in this technical specification are not applicable to TRIDENT Weapon Systems, which use the Consolidated Data File (CDF).

Assistant Secretary of the Navy (Research, Development and Analysis) [ASN (RD&A)] policy states it is imperative that all equipment, including commercially available equipment, be logistically supported for its life cycle. The Navy's intent is to buy cost effective support to satisfy user requirements. Operational scenario and readiness objectives form the basis for this support. Specifically, total cost of ownership, the maintenance concept for the equipment, standardization, and supportability requirements will be considered.

Based on ASN (RD&A) policy, all systems and equipment will require some level of provisioning to establish supply support. Provisioning is the process of determining and acquiring the range and depth of material necessary to support and maintain a system or equipment for all levels of maintenance for an initial period of service. The term "range" refers to the number of different spare parts carried onboard, while the depth refers to the number of each part carried onboard.

Innovative strategies for logistically supporting the commodity types are encouraged and should be visible to the Fleet. One way this can be accomplished is through the establishment of a Provisioning Team. The Provisioning Team will exchange information with the Program IPT and provide assistance during the supply support methodology determination process, tailoring supply support requirements, implementing streamlining techniques, and developing contractual requirements.

Provisioning data is derived by engineers through analysis of the Reliability and Maintainability (R&M) data. The engineering community is responsible for performing a Repair Analysis Supportability Summary. This information provides provisioning data required to establish supply support. The

Logistics Management Information (LMI) Performance Specification (MIL-PRF-49506) provides policy for obtaining provisioning data. The provisioning information obtained from the modified LMI Worksheet (see Appendix A, Program Manager Guide), the Program Support Data (PSD) sheets, and the maintenance concept provide the data required to accomplish the provisioning process. These data, along with system and equipment drawings, are needed to determine the range and depth of spare and repair parts required for operation, maintenance, repair and overhaul of the hardware being acquired.

4.1 PROVISIONING BACKGROUND

Part of the decision-making process that determines the range of parts to go onboard ship includes deciding what levels of maintenance are appropriate for the equipment. Organizational Level Maintenance refers to maintenance actions performed by the user activity. Repair actions requiring greater maintenance capability are known as Intermediate Level actions and they are performed by fleet maintenance activities. Highly complex maintenance actions may be performed by the original manufacturer or a Naval or private shipyard and are known as Depot Level Maintenance.

The maintenance planning process begins prior to the provisioning process for new equipment to determine correct level-of-maintenance decisions. A Maintenance Planning Supportability Analysis is performed first to determine the maintenance philosophy for the equipment. A Repair Analysis Supportability Summary can then be used to define the maintenance concept for equipment, and define the maintenance actions to be performed at each maintenance level for that piece of equipment. The LMI Performance Specification provides additional guidance on Supportability Analysis Summaries.

PTD is the generic term used to reference the various types of provisioning data bought from a manufacturer. This term is used by the DOD components for the identification, selection, and determination of initial requirements and cataloging of support items to be procured through the provisioning process. Applicable PTD consists of EDFP, CID, and various Data Product Deliverables including:

- (a) Provisioning Parts List (PPL)
- (b) Long Lead Time Items List (LLTIL)
- (c) Repairable Items List (RIL)
- (d) Interim Support Items List (ISIL)

- (e) Tools and Test Equipment List (TTEL)
- (f) Common and Bulk Items List (CBIL)
- (g) Design Change Notices (DCN)
- (h) Post Conference List (PCL)
- (i) System Configuration Provisioning List (SCPL)
- (j) Ship Level Provisioning Parts List (SLPPL)

The level of detail for the PTD will depend on whether the system or equipment has parts subject to wear-out, failure, or replacement and that require maintenance at the organizational, intermediate, or depot level. Systems or equipment that does not require piece part support will require adequate PTD to establish a configuration record for the system or equipment. The requirement for PTD must be specified in the system or equipment contract by invoking the applicable performance specification modified to meet the specific requirement of the individual Navy acquisition.

4.2 NAVSEA PROVISIONING POLICY AND RESPONSIBILITIES

- a. Chief of Naval Operations (CNO) policy directs that all new equipment, modifications or alterations to existing equipment be logistically supported. Documents that define policy and/or guidance on provisioning include this manual, the LMI Performance Specification (MIL-PRF-49506), the NAVSEA Program Manager Guide (PMG) (see Appendix A), and the Acquisition Logistics Handbook (MIL-HDBK-502) dated May 1997. The LMI Performance Specification replaced Military Standard 1388.2B. The LMI Performance Specification applies to all services within the Department of Defense (DoD).
- b. PTD will be provided in the digital format as specified by the LMI Worksheet Attachment of the PMG that the Navy can sort into different provisioning data products. These data products are described in Section 4.9.0.
- c. PTD contractual requirements will be included in every hardware acquisition for equipment requiring maintenance and spare/repair parts support.

- d. PTD is required for Commercial-Off-the-Shelf (COTS). The NAVSEA PM and the Provisioning IPT will determine the specific provisioning requirements.
- e. The NAVSEA or SPAWAR engineering activity typically responsible for Life Cycle or In-Service support of the equipment/component similar in function to the equipment to be provisioned shall be funded by the Ship Program Manager (SPM) or PM to serve as the TSA responsible for validating and generating the technical and engineering data and decisions of the provisioning process.
- f. The TSA will submit all initial provisioning and all subsequent Allowance Parts List (APL) updates and/or corrections to NAVICP via the Interactive Computer Aided Provisioning System Client-Server (ICAPS C/S).
- g. The Provisioning Gatekeeper shall review and verify Allowance Override (AOR) Code assignments for AORs that have direct impact on shipboard allowances as follows:
 - A Readiness AOR. Assigned to a part derived from a Readiness Based Sparing (RBS) analysis to support a system readiness (Ao) goal.
 - E Micro-Miniature (2M) Repair/Naval Facilities (NAVFAC) AOR. Authorized for use only by NAVFAC and the TSA for 2M Support APLs.
 - F NO LONGER AUTHORIZED FOR USE. "F" AOR was cancelled per fleet, NAVSEA and NAVSUP concurrence during the May 5, 2005 Maritime Allowance Working Group (MAWG).
 - P Planned Maintenance (PMS) AOR. Assigned to an item with a supporting Maintenance Index Page (MIP)/Maintenance Requirement Card (MRC), specifying replacement (always) with a periodicity of a year or less.
 - S Safety AOR. Assigned to an item that with continued operation of the equipment without replacement of the failed part will directly and immediately infringe on the safety of personnel

operating or maintaining the equipment.
Justification must be provided to the Gatekeeper
by the ISEA/TSA.

- h. ICAPS C/S is the only authorized tool for the assignment and maintenance of the following technical DPDs:

- Allowance Note Code (ANC)
- Allowance Factor Code (AFC) and AFC Qty
- Allowance Override (AOR) Code and AOR Qty
- Demilitarization Code
- Essentiality Code (EC)
- Minimum Replacement Unit (MRU)
- Source, Maintenance and Recoverability (SM&R) Code
- Technical Replacement Factor (TRF)

- i. NAVICP's File Maintenance Tool (FMT) as well as any other methods or tools for assigning or updating/correcting the above DPDs are not authorized for NAVSEA or SPAWAR equipment. For more information on the above elements, see paragraph 4.11.0 (NAVSEA Provisioning Technical Code Guidance).

- j. The NAVSEA SPMs and PMs will:

- Establish Provisioning Teams
- Explore provisioning streamlining techniques
- Invoke PTD and PIOs
- Plan, program and budget for PTD and provisioning actions
- Designate and fund a TSA and establish supply support at Preliminary Operational Capability (POC).

Specific roles and responsibilities are defined in section 4.3.1.

4.2.1 Provisioning Responsibilities

The NAVSEA provisioning responsibilities are defined in the following paragraphs:

4.2.1.1 Fleet Logistics Support Directorate, NAVSEA 04L

- a. Establish and maintain current directives and instructions to provide provisioning guidance so that PMs can properly contract for provisioning data.
- b. Operate the Program Support Data Automated Reporting and Tracking System (PARTS) database to assist in the preparation of PSD sheets for systems and equipment. Consolidate PSD sheets for submittal to NAVICP. Assist in budgeting for outfitting funds.

4.2.1.2 Naval Sea Logistics Center (NSLC)

- a. Ensure ICAPS (Standalone and Client/Server) reflect all current NAVSEA policy, and all required DPDs are present with accurate validations.

4.2.1.3 Ship Program Manager (SPM)

- a. Ensure complete and correct provisioning requirements, as tailored to the individual program by the Provisioning IPT, are included as a separate contract line item in the contract and ensure those requirements are met.
- b. Ensure the requirements for PTD are included in Ship Project Directives (SPDs) and ensure those requirements are met.
- c. Ensure contractors and ship builders invoke PTD requirements in their subcontracts for systems and equipment. Require maximum utilization of the system or equipment manufacturer, system integrator, or Navy Industrial Facility databases to fully develop PTD.
- d. Ensure that PTD for systems and equipment assembled or fabricated by a Navy Industrial Activity is prepared to the same specification and level of detail as PTD procured from a system or equipment manufacturer.
- e. Ensure PIO requirements are included as a separate contract line item in the contract.

- f. Establish MSDs and prepare PSD sheets in coordination with NAVICP for designated Mission Critical CFE and for CFE requiring spares which cost over \$100K per year (For additional information see PAFOS Chapter 3 (Programming and Budgeting)).
- g. Provide the ship's maintenance planning documentation to the TSA and NAVICP.
- h. Monitor the contractors, ship builders, system and equipment Program Managers, NSAs, TSAs, and NAVICP to ensure that PTD is obtained and processed in time to meet the operational requirements.
- i. Plan, program, and budget for the acquisition of PTD and for those provisioning actions to be accomplished by the TSA/other designated NAVSEA engineering activities.
- j. Ensure all PTD is submitted to the TSA for review and approval.
- k. Task the TSA to provide guidance and assistance to all provisioning activities as required.
- l. Establish/participate as member of IPTs as required.
- m. Provide Ship Project Directive (SPD) to the PM for GFE being installed.
- n. Require the NAVSEA/SPAWAR PMs to provide GFE provisioning status to the Naval Supervising Activity (NSA) for entry into the configuration database.
- o. Convene a Provisioning Guidance Conference within 90 days after shipbuilding contract award to ensure the shipbuilder understands the provisioning requirements for CFE. Ensure that concerned activities attend the conference. Finalize and confirm a PTD Submission Schedule at this conference.

4.2.1.4 System or Equipment Program Manager (PM)

- a. Ensure that correct and complete provisioning requirements, as tailored to the individual program by the Provisioning IPT, are included in contracts for

systems or equipment, all design changes, alterations and modifications. Require system integrators and system or equipment manufacturers to include the requirement for PTD and PIO in their subcontracts.

- b. Ensure ISS option is included in the equipment contract. For organically supported systems and equipment, ISS will be required from the POC date until MSD is achieved (See PAFOS Chapter 5 (Interim Supply Support (ISS))).
- c. Plan, program, and budget for the acquisition of required PTD and for those provisioning actions to be accomplished by the designated TSA.
- d. Designate a NAVSEA engineering activity to act as a TSA in technical matters pertaining to provisioning and to carry out the TSA responsibilities as assigned by this document.
- e. Monitor the TSA's progress to ensure PTD is delivered to NAVICP in a timely manner.
- f. Ensure that provisioning data is submitted to NAVICP, via the TSA, for the system or equipment during its life cycle for all changes (alterations, field changes, part changes, etc.) that occur after production.
- g. Tasks the TSA to provide guidance and assistance to the system or equipment manufacturer or system integrator in preparation of provisioning data invoked in the contract.
- h. Develop PSD sheets and negotiate the MSD with NAVICP and submit to NAVSEA 04L. PMs will use the PARTS database in the preparation and control of PSD sheets.
- i. Ensure that PTD is submitted and that provisioning actions are completed in time to achieve supply support by the POC. This eliminates the need for ISS.
- j. Establish and chair provisioning conferences.
- k. Provide the system or equipment maintenance planning documentation to the TSA and NAVICP.

- l. Provide copies of drawings and technical data, which will support the competitive procurement of nonstandard spare and repair parts as part of the PTD when a system or equipment acquisition includes the cost of design and development as a Government expense.
- m. Invoke PTD requirements in accordance with MIL-PRF-49506 in both the EMD contract and the production contract for developmental items and Commercial-Off-The Shelf/Non-Developmental Items (COTS/NDIs).
- n. Provide up to date provisioning status for each item of GFE to the Cognizant NSA for input to the configuration database.
- o. Establish/participate as member of IPTs as required.

4.2.1.5 NAVSEA Technical Support Activity (TSA)

- a. Act as the engineering representative for technical matters pertaining to provisioning of GFE and CFE systems and equipment.
- b. Receive PTD from the system or equipment manufacturer, system integrator, Navy Industrial Facility, or NSA for review and acceptance or rejection. Acceptance or rejection will be based on, but not limited to, acquisition Contract Data Requirements Lists (CDRLs) and on the adequacy of the PTD to complete provisioning.
- c. Utilize ICAPS C/S for all initial provisioning and subsequent Allowance Parts List (APL) updates/corrections submissions to NAVICP.
- d. Verify or complete technical coding of PTD in accordance with the maintenance plan.
- e. Provide supply support configuration/APL Worthiness guidance to the contractor/ship builder.
- f. Determine final supply support configuration/APL worthiness.

- g. Forward approved PTD to NAVICP for further processing.
- h. Ensure that provisioning information is submitted to NAVICP for all ISEA-initiated changes to systems or equipment.
- i. Provide provisioning status to designated activities as required.
- j. Participate in required provisioning conferences.
- k. Notify the SPM or PM of any problems that will prevent timely completion of PTD processing.
- l. Review APLs developed as a result of provisioning and coordinate corrections/updates with NAVICP.
- m. Ensure that APLs provide required supply support (down to the repair part level) for the system or equipment being acquired.
- n. Reflect the supply support methodology through the assignment of the Logistic Support Status Code (LSSC).
- o. Participate as member of IPTs as required.

4.2.1.6 Naval and Commercial Shipyards

- a. Ensure that the requirements for PTD are invoked in contracts for emergent systems and equipment acquired for ships undergoing repair and modernization.
- b. Purchase provisioning information for locally procured equipment bought by the shipyard.
- c. Prepare PTD for shipyard manufactured or fabricated system or equipment.
- d. Forward PTD to the TSA.
- e. Ensure configuration files are updated.
- f. Attend provisioning conferences.

- g. Participate as member of IPTs as required.

4.2.1.7 Naval Supervising Activity (NSA)/Supervisor of Shipbuilding, Conversion and Repair, USN (SUPSHIP)

- a. Serve as the Navy's on-site technical representative for ensuring contract requirements are met.
- b. Monitor the contractor's progress in achieving PTD schedules established in contracts for shipbuilding, conversion, overhaul, or repair.
- c. Attend provisioning conferences.
- d. Expedite shipment of PTD to the TSA.
- e. Prepare reports to the NAVSEA PM indicating problems and delinquencies in achieving supply readiness for ships under construction, conversion, overhaul, or repair.
- f. Ensure the configuration database is maintained to monitor the status of provisioning for new construction ships. Provide reports to the appropriate NAVSEA PM and cite any delinquent provisioning actions.
- g. Participate as member of IPTs as required.

4.2.1.8 Shipbuilder

- a. Purchase or develop provisioning information in accordance with contract requirements.
- b. Serve as member of IPTs as required.
- c. Submit provisioning to the government as required.
- d. Attend and/or host provisioning conferences as required.
- e. Participate as member of IPTs as required.

4.2.1.9 Naval Inventory Control Point (NAVICP) as the Provisioning Inventory Control Point (PICP)

- a. Provide Provisioning Contract Control Numbers (PCCNs) to the provisioning submitter(s).
- b. Load WSF data files.
- c. Establish wholesale/retail system stock, as applicable.
- d. Coordinate NSN assignment.
- e. Perform FLIS screening.
- f. Perform supply management coding.
- g. Assign RICs as requested by the TSA.
- h. Produce allowance lists.
- i. Participate as member of IPTs as required.
- j. Attend provisioning conferences.

4.2.1.10 Manufacturer

- a. Develop PTD for the system or equipment and deliver to the government in accordance with the contract.
- b. Include the same provisioning information requirements established by the government into vendor/subcontractor contracts.
- c. Submit provisioning data to the TSA as required.
- d. Attend or host provisioning conferences as required.
- e. Participate as member of IPTs as required.

4.3 PROVISIONING REQUIREMENTS

PTD requirements will be submitted in accordance with the PMG, which is based on MIL-PRF-49506.

- a. PTD will be invoked as a separate line item in all ship, system and equipment contracts. PTD requirements will be invoked in *both* the EMD acquisition phase contract and the production contract for Developmental Items (DI) and Commercial-Off-The-Shelf/Non-Developmental Items (COTS/NDI).
- b. PTD for the acquisition of follow-on systems or equipment purchased from the original contractor may use the provisioning specification invoked in the original contract.
- c. PIO options will be included in all contracts.
- d. Waivers of provisioning requirements, either during contract negotiations or after contract award, must be submitted to NAVSEA 04L4 for approval.

4.3.1 NAVSEA Program Manager Guide (PMG)

To ensure all provisioning requirements become part of the contract used to procure a ship or system/equipment, NAVSEA has developed the PMG, which provides examples of the documents needed in a contract in order to get complete and accurate PTD for the following commodity types:

- a. Developmental Systems and Equipment.
- b. Commercial-Off-The-Shelf/Non-Developmental Items (COTS/NDI).
- c. Shipbuilding and Conversion.
- d. Ship Overhaul and Availability.
- e. Small Boats and Craft.

It describes the *minimum recommended* requirements that might be called for in a contract. It is the responsibility of the Program IPT and the Provisioning Team to tailor the support requirements for each individual acquisition. Additional requirements should be included as necessary. The NAVSEA PMG is provided as Appendix A.

The NAVSEA PMG provides the following information to assist the Acquisition Manager in preparing the contract to include provisioning requirements:

- a. A blank Provisioning Requirements Introduction form to be completed by the PM, with input from the Provisioning Team.
- b. A blank (modified) LMI Worksheet to be completed by the Provisioning Team with input by the PM.
- c. Sample Statement of Work (SOW).
- d. The Contract Data Requirements Lists (CDRLs) (DD Form 1423-2), which should be reviewed and modified as required by the PM and the Provisioning IPT, and accompanying Data Item Descriptions (DIDs) for each contract deliverable.

4.3.2 Ship's Specifications

Another important document in describing the provisioning requirements needed to support Navy ships and equipment is the Ship's Specification.

Each ship that the Navy contracts to build has a Ship's Specification. This document describes a wide range of requirements that need to be met in order for the shipbuilder to complete the shipbuilding contract. This includes requirements such as the type and grade of steel to be used in building the ship, the number and placement of fire extinguishers, and supply support requirements. The section of the Ship's Specification that speaks to supply support, known as the 083 Section, defines provisioning and explains its part in achieving supply support. Each Ship's Specification is specially written for that class of ship and is tailored from a generic document produced by the Navy known as the NAVSEA General Specification S9AAOA-AA-SPN-010 or Gen Spec for short.

It does not require the Contractor or shipbuilder to provide PTD. The contract and CDRLs (which the PMG provides as samples) make provisioning information a "deliverable" and part of the contract. The following section examines the provisioning requirements that are invoked in a contract.

4.4 PROVISIONING TECHNICAL DOCUMENTATION (PTD) PROCESSES

To fully describe the provisioning process and the flow of PTD, it will be useful to better explain the difference between Government Furnished Equipment (GFE) and Contractor Furnished Equipment (CFE).

The Navy contracts with a shipbuilder to build a ship according to certain specifications, and much of the equipment installed onboard the ship is bought by the shipbuilder from equipment manufacturers across the United States. This is CFE, also referred to as Locally Procured Equipment. Most CFE, such as pumps, motors, electrical cables and so on, is known as Hull, Mechanical and Electrical equipment or HM&E. In addition, the Navy has some specially made equipment, mostly electronics and ordnance, installed onboard its ships. These are GFE identified by Schedule A of the shipbuilding contract and purchased with separate contracts with their own provisioning requirements. GFE can be anything from radio sets to weapon systems. The GFE must arrive at the shipbuilder at the proper time, and the design information must be correct so that the GFE will fit and function correctly onboard the ship and interface, as appropriate, with the shipbuilder's CFE equipment.

NAVSEA PMs will submit PSD sheets for each hardware acquisition involving GFE. In addition, PSD sheets will be submitted on CFE that have been designated mission critical or require spares costing more than \$100K per year as determined by the NAVSEA PM and NAVICP. The Program Support Data Automated Reporting and Tracking System (PARTS) database will be used in the preparation of the PSD sheets. PSD sheets will support the budgeting and requirements determination process for initial, interim and follow-on spare and repair parts.

Because these two types of equipment are bought differently, their provisioning processes and the players involved are also different.

4.4.1 CFE Provisioning Process

The following paragraphs explain the flow of Provisioning Technical Documentation (PTD) for CFE:

- a. NAVICP provides the shipbuilder, shipyard (naval or commercial) with a list of Provisioning Contract Control Numbers (PCCNs) at the Provisioning Guidance

Conference (PGC). These PCCNs are used to identify each PTD package and track it throughout the provisioning process.

- b. The shipbuilder/shipyard is required to provide the provisioning data according to the contract.
- c. The ship builder/shipyard receives the provisioning information from the equipment vendors.
- d. The shipbuilder/shipyard consolidates the provisioning data, identifies each package by assigning a PCCN, and enters the data into ICAPS or ICAPS compatible format. If the vendor has submitted the data to the shipbuilder in ICAPS, then this step has already been completed. Some shipbuilders hire subcontractors to perform this work and provide it to the shipbuilder.
- e. The shipbuilder or shipyard passes the provisioning data to the TSA with a copy of the transmittal letter to the NSA. However, in some contracts the NSA receives the packages, records the PCCN in order to track the progress of the provisioning work, and then passes the data to the TSA.
- f. The TSA receives the data and determines APL-Worthiness. If the data is APL-Worthy the TSA will accept or reject the PTD based on, but not limited to, the CDRLs and adequacy of the PTD. If the data is accepted, the TSA verifies/assigns technical coding and submits the data to NAVICP via ICAPS C/S for further processing.
- g. When NAVICP receives the PTD packages, they record the PCCN for tracking purposes and then route the packages to the NAVICP provisioning departments responsible for the type of equipment involved. Once the PTD package is previewed by NAVICP, an APL number is assigned and the submitter is notified via the TSA. NAVICP then processes the HM&E PTD packages by reviewing the PTD for adequacy, resolving concerns with the TSA, assigning supply management coding and loading various provisioning data files in the WSF.
- h. If NAVICP-M changes one of the Technical Codes monitored by ICAPS, ICAPS will automatically send a

"TSA Notification" report to the TSA. The PCCN is held in abeyance at this point until the TSA reviews the changes suggested by the NAVICP-M provisioner. If the TSA concurs with the suggested changes, the TSA shall update the ICAPS PCCN Header to show TSA Concurrence. If the TSA disagrees with the suggested changes, the TSA shall contact the NAVICP-M provisioner (identified by ICAPS) to resolve the differences. Once TSA concurrence is achieved, the WSF is loaded and the APL is complete. At this point, a Provisioning Parts List Index (PPLI) may be run in ICAPS C/S to be used as an R060. The TSA uses the PPLI (R060) to validate the provisioning decisions.

- i. The shipbuilder or shipyard enters the APL in the configuration database that is being developed for the ship.

4.4.2 GFE Provisioning Process

The flow for the GFE provisioning process is similar to the flow for CFE provisioning - with a few important differences. The following paragraphs will explain the flow.

- a. The Contractor prepares the provisioning data for the GFE. If ICAPS is not being used for data development, GFE Contractors must submit their PTD in ICAPS-compatible format as described in the PMG (Appendix A of this chapter). The Contractor forwards the data to the TSA.
- b. The TSA receives the data provided by the equipment contractor and determines final APL-Worthiness. If the data is APL-worthy the TSA will accept or reject the PTD based on, but not limited to, the CDRLs and adequacy of the PTD. If the data is accepted, the TSA verifies and/or assigns technical coding and submits the data to NAVICP via ICAPS C/S for further processing.
- c. When NAVICP receives the PTD packages, they record the PCCN for tracking purposes and then route the packages to the NAVICP provisioning departments responsible for the type of equipment involved. Once the PTD package is previewed by NAVICP, a Repairable Identification Code (RIC) is assigned in ICAPS C/S and the submitter

is notified via the TSA. NAVICP then processes the PTD packages by reviewing the PTD for supply management cataloging adequacy, resolving concerns with the TSA, assigning supply management coding and loading various provisioning data files in the WSF.

- d. If NAVICP-M changes one of the Technical Codes monitored by ICAPS, ICAPS will automatically send a "TSA Notification" report to the TSA. The PCCN is held in abeyance at this point until the TSA reviews the changes suggested by the NAVICP-M provisioner. If the TSA concurs with the suggested changes, the TSA shall update the ICAPS PCCN Header to show TSA Concurrence. If the TSA disagrees with the suggested changes, the TSA shall contact the NAVICP-M provisioner (identified by ICAPS) to resolve the differences. Once TSA concurrence is achieved, the WSF is loaded and the APL is complete. At this point, a PPLI may be run in ICAPS C/S to be used as an R060. The TSA uses the PPLI (R060) to validate the provisioning decisions.
- e. The NAVSEA TSA ensures the updated APL is provided to the appropriate activity to update the ship's configuration database.

4.4.3 Preliminary Allowance List (PAL) Process

In the past, the PAL process was linked directly to the requirement for 0 COG NSNs for Interim Supply Support (ISS). Based on the process improvements identified during the NAVSEA 04L sponsored ISS Value Stream Analysis (VSA) conducted in July 2007 and the process definition determined by the Provisioning Center of Excellence (PCOE) meeting of November 2007, the following PAL process improvements were identified:

- PALs shall be utilized as a replacement for Allowance Appendix Pages (AAPs). They will be used whenever approved Engineering Data for Provisioning (EDFP) is not available and in accordance with the timeframes provided below.
- Equipment supported with 0 COG NSN(s) does not necessitate the requirement for a PAL. An APL with a Fully Supported Logistics Support Status Code (LSSC) shall be developed. This revised procedure will allow the building of an APL from outset in lieu of a PAL when drawings and complete

provisioning data are available. Developing an APL from the outset when EDFP is available in lieu of a PAL is more efficient and facilitates subsequent APL maintenance/update process including the transition of 0 COG NSN items to full support NSNs.

- Either an APL or PAL (sans drawings) must be developed to document ISS and properly manage shipboard allowance updates. This supports the recent joint NAVSEA/SUP MSG R282125Z Aug 07 requiring the delivery of ISS spares with a valid APL or PAL.
- The Non Standard Allowance File (NSAF) (heretofore developed to document RBS decisions) will be used to document ISS outfitting requirements and ensure follow-on ASI allowance updates reflect these sparing decisions/delivery of parts. Since the NSAF entries are specific to a ship, application (APL or PAL) and NSN it can be tailored to the ISS process to ensure uniform and consistent allowance computation by the application of an "A" AOR/Qty. Note: "A" AORs will be transitioned to new SAF "U" (defined specifically for ISS) upon Reengineered Maritime Allowance Development (ReMAD) programming and implementation. In either case, "Y" AORs will be applied to suppress items not included as ISS. AORs will be removed from the file at MSD to trigger standard (e.g. Fleet Logistics Support Improvement Program (FLSIP)) allowance computation for follow-on updates.

Based on the process improvements above, the sole purpose of the PAL process is to eliminate AAPs. PALs will:

- Facilitate configuration management and allowance determination;
- Facilitate shipboard recording and supply management within Operational Maintenance Management System-Next Generation/Readiness Supply(OMMS-NG/R-Supply) (AKA: SNAP);
- Allow collection of demand data;

- Provide the fleet with allowance/parts support data consistent with ISS decisions/outfitting until MSD and a full support APL is available.

The source data for the preparation of PALs is preliminary PTD in the form of Interim Support Items List (ISIL). The ISIL and subsequent PAL contain all the data necessary for the generation of COSAL and OMMS-NG/R-Supply) allowances. See Appendix I for minimum data requirements for loading the WSF for PAL development.

PALs are developed by processing the ISIL through ICAPS by the TSA or ISEA. This data is transferred by the TSA via ICAPS to NAVICP. NAVICP will perform FLIS screening once the data is received. The data is then loaded into the WSF, which creates the PAL. The PAL will be developed within 30 days of delivery of the data. Figure 4-1 provides a flow diagram of the PAL development process.

The process depicted in Figure 4-1 will be followed to develop a PAL.

The following timeframes should be used as a benchmark as to when the PAL process should be started for New Construction Programs, Availability/Overhaul Programs, and approved SCDs:

- New Construction Programs: PAL development should begin at six (6) months before Ship's Estimated Delivery Date (EDD minus 6),
- Availability/Overhaul Programs: PAL development should begin at six (6) months before Start of Availability (SOA minus 6), or
- Approved SCDs, alterations and equipment installations on operational ships: PAL development should start six (6) months before First Installation.

PAL packages will be completed within the following processing times:

- TSAs will process PAL packages within 15 days after receipt.

- NAVICP will process PAL packages within 30 days after receipt from TSA.

Sparing requirements for Onboard Repair Parts (OBRLPs) and follow-on support spares will be determined by using only Navy approved sparing computation models. These spares decisions/OBRLP requirements will be recorded in the NSAF specifically for those ships outfitted in the pre-MSD ISS period.

4.4.4 PAL Development Responsibilities

4.4.4.1 NAVSEA Program Manager (PM)

- a. Ensure contractual requirements for ISIL are invoked in the prime contract. Contractual requirements for ISS PTD are contained in the NAVSEA PMG (see Appendix A). Other ISS contractual requirements, if applicable, are contained in PAFOS Chapter 5 (Interim Supply Support (ISS)).
- b. Ensure data required to develop a PAL is delivered to the TSA in time to provide weapon system support at POC. To facilitate ISS outfitting, provide the ships, items and quantities to be outfitted pre-MSD. Continue to provide updates to the install schedules and changes to ISS outfitting leading up to MSD.
- c. Provide a preliminary maintenance philosophy to the TSA.
- d. Budget for Supply Support requirements.
- e. Provide funding, if required, for IRPs.
- f. Identify a Source of Supply (SOS) and establish via Naval Supply Systems Command (NAVSUP) an appropriate Routing Identifier Code (RIC).
- g. Identify Interim Designated Overhaul Point (DOP) for the system or equipment per NAVSEA Depot Certification Handbook.
- h. Coordinate with NAVICP early in the acquisition process to accelerate MSD.

4.4.4.2 NAVSEA Technical Support Activity (TSA)

- a. Assist the PM in developing the Request for Procurement (RFP) and Statement of Work (SOW).
- b. Provide technical guidance to the prime contractor for the development of the ISIL.
- c. Process the ISIL through ICAPS C/S. Data requirements are specified in Appendix A. The TSA will review,

approve, or disapprove data where the prime contractor provides all technical coding. In cases where the prime contractor does not provide technical coding, the TSA will generate this data. Load "A" and "Y" AORs and quantities to identify ISS OBRP requirements.

- d. Provide updated lists of ships that require ISS as a result of all installation until full MSD is achieved to NSLC to facilitate NSAF update accordingly.
- e. Release completed ICAPS C/S package to NAVICP. Utilize a "P" in the first position of the PCCN, versus the normally used "N", in order to designate the package as a PAL.
- f. Ensure that the ICAPS C/S package is completed in time to support the POC of the weapon system. (Nominally, at least 2 months prior to POC.)
- g. Coordinate with the Supervisor of Shipbuilding, Conversion and Repair (SUPSHIP), Planning Yard, or Configuration Data Manager (CDM) to ensure that the PAL is reflected in the Configuration Data Managers Database-Open Architecture (CDMD-OA) database to support COSAL/OMMS-NG/R-Supply schedules.
- h. Review and validate the completed PAL.

4.4.4.3 Naval Sea Logistics Center

- a. Ensure ICAPS-PC (Standalone and Client/Server reflect all current NAVSEA policy, and all required DPDs are present with accurate validations.
- b. Based on TSA ship installation list, load NSAF with ISS AORs and quantities as required. Subsequently, remove AORs/quantities upon reaching MSD to ensure standard (e.g. FLSIP) allowance computation as required.
- c. Ensure the PAL auto-load process is working correctly, and coordinate with NAVICP to maintain files load for PALs via ICAPS C/S.

4.4.4.4 Naval Inventory Control Point (NAVICP)

- a. Perform FLIS screening on all provisioning packages.
- b. Identify non-standard items of supply on APLs or PALs with a "0" COG NICN.
- c. Coordinate with Naval Sea Logistics Center (NAVSEALOGCEN) to maintain files load for PALs via ICAPS C/S. Review stock status for existing NSNs and initiate buys to support any increased requirements.
- d. Perform ICAPS C/S review with TSA and load the WSF.
- e. Ensure Level C of the WSF is loaded within 30 days of receipt.
- f. Issue the PAL.
- g. Replace PAL data with APL data when received from the TSA upon completion of the formal provisioning process, retaining the same Repairable Identification Code (RIC) number.
- h. Replace 0 COG NICNs with NSNs after material has been redistributed to the supply system.
- i. Perform PAL reviews and coordinate files maintenance with the TSA, as required.

4.4.5 Advance RIC Process

The Advance RIC process shall be implemented for New Construction programs, Overhaul/Availability ships, and first time installation of approved Ship Change Documents (SCDs), Alterations and Engineering Change Proposals (ECPs). The Advance RIC procedure will allow the equipment it represents to be identified with an actual Repairable Identification Code (RIC) in the ship's configuration file as opposed to a pseudo RIC used in the past. This will allow ships to receive identification of piece part requirements via Automated Shore Interface (ASI) for OMMS-NG/R-Supply (AKA:SNAP) ships, and COSAL In Access (CIA) (formerly: Automated Monthly COSAL Maintenance Action Report) updates for non-SNAP ships as the final provisioning process is completed and the APL is generated.

The Advance RIC procedures shall not be utilized until the final equipment/component end item part number configuration is

identified. Advance RICs do not apply to ISS equipment which requires development of a PAL.

Advance RIC requests will be submitted to NAVICP in accordance with the requirements specified below and the Component Identification Data requirements specified in the NAVSEA PMG (see Appendix A). The NSA/SUPSHIP shall complete the data requirements for Component Identification Data (CID). The following additional information will be provided in the Characteristics Data field:

- a. Advance RIC Number Requested By: (Person's Name)
- b. Command or Activity
- c. Date Advance RIC Requested
- d. Scheduled Date When Complete PTD Will Be Provided To TSA
- e. Applicable System/Function (if known)

This reflects the minimum data requirements needed to request an Advance RIC. The specific delivery media will be determined at the PGC). The Advance RIC request data will be sent to NAVICP-M via the TSA. The TSA will submit the data via ICAPS C/S to the appropriate NAVICP code. An Advance RIC number will be assigned within seven (7) days of the request. NAVICP will assign a Logistic Support Status Code (LSSC) of "MD" and ICAPS will notify the TSA of RIC Assignment. The TSA will distribute the Advance RIC number by email to the NSA or the SUPSHIP and Ship Builder. The Ship Builder/Contractor/CDM will update all configuration files and identify the Advance RIC number on all future submittals of provisioning data for that item.

The following information is provided as a guide for the assignment of Advance RICs for each type of program:

- a. New Construction Programs: The Advance RIC procedures shall be used for all equipment without a RIC at 2 months prior to ship delivery. The SPM, TSA, and NAVICP should agree on specific dates in order to achieve program specific needs.
- b. Availability/Overhaul Programs: The Advance RIC procedures will be used for all equipment without a RIC that will not have a PAL developed prior to SOA. The SPM, TSA, and NAVICP should agree on specific dates in order to achieve program specific needs.

- c. Approved SCDs, Alterations and ECPs: To support the ILS Certification Process, the Advance RIC procedures will be used for all equipment without a RIC beginning at 6 months prior to SOA. The SPM, TSA, and NAVICP should agree on specific dates in order to achieve program specific needs.

4.4.6 Commercial-Off-The-Shelf/Non-Developmental Items (COTS/NDI)

Today, more system designs are incorporating COTS/NDI items in an attempt to:

- Reduce total ownership costs,
- Eliminate or reduce government R&D,
- Apply of state-of-the-industry technology to current requirements,
- Reduce technical, cost, schedule and performance risks,
- Access commercial distribution networks,
- Join the larger commercial/public market.

However, the use of COTS/NDI for shipboard applications creates a new set of allowance documentation development and supply support challenges for the provisioner. Appendix H provides guidance to assist the provisioner with making allowance documentation development decisions for COTS/NDI.

4.4.7 Maintenance Assistance Modules (MAMs) Provisioning Process

A Maintenance Assistance Module (MAM) is used during organizational level maintenance to isolate the cause of failure to a single point. If the design or maintenance philosophy of a system/equipment dictates the use of MAMs, the following policy is provided. This policy provides general MAMs provisioning guidance for systems/equipment, as well as two special situations:

- a. Unique situations, and
- b. Brokered/embedded equipment.

4.4.7.1 General MAMs Guidance

The following describes the general process used for identifying MAMs on an equipment/system APL. During provisioning of the equipment/system APL in ICAPS C/S, the TSA will assign an Allowance Note Code (ANC) of "N", and the appropriate Allowance Factor Code (AFC) and AFC Quantity (QTY) for each MAM required for fault isolation. The ANC determines the range of MAMs that will be reflected in the ship's allowance, while the AFC and AFC QTY assigned determine the specific allowance quantity for each MAM.

The identification of MAMs on the equipment/system APL will simplify configuration accounting and ensure the accuracy of the resulting MAM allowances. OMMS-NG/RSupply capabilities to segregate and group MAM allowances have eliminated the need for the purported benefits of separate MAMs APLs; ease of identification and inventory were the historic rationale for separate MAMs APLs. Properly identifying MAMs on the equipment/system APL will accurately establish MAM levels in shipboard allowances.

4.4.7.2 Maintenance Assistance Modules Allowances for "Unique" Situations

On rare occasions, unique situations may occur that will preclude identifying MAMs on the equipment APL. To identify the unique situations requires a fundamental understanding of the MAMs allowance computation process:

- a. If a given NSN is coded as a MAM for different APLs (different equipment), then there is an additive MAMs allowance for the NSN for each application (APL).
- b. However, if a given piece of equipment (a single APL) has a shipboard population of two (or more), the MAMs allowance for that APL is not additive.
- c. The underlying logic is that if there are two (or more) display units on a ship, the technician only needs one set of MAMs to maintain that particular equipment. While if a given NSN is a MAM for two entirely different pieces of equipment (two different systems/APLs), then the NSN should be included in the MAMs set of each piece of equipment.

This MAMs allowance computation logic, in concert with the basic policy of identifying MAMs on the equipment APL, would

result in an inflated MAMs allowance in "unique" situations. For example, suppose there are five consoles in the LM2500 control consoles, each with a unique configuration and an associated APL. There is a single set of MAMs that supports all of the consoles. Certain NSNs that are common to two or more consoles are also MAMs. If one follows the basic policy, the appropriate range and depth of MAMs (documented via the ANC, and AFC and AFC QTY) would be identified on each console APL. This would mean that if a given NSN is a MAM and is installed in three consoles, (APLs 1, 2, and 3), the allowance computation process would allow the MAM for each APL (1, 2, and 3). This would result in a total MAMs allowance quantity of three for the NSN vice the appropriate quantity of one (See Figure 4-3).

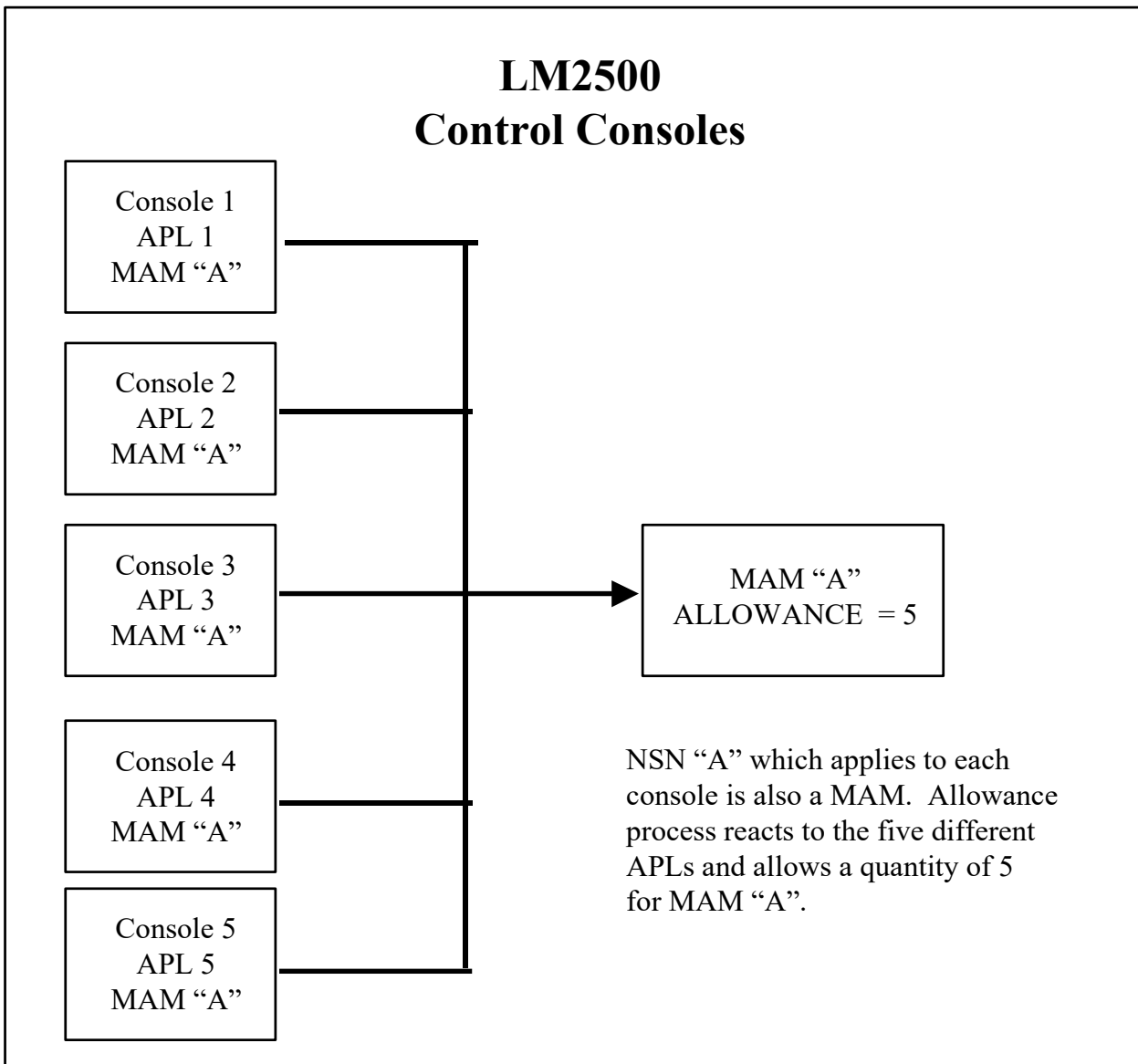


Figure 4-3

A separate MAMs APL will be developed to properly identify the equipment/system's MAMs allowance (See Figure 4-4). To retain the integrity of the storeroom allowance computation, a technical override code of "Z" will be applied to these items by the TSA to preclude artificially inflating the installed part population.

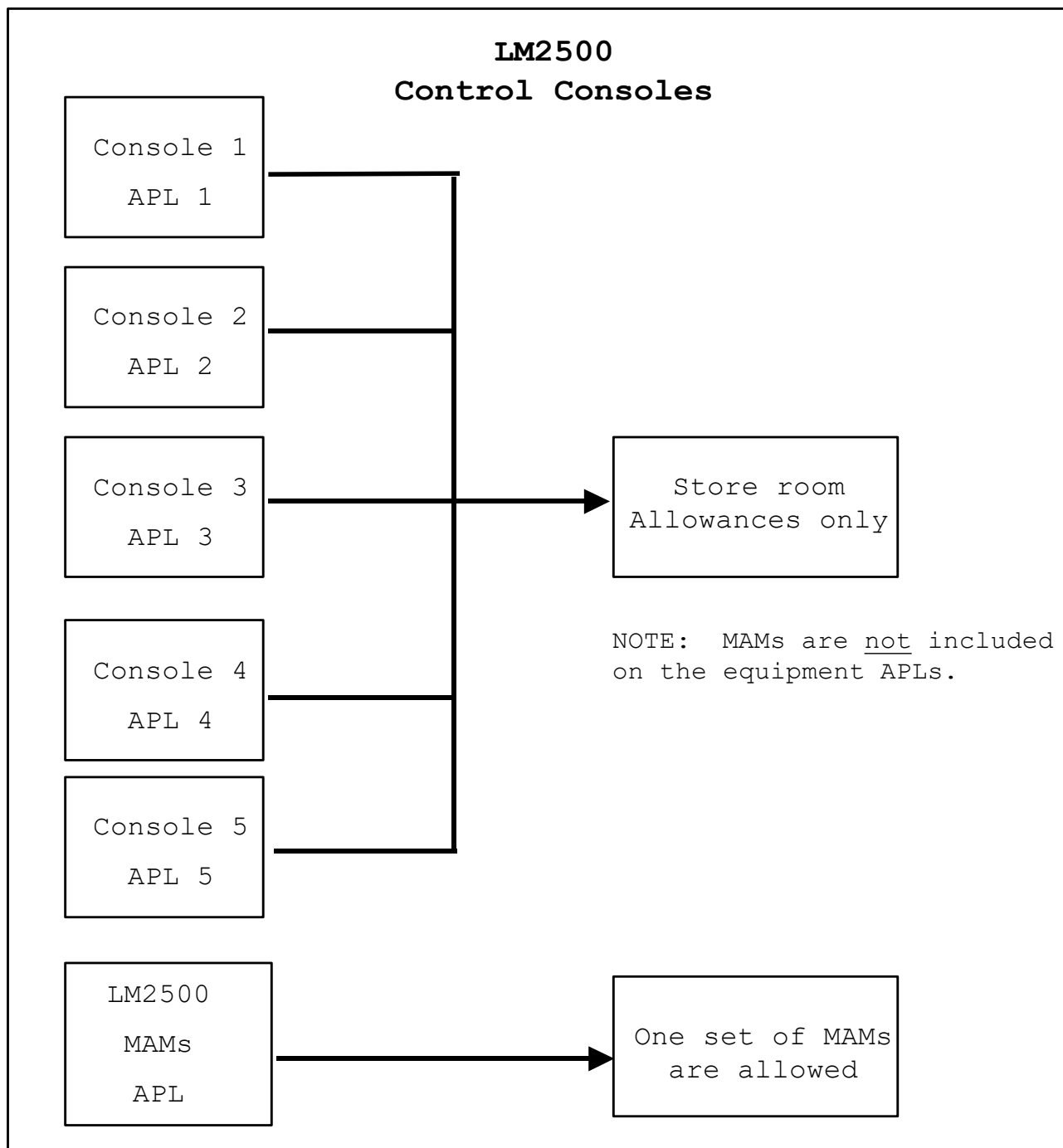


Figure 4-4

4.4.7.3 Brokered/Embedded Equipment MAMs Guidance

Brokered/embedded equipment are centrally procured by a designated acquisition manager and provided to various acquisition managers for use in their systems (referred to as the parent system). A TSA is responsible for provisioning the "Fleet" APLs for the brokered/embedded equipment, while the provisioning of the parent system APLs are normally the responsibility of a different TSA. A "Fleet" APL is defined as the APL developed for the brokered/embedded equipment that is used by the entire "Fleet", as opposed to an application specific APL that is only used for a specific system.

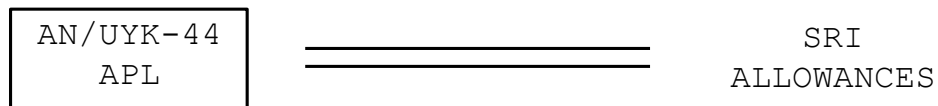
Final responsibility for ensuring that the provisioning and allowance documentation of the parent system, including the brokered/embedded equipment portion, supports the system's maintenance philosophy rests with the Life Cycle Manager (LCM) of the parent system. Accordingly, it is the responsibility of the TSA for the parent system to ensure the appropriate range and depth of MAMs for the brokered/embedded equipment is identified in the allowance documentation.

The brokered/embedded equipment TSA should develop a MAMs "shopping list" APL which is used by the parent equipment TSA to build an "application specific" MAMs APL. This "application specific" MAMs APL will reflect the maintenance philosophy for brokered/embedded equipment as part of the specific parent system. The "application specific" MAMs APL must have a "Z" technical override code assigned to override storeroom item allowance computation. For an example, see Figure 4-5.

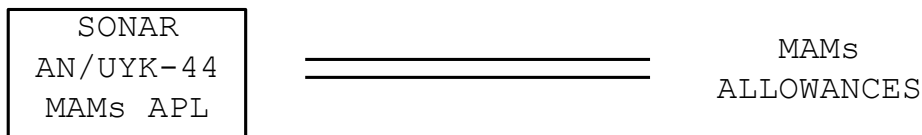
BROKERED EQUIPMENT

EXAMPLE: AN/UYK-44

"FLEET" APL WITH MAMs REMOVED
&
APPLICATION SPECIFIC MAMs APL
(i.e. SONAR)



NOTE: ALLOWANCE NOTE CODE "N" REMOVED



NOTE: ALLOWANCE NOTE CODE "N" AND ALLOWANCE
OVERRIDE OF "Z" LOADED

Figure 4-5

NOTE: In addition to building the "shopping list" APL, the Brokered/embedded equipment TSA will develop and maintain a Fleet APL without MAMs to provide storeroom support for the brokered/embedded equipment.

The parent system LCM is ultimately responsible for ensuring that the allowance documentation of his/her system accurately supports its maintenance philosophy. This responsibility includes any brokered/embedded equipment. The LCM will ensure that an appropriately coded application specific MAMs APL is developed and will plan for the acquisition of the MAMs for ship outfitting. To promote MAM sharing and preclude excessive MAM quantities onboard, the TSAs for the parent systems and/or the Combat Systems Integrator should consider building a single MAMs APL for any co-located systems. For more

details on brokered/embedded equipment MAMs APL processing instructions, see Appendix B.

4.5 STREAMLINING THE PROVISIONING PROCESS

The provisioning process is a complex and involved one. In hopes of streamlining the process and making it more efficient, the entire process was examined as a result of a Total Quality Leadership (TQL) effort beginning in January 1989. The results of that examination were a number of innovations to improve the way provisioning is accomplished in the Navy. Some of these process improvements have been updated based on Acquisition Reform initiatives.

4.5.1 The Provisioning Team

One of the innovations used to improve the provisioning process is the use of a Provisioning Team. A Provisioning Team should be established early in the acquisition process to optimize the provisioning process and exchange information with the Program IPT on various supply support methodologies. At a minimum this team should consist of representatives from the PM's office, the TSA, the NAVICP, and the manufacturer. The team is formed prior to contract award with the purpose of determining the program's specific provisioning requirements based on the supply support methodology chosen. The Provisioning Team will assist the PM in determining the appropriate supply support methodology, and tailoring the SOW, CDRs, and LMI Worksheet to reflect the appropriate PTD requirements. The Provisioning Team also functions to streamline the provisioning process to minimize and/or eliminate the need for ISS. The teaming approach allows the TSA and NAVICP to be involved in decisions made early in the acquisition process which will later affect the overall supply support process.

4.5.2 ICAPS-PC Standalone and ICAPS C/S Definition

ICAPS Standalone and ICAPS C/S were developed by the government for the purpose of automating and streamlining the development and transmittal of provisioning related data. It is available free of charge to contractor personnel as well as government agencies. Contractors are encouraged to take advantage of the opportunity to utilize this software, which would eliminate any concern about data compatibility between the

contractor's development tool and ICAPS. Information on how to obtain the latest version of ICAPS is available on the ICAPS homepage (<https://icaps.nmci.navy.mil>). Two versions of ICAPS are currently available: ICAPS Standalone and ICAPS C/S.

ICAPS Standalone has incorporated the ability to remotely produce formatted outputs that facilitate transmission of data from one provisioning activity to another.

ICAPS C/S is a real-time database that facilitates the on-line preparation of PTD by the Contractor, the on-line review, technical coding, and approval by the TSA, the on-line review and supply coding by the NAVICP and the eventual loading of the WSF.

The major system capabilities include efficient data processing, comprehensive administrative data validations, powerful update capability, on-line report generation, and an extensive on-line help facility. Although use of ICAPS simplifies verification of the data development and submission process, the contractor has the latitude to utilize any system for data development.

The Navy requires PTD to be delivered in a format accepted by ICAPS. The ICAPS software is designed to support and accept data in MIL-STD-1552A and MIL-STD-1388-2A/2B (LSA-036) formats for existing contracts and LMI format for new contracts. The LMI format utilizes LSA-036 file structure.

If a non-ICAPS system is utilized, it must be able to produce a structured formatted text or flat file in accordance with the direction contained in the LMI Worksheet Narrative. For Non-ICAPS Provisioning Submittals (See Appendix K). This is referred to as "ICAPS compatible format" throughout this document.

4.5.3 ICAPS Data Processing Scenarios

The following subparagraphs describe the possible scenarios of processing PTD from ICAPS to the WSF, depending on the each activity's capabilities. Any one of the following scenarios is possible:

4.5.3.1 Concurrent Processing: Contractor/TSA/NAVICP with ICAPS C/S

The Contractor chooses to develop the data directly in ICAPS C/S. As the contractor is developing the data, the TSA and NAVICP can view the project before the Government officially accepts it. This enables the TSA and NAVICP to identify and resolve discrepancies as they occur, and to also begin their data review, technical, and supply coding much earlier in the process. The data is coded and corrected more expediently than with a serial process which was used in the past. After the Contractor, TSA, and NAVICP have completed the data processing, the data is directly loaded to the WSF from ICAPS C/S.

4.5.3.2 Semi Concurrent Processing: Contractor/TSA/NAVICP with ICAPS C/S

The Contractor chooses to develop the data directly in ICAPS C/S, or by using ICAPS Standalone and uploads it to ICAPS C/S upon completion. If the Contractor utilizes a system other than ICAPS, the system must be ICAPS compatible and the data must be loaded into ICAPS Standalone before it can be uploaded into ICAPS C/S. Once the data is resident in ICAPS C/S, the TSA can review the data and technical coding. The data is also accessible for review by the NAVICP. After the TSA has completed the technical coding and the NAVICP has finished reviewing the data, NAVICP performs the supply coding in ICAPS C/S and then loads the WSF.

4.5.3.3 Semi-Concurrent Processing: Contractor with ICAPS Standalone or ICAPS compatible software only,TSA/NAVICP with ICAPS C/S

The Contractor chooses to develop the data directly in ICAPS Standalone and outputs the data to a diskette utilizing the ICAPS (C/S interface file) format. If the Contractor utilizes a system other than ICAPS, the data must be in a format that is ICAPS compatible and the data must be outputted to a diskette. In either case, the diskette is sent to the TSA for loading into his version of ICAPS for review and approval. Upon approval of the data, the TSA uploads the data to ICAPS C/S. Once the approved data is in ICAPS C/S, all other processes remain the same. Although the Contractor is without ICAPS C/S access in this environment, the TSA and NAVICP are able to easily coordinate via the ICAPS C/S.

4.5.4 Concurrent Provisioning

The LMI Performance Specification (MIL-PRF-49506) allows the Contractor to use any database the Contractor may choose to develop the PTD. Concurrent provisioning may be accomplished only if the Contractor chooses to use ICAPS C/S to develop the PTD, or allows the government unlimited access to their database to allow *all* coding to be accomplished by *all* government activities.

Past methods for completing provisioning work involved passing the provisioning data sequentially from one activity to the next. In other words, the manufacturer developed the PTD, submitted it to the TSA, and when the TSA had completed its technical coding, the PTD was sent to the NAVICP for supply coding and APL assignment.

Traditionally the government received PTD in the form of hard-copy drawings and lists. This meant that if the TSA discovered a technical error in the data, the entire PTD package might be returned to the manufacturer for revision or correction. The same thing might also happen if NAVICP discovered a problem with the package later, after the TSA-discovered error had been corrected. The package might be returned to the manufacturer a second time. The result is many lost days of provisioning time.

Concurrent Provisioning eliminates this type of delay. In its simplest form, Concurrent Provisioning refers to parallel rather than sequential provisioning. In other words, rather than passing PTD from manufacturer to TSA to NAVICP, the PTD may be processed by all three activities at nearly the same time. In order for this to happen ICAPS C/S must be used. (For more information on ICAPS Standalone and ICAPS C/S see Section 4.6.2 of this chapter). By using ICAPS C/S, all three activities have access to the PTD information and can be applying their coding at the same time. In addition, ICAPS C/S has the capability to edit certain types of data errors so that some of the simpler causes of PTD rejection and revision can be corrected by the manufacturer rather than waiting for the TSA or NAVICP to discover them. By allowing all three activities - the Contractor, the TSA, and NAVICP - to access the provisioning database at the same time, each providing or verifying the information for which they are responsible, a significant amount of time can be saved in completing the provisioning process.

Contractual documents must contain the correct requirements in order to perform concurrent provisioning. See PMG for

contractual requirements. Making use of ICAPS C/S, providing digital drawings and buying a provisioning database rather than lists are examples of contractual requirements that help implement concurrent provisioning.

4.5.5 Incremental Processing of PTD

Another benefit of the provisioning streamlining concept is incremental processing of PTD. Incremental processing of PTD basically means that other Provisioning Team members can work portions of a PTD package, as they are completed rather than waiting for the total package to be completed. This is particularly useful for large, complex equipment or systems. Instead of waiting until the PTD for the entire system is developed, the manufacturer can submit parts of it as they are completed. To be most effective, the incremental submission should include the items to be maintained at the organizational level first and the intermediate and depot levels later. This allows all the items that will be onboard the ship to be provisioned first since these will be most important to the sailors who will be maintaining the equipment. Additionally, incremental PTD submission should be used on equipment which is design stable. That is, if the equipment design is likely to change, it is not a good idea to process the provisioning information until the physical configuration baseline has been established.

4.5.6 Provisioning Streamlining Benefits

By incorporating the streamlining methods and using ICAPS as described above, the results are more accurate provisioning and reduced provisioning time. Also, these innovative procedures can reduce the need for ISS, which is much more costly than traditional Navy supply support.

4.6 PROVISIONING METHODS

There are three provisioning methods that are normally used to complete the provisioning process. Each has its merits and limitations. There are several factors that must be considered when choosing the provisioning method. The best method for a given equipment or system depends on the IPT structure, the physical location of the PM and the Contractor, the system or equipment's design, size, maintenance concept, and special parts requirements. Whichever method is chosen, the communication and

exchange of information with the IPT(s) cannot be overemphasized. Traditionally, the methods described below have met at a specific location. However, with advances in technology, email, chat rooms, video teleconference, etc can accomplish communication. The following subparagraphs provide a brief description of each of these three provisioning methods.

4.6.1 Resident Provisioning Team Method

In the past the Resident Provisioning Team Method was seldom used for Navy provisioning. However, with Acquisition Reform initiatives and the implementation of IPTs, this may become a more popular provisioning method. This method establishes a Provisioning Team that is permanently assigned at a Contractor's facility. Specialists on a temporary basis can then assist this team if workload demands require additional help or if specialized equipment and material experience is needed.

4.6.2 Conference Team Method

The Conference Team Method establishes a government team made up of members skilled in areas such as SM&R coding, requirements determination, and cataloging. Conferences are normally held at the Contractor's facility. The conference team provisioning method is used most frequently for GFE contracts rather than shipbuilding contracts. However, in the case of some highly complex HM&E equipment, this method could be used for CFE in shipbuilding contracts. The Government Accelerated Provisioning (GAP) is an example of the Conference Team Method.

4.6.3 In-House Provisioning Method

With this method of provisioning, the members of the provisioning team perform provisioning responsibilities at their respective activities. ICAPS data or data submitted in ICAPS format is sequentially passed from contractor to TSA and then to NAVICP, with each activity adding its input. Utilizing ICAPS C/S can complete these functions concurrently, thereby reducing the time required to sequentially process the data.

4.7 PROVISIONING CONFERENCES

Conferences are used during the provisioning process to clarify the contract's provisioning requirements and to discuss

a variety of issues during the course of the provisioning process.

4.7.1 Provisioning Guidance Conference (PGC)

The purpose of the PGC is to bring the government acquisition manager (the SPM for shipbuilding contracts, the PM for GFE contracts) and the Contractor together in order to ensure understanding of the contractual provisioning data requirements. A PGC is usually held 60 to 90 days after Contract Award Date (CAD). The topics discussed at a PGC might include maintenance concepts, provisioning techniques, item identification, design changes, and delivery schedules. The results of the meeting might include the establishment of tasks, provisioning milestones and submission schedules, and firm commitments for optional requirements.

4.7.2 Preparedness Review Conference (PRC)

A PRC is optional because it is usually required only for Contractors who have had no previous experience with the provisioning process. The purpose of this conference is to determine if the Contractor will be prepared for an upcoming Provisioning Conference (PC) (See section 4.8.3). At a PRC, representatives from the TSA, the vendor, and NAVICP will discuss what will be required for an efficient PC.

4.7.3 Provisioning Conference (PC)

The PC gives the Navy and the Contractor personnel the opportunity to meet and discuss the specific requirements and data needed to make the technical and supply decisions that are part of the provisioning process. Some of these provisioning decisions will actually be made during the PC. At a PC the Program Office, the Contractor's technical people, the Provisioning Team (usually comprised of TSA and NAVICP personnel at a minimum) meets to review the drawings and provisioning data. In addition, the acquisition office's logistics representative and ILS manager may also attend. For GFE, the equipment is usually available. As a group they will discuss all the information and assign the proper technical and supply coding at the conference.

4.7.4 General Conference (GC)

A GC may be requested by anyone involved in the provisioning process and may be held at any time during the process as needed. It can be used to discuss problems or to answer questions. It can be used to discuss the progress of the provisioning efforts or to determine if any other conferences, such as a Long Lead Time Item Conference or ISS Items Conference, might be needed.

4.7.5 Long Lead Time Items Conference (LLTIC)

A LLTIC is held in order to determine which parts of the equipment might require an extended time period for manufacturing. These Long Lead Time Items might become problematic if the equipment will be installed onboard a ship before the manufacturer has the time to produce the parts needed to support the equipment. Therefore, a LLTIC should be held to identify these potential problems in time to start the production process so that the parts will be available when the equipment is required to become operational. Long Lead Time Items Data (LLTID) may be a requirement specified on the LMI Worksheet.

4.7.6 Interim Support Item Conference (ISIC)

If interim support is required, an ISIC may be held to determine how Interim Support will be accomplished. The conference is chaired by the ISEA/TSA under the approval of the PM. The results of the meeting are Interim Support Items List (ISIL) and clarified responsibilities. (For more information on t see Chapter 5 (ISS) of the PAFOS manual).

4.8 PROVISIONING DATA PRODUCT (PDP) DELIVERABLES

The Acquisition Manager must direct the equipment or shipbuilding Contractor to furnish PTD. The Acquisition Manager uses the LMI worksheet to specify the required PDPs (i.e., DPDs). These PDPs are required to "produce" specific Data Product Deliverables (DPDs). These were traditionally delivered in the form of hard copy "lists"; however, this is no longer economically feasible. Specific DPDs are described in the following subparagraphs.

4.8.1 Provisioning Parts List (PPL)

The PPL is the most important provisioning data. Its purpose is to portray the physical composition of the equipment. PPL is submitted for configuration worthy equipment that the maintenance planning documentation determined is repairable. This data should contain all parts subject to wear or failure and other items required for maintenance throughout the life cycle of the equipment. A PPL describes the parts in the equipment in some logical order, such as top-down breakdown or circuit symbol number sequence. For each part, the PPL will show information such as the part number, part name, quantity of the part in the equipment, unit price, and other specified data. The PPL is the basic document used in the provisioning process on which to record the various technical decisions. The PPL is used to build APLs.

4.8.2 Long Lead Time Items List (LLTIL)

The LLTIL is used to provide early notice that certain parts require long manufacturing lead-time or are affected by limited production capacity and should be placed on order prior to the normal provisioning process. Therefore, the LLTIL must be delivered in advance of other data.

4.8.3 Interim Support Items List (ISIL)

The ISIL is a "preliminary PPL" and is used to select parts that may be required for interim support if normal provisioning cannot be completed in time to have the material available when the equipment first becomes operational. The ISIL is a best guess of the organizational level items that will be chosen for stocking when the provisioning process is completed. An ISIL may be used to develop a PAL. The PAL quantities are computed using the Navy's approved allowance models.

4.8.4 Tools and Test Equipment List (TTEL)

The TTEL consists of support items (e.g. alignment tools, test sets) that are not an integral part of the end item but are used to inspect, test, calibrate, service, or repair an end item. This is also referred to as Support and Test Equipment Data.

4.8.5 System Configuration Provisioning List (SCPL)

The SCPL establishes family-tree relationships for units of the equipment when the PPL is prepared at the unit level. An

example of such a unit would be a refrigeration system. This system consists of many components which are APL-worthy, for example compressor, motor, coupling, AC controller etc. Also, the SCPL consists of parts used to combine the units into an end item. The data can contain the configuration items for a complete system. This provisioning data can be used to check configuration integrity.

4.8.6 Design Change Notice (DCN)

The DCN provides change pages and changes to PTD based on approved changes to the equipment configuration. The DCN requires basically the same information as required for the PPL. A DCN can be used to provision machine alteration and field change APLs. A DCN is used to provision an end item that has already been received and approved by the government.

4.8.7 Ship Level Provisioning Parts List (SLPPL)

The SLPPL contains shipboard installed units that are not readily associated to specific equipment. It is only used in contracts for construction, modernization, and availabilities of ships or service craft. SLPPL is used to build miscellaneous parts lists known as "89000" series APLs. Typically these items are on a miscellaneous parts list and include end item NSNs with no piece part support. Examples include switches, gages, and windows. If the end item fails, the item is replaced. These APLs ("89000" series) are unique to each ship. There are typically nine "89000" series APLs per ship, based on the Ship Work Breakdown Structure (SWBS):

- 100 Hull Structure
- 200 Propulsion Plant
- 300 Electric Plants
- 400 Command & Structure
- 500 Auxiliary Systems
- 600 Outfitting and Furnishing
- 700 Armaments
- 800 Integration Engineering
- 900 Ship Assembly & Support Services

4.8.8 Engineering Data for Provisioning (EDFP)

Even though submitted as part of the initial support data, EDFP is really used for life-cycle support. It must be adequate to identify, catalogue, and procure each part in the end item

and their relationship to other parts in the equipment. If industry specifications or standards do not completely identify the item, the Contractor may furnish engineering drawings, sketches, photographs, or concise descriptive characteristics.

EDFP may include any or all of the following:

- Government or industry specifications or standards.
- Engineering drawings at least equal to military Specification MIL-DTL-31000.
- Production Drawings and Associated Lists for drawings developed at government expense and Commercial Drawings and Associated Lists for drawings not developed at government expense.
- Commercial catalogs or catalog descriptions.
- Sketches or photographs with brief descriptions of dimensional, material, mechanical, electrical and other descriptive characteristics.

EDFP also includes the appropriate assembly and general arrangement drawings, schematic wiring, and cabling diagrams, etc., necessary to indicate the location and function of support items in the end item. Military Specification MIL-DTL-31000 supersedes DoD-D-1000D. However, some existing contracts still use DoD-D-1000. At a minimum, EDFP must be capable of providing for:

- Technical identification of items for maintenance support considerations.
- Preparation of item identifications for the purpose of assigning NSNs.
- Review for item entry control.
- Standardization.
- Review for potential Interchangeability and Substitutability.
- Item management coding.
- Preparation of allowance lists.
- Initial procurement from the Contractor or original manufacturer.
- Acquisition Method.
- Acquisition Method Suffix Code.

4.9 COMPONENT IDENTIFICATION DATA (CID)

The Contractor is required to use CID to submit identification data for all systems and equipment. CID shall be delivered concurrently with every submittal of Data Product Deliverable. The Contractor shall use CID for submittal of Provisioning Header Data, Statement of Prior Submission (SPS), and Advance RIC requests. See the NAVSEA PMG (Appendix A) for specific data, format and media requirements for CID.

4.9.1 Provisioning Header Data

The Contractor shall provide header data for each PCCN with each provisioning project. The data shall provide the Navy sufficient end item information to identify the system or equipment, the applicable contract, and the planned installations. See Appendix A for specific requirements.

4.9.2 Statement Of Prior Submission (SPS)

An SPS is a certification submitted by the contractor in lieu of PTD whenever PTD that may meet the requirements of the contract has previously been furnished to the government. The Contractor shall use CID to submit an SPS (formerly provided using the NAVSEA Cover Page (NAVSEA Form 4423/3) for CFE or a hard copy letter for GFE). The SPS shall apply to the end item, or to any component thereof, and it shall provide total identification of the system, equipment or component. By submitting an SPS, the contractor certifies all of the following:

- PTD that may satisfy the requirements of the contract has previously been furnished to the Government for the system, equipment or component being procured.
- The required maintenance philosophy is fully supported.
- All replacement parts are 100% identical to those provided by the previously furnished PTD.

If there are maintenance philosophy/part differences, an SPS with Differences shall be submitted as a DCN with supporting EDFP that identifies the differences. The government shall reject an SPS if it does not meet both the data and certification requirements of the contract. If an SPS is rejected, the contractor shall be required to submit a new provisioning package. See Appendix A for specific requirements.

4.9.3 Advance RIC Request Data

The Contractor shall submit the data required to request an Advance RIC in accordance with section 4.5.5 and the contractual Provisioning Requirements.

4.10 NAVSEA PROVISIONING TECHNICAL CODE GUIDANCE

Navy Provisioning Policy requires that the Interactive Computer Aided Provisioning System Client-Server (ICAPS C/S) be used as the sole method for the transmission, processing and tracking of all new and revised provisioning data. The TSA shall be the only activity to submit ICAPS C/S projects to NAVICP-M for processing. This policy was established by the NAVSEA/NAVSUP MAMs Inventory Tools Working Group in response to the issues identified by the Fleet. This policy was endorsed by the Provisioning Center of Excellence (PCOE) which is made up of representatives from all SYSCOMs, ISEAs/TSAs, NAVICP and NAVSUP.

Research into MAMs allowance discrepancies identified broader provisioning concerns such as the lack of a standard method for transmitting, processing and tracking provisioning data. The establishment of Navy Provisioning Policy, which requires ICAPS C/S as the Navy standard method of transmitting, processing and tracking new and revised provisioning data resolves those situations. ICAPS C/S is the only authorized method of updating the key technical DPDs. If any of these DPDs change, the ISEA/TSA will be automatically notified via ICAPS C/S, and the project will not pass to the WSF until the ISEA/TSA approves the change(s). This process ensures that the coding assigned to the key technical DPDs by the ISEAs/TSAs will be loaded to the WSF and made available for allowance computation and OMMS-NG/RSupply update.

4.10.1 Replacement Factor (RF)

RF is used in the provisioning process to facilitate sparing determination. The RF represents an estimate of its annual replacement rate. RF can be described with the following simple equation:

Replacements per Year
Units Installed

It should be pointed out that RF is based on "replacements" not "failures", therefore all item replacements are included regardless of whether they resulted from a failure or routine preventive maintenance.

There are three main types of replacement factors: TRF, BRF, and ARF. When a new item first enters the supply system, it is assigned a Technical Replacement Factor (TRF) based on an engineering estimate of usage. Sources for the TRF are the Median Family Replacement Factor, Mil-Handbook 217, Contractor data, ISEA data, and logistic support data. Appendix C contains additional information on TRFs.

Once the item has been in the supply system long enough to establish a demand pattern, a Best Replacement Factor (BRF) is assigned to "update" the TRF with a more accurate estimate of replacements. A BRF represents the number of times in a year an item is expected to require replacement for all of its applications. For example: a replacement factor of 0.10 indicates that if 100 specific items were operated for one year, 10 of them are expected to be replaced. The BRF for an item is updated annually using actual Fleet usage data.

Another replacement factor used in the provisioning process is the Application Replacement Factor (ARF). The ARF, as its name implies, is the item's replacement rate per year for one specific type of equipment (application) and is based on actual data vice an estimate.

4.10.2 Essentiality Code (EC)

For information regarding EC assignment see Appendix D.

4.10.3 Minimum Replacement Unit (MRU)

Another required piece of information in the provisioning process is Minimum Replacement Unit (MRU). The MRU specifies the number of units of an item required to accomplish a single repair. The MRU can range from one up to the total quantity per component (QPC) of the item installed in the equipment.

Within the provisioning process, MRU is used to determine the multiple to which the item is to be stocked.

4.10.4 Allowance Item Codes (AIC)

The LMI Performance Specification (MIL-PRF-49506) defines the AIC as a code that consists of 2 subfields: Allowance Type and Allowance Code. The Allowance Type subfield consists of 5 categories, of which the Navy uses 3. These are the ANC, the Technical Override Code, and the AFC as explained in the following subparagraphs. For information regarding the specific application of these codes, see Appendix B of MIL-PRF-49506.

4.10.4.1 Allowance Note Code (ANC)

ANC provides specific instructions or information concerning an item in the allowance document.

An example of an ANC would be "N". An ANC "N" is assigned when a Maintenance Assistance Module (MAM) is required to execute the approved maintenance planning documentation that calls for identifying the fault or failed module through progressive and/or selective module substitution. The TSA provisioner would assign an "N" in a specific field in ICAPS with an appropriate quantity.

4.10.4.2 Technical Override Codes (TOC)

TOCs are often referred to as Allowance Overrides, which are used to ensure that a minimum quantity of an item is stocked aboard ship (Code "P" or "S") or ensure that an item is not stocked aboard ship (Code "Z"). See section 4.3 for NAVSEA Provisioning Policy regarding the Provisioning Gatekeeper AOR review, verification and criteria.

4.10.4.3 Allowance Factor Codes (AFC)

AFCs specify the quantities of an item that must be carried as storeroom or operating space items. Normally AFCs are used for equipment supported by a conventional COSAL. The requiring authority will specify the code to be used in this field. See NAVICPINST 4441.170B for a listing of the codes.

4.10.5 Source, Maintenance and Recoverability (SM&R) Coding

During the provisioning process, a series of actions are taken to select, stock-number, and buy parts expected to be needed to perform corrective or preventive maintenance on equipment. The selection of the parts to be stocked is done in accordance with the equipment maintenance planning documentation. The maintenance planning documentation tells the provisioner which parts are to be replaced at the user level and which are to be replaced at an intermediate or depot maintenance activity. The maintenance planning documentation is reflected for each item (part of assembly) listed on equipment APL through the SM&R) codes. For more information on SM&R codes see NAVSUP P-719.

4.10.6 Demilitarization Code

A code that indicates the degree of demilitarization required for an item. Valid codes are A, B, C, D, E, F, G, P and Q.

4.11 SUPPORTABILITY ANALYSIS SUMMARIES

The principal focus of the LMI Performance Specification (MIL-PRF-49506) is on providing a contractual method for acquiring support and support related engineering data. This data is used in-house in existing DoD materiel management automated systems such as those for initial provisioning, cataloging, and item management.

The summaries consist of information required for the PM to conduct logistics planning and analysis, influence program decisions, assess design status, and verify Contractor performance. Content of the summaries should be specified on Supportability Analysis Summaries Worksheets found in MIL-PRF-49506. The individual requirements should be taken into consideration when requesting these types of summaries. These summaries can be delivered as stand-alone reports or as an integral part of other systems engineering documentation. Requirements for these summaries shall be coordinated with data requirements of other program functional elements to minimize redundancies and inconsistencies. Specific content of each summary will be specified in the contract. Examples of supportability analysis reports that may be used to assist with the provisioning process include:

- Maintenance Planning
- Repair Analysis

- Support and Test Equipment
- Supply Support
- Manpower, Personnel, and Training
- Facilities
- Packaging, Handling, Storage, and Transportation
- Post Production Support

Definitions of these supportability analyses are provided in Appendix A of the LMI Performance Specification. The Government and Contractor should hold open dialogues to establish a format which both could use. Contractor format is acceptable when approved by the government.

4.12 ALLOWANCE DOCUMENTS

As discussed in section 4.1 of this chapter, the purpose of provisioning is to determine the spares and repair parts required to support an end item. The provisioning community has developed documents to express the results of this process to the users, i.e., the Fleet. They are developed on an individual equipment/equipage basis and then compiled into a comprehensive database called the OMMS-NG/RSupply and/or a hard copy document called the Coordinated Shipboard Allowance List (COSAL) that establishes ship-wide support for all equipment/equipage. OMMS-NG/RSupply, the COSAL, and related documents are discussed in PAFOS Chapter 6, (Allowance Documentation).

Chief of Naval Operations (CNO) policy requires all equipment be supported at Preliminary Operational Capability (POC). An APL is developed to list repair parts needed to maintain equipment, and an AEL is developed to identify material or equipage needed to perform a particular function aboard ship. APL parts are usually considered storeroom items and AEL parts are considered operating space items. An AEL is typically considered the document that identifies portable equipment and equipage. In addition, there is equipment that, if an APL were developed, would not have repair parts listed. These items are termed non-APL worthy. An APL will not be developed unless APL assignment is the only means available to convey required COSAL service application information. Non-APL worthy equipment are discussed more in Section 4.11 of this chapter.

4.13 APL WORTHINESS GUIDANCE

The following provides general guidance for determining if an item is non-APL worthy. Any item that requires clarification of APL worthiness should be referred to the TSA for final determination. PTD submittal shall be required for all items determined to be APL worthy.

4.13.1 General APL Worthiness Guidance

An item is considered APL worthy if it is identifiable by its own nameplate, can be operated independently or as part of another system, and if either of the following situations apply:

- a. The end item/component is determined by the maintenance philosophy to be repairable through replacement of one or more parts, or
- b. The end item/component has been determined to be non-repairable (consumable) by the maintenance philosophy, but is mission critical or configuration worthy.

If any of the above guidance is not applicable, the item is considered non-APL worthy and will be added as a Line Item (LI) to the Next Higher Assembly (NHA) APL or to the ship's 89000 series APL.

4.13.2 Additional Hull, Mechanical and Electrical (HM&E) Equipment Guidance

For a current listing of HM&E equipment requiring special provisioning and/or allowance preparation procedures, or equipment that will not have supply support provided, see "APL Worthiness Guidance" at <https://icaps.nmci.navy.mil/pcoe/aplworth.html>.

4.13.3 Non-APL Worthy Item Alternatives

Once it has been determined that an item is maintenance significant but non-APL worthy, the Navy must determine what to do with the item. Maintenance significant items require PTD. The NAVSEA PMG (Appendix A) lists specific non-APL worthy items and recommends the type of support to be provided. For items determined to be non-APL worthy but not included in the NAVSEA PMG, the following support methods, in order of precedence, are listed below:

a. Include the item in the "Parent" APL applicable to the equipment in which the item is an installed part. Example: A non-APL worthy transformer or switch installed in a panel or switchboard.

b. Include the item in the system-level APL that lists all the APLs in a particular system. Example: A non-APL worthy power transformer in a ship's control system would be listed as a line item on the Ship's Control System APL.

c. Include the item on an Allowance Equipage List (AEL) if the item falls into the general category of equipage and tools stored in the operating space of a system.

d. Include the item in the 89000 series ship's miscellaneous repair parts APL if alternatives 4.12.3a, 4.12.3b and 4.12.3c are not possible. Non-APL worthy items, which are maintenance significant, are to be included in the appropriate 89000 series APL when:

(1) The item is readily recognizable by description, standard plan or type number, manufacturer part number or system drawing and piece number as a separate entity, and,

(2) No adverse effects will occur to COSAL effectiveness due to the loss of specific service application information. If the system drawing and piece number of the item are included as an alternative part number in Part III Section D of the COSAL, the service application will not be considered lost.

4.14 NAVAL INVENTORY CONTROL POINT (NAVICP) FUNCTIONS AND PROCESSES

The provisioning data is processed in ICAPS C/S where the cataloging/supply portion is loaded by NAVICP. Equipment acquired for use on a ship is assigned to a NAVICP, PICP and an Inventory Manager (IM). The responsibilities of the three roles are as follows:

- The NAVICP provides for total life-cycle supply support for designated systems/equipment regardless of who manages the various spare and repair parts comprising the system/equipment.

- The PICP is tasked to record and support technical decisions using PT to code and enter data into Navy databases in order to catalog items, develop allowance lists, and order retail and wholesale material.
- Inventory Management ICP maintains life-cycle management of specific secondary items of system stock to support replenishment of retail levels. The IM plays a key role in maintaining levels of stock issued from stock points to end-users. The Navy manages less than 30% of the items used by the Navy).

For equipment acquired for use on Navy ships, NAVICP fulfills all three of these roles. Occasionally, NAVSEA or SPAWAR will retain inventory management of the end item; however, NAVICP normally keeps the inventory records but the decisions are made by NAVSEA/SPAWAR.

4.14.1 Provisioning Screening Process - Item Identification

In a given provisioning submission there may be thousands of piece parts. The range of data required for each of the "new" items is extensive. In an effort to prevent duplication of an item already in the supply system, Naval provisioners screen all items against the Defense Logistics Information Service (DLIS) database.

The NAVICP screens DLIS files to determine whether items associated with new equipment are already cataloged and managed in the FSS. This is referred to as the FLIS screening process. DLIS is responsible for cataloging items of supply and establishing and maintaining NSNs. DLIS accomplishes this by building what is known as the Total Item Record (TIR) file. DLIS maintains the TIR file for all stock numbers used within the FSS. The file contains cross-references between the Commercial and Government Entity Code (CAGE), manufacturer's part numbers, and NSNs. A CAGE is a 5 digit alphanumeric code that identifies a manufacturer or government agency. When existing NSNs are identified, normal cataloging and related item entry control operations can be eliminated or simplified. NAVICP is responsible for final NSN selection for each item.

The results of the screening process will be incorporated into the PTD. As part of ICAPS C/S, a program is executed which automatically generates requests for FLIS/Uniform Inventory Control Point (UICP) screening. Subsequently, ICAPS C/S

intercepts the FLIS screening results and automatically applies information from this file to the corresponding items of the ships provisioning database. NAVICP is responsible for final determination of which NSN will be used to support an item. If the item is not in the DOD inventory system, a decision is made to catalog the item into the system and assign a corresponding new NSN. Screening can be performed by the TSA or NAVICP if an item is thought to be already in the system. Although screening will not be invoked in contracts, some vendors or shipbuilders may routinely screen FLIS to save themselves time and money in being required to only provide limited PTD (i.e., Statement of Prior Submission) if a match to an existing NSN is found.

As part of the cataloging process, the FSS assigns stock numbers based on the type of information known about the item. This process is known as item identification. FLIS uses two basic methods of item identification: the descriptive method and the reference method. The descriptive method is a process of identifying a supply item by its physical and/or performance characteristics along with the applicable manufacturer's code and part number identifying the item of production. However, the reference method of identification is based solely on a reference to the appropriate manufacturer's part number. Full descriptive data about an item (e.g. what it is made of, its dimensions, tolerances, specifications, etc.) is preferred over having only reference data (manufacturer's part number and the manufacturer's CAGE code). To describe the range of information available about an item of supply, FLIS has developed a range of stock number types. The types of stock numbers are listed below.

Type 1	Full Descriptive
Type K	Full Descriptive - Reference
Type L	Full Descriptive - Reference - Descriptive
Type 2	Reference
Type 4	Partial Descriptive
Type M	Partial Descriptive Reference
Type N	Partial Descriptive Reference - Descriptive

For more detailed information, see DOD 4100.38-M.

4.14.2 Spares Computation

Once it has been determined that an item will be organically supported, the item must be identified, cataloged, and purchased so that when the first equipment needs to be

installed or needs a repair part, the part will be available. Whether the part was already in the FSS or newly provisioned, the new and additional number of parts should be taken into account for the increased future demands.

If the part is Navy unique, a Planned Program Requirement (PPR) is entered into the NAVICP files. PPRs are documents placed in the NAVICP files to load requirements for outfitting material into the system, protect reserve system stock from being issued, and load stock into the system for ship overhauls. PPRs are entered by fiscal year for procurement in preparation for the future installations. A PPR is a record that reflects a future stock need or stock level enhancement. It reflects a future, non-recurring support requirement not predicted based on past demand.

If the part is not Navy unique, a Supply Support Request (SSR) is sent to Defense Logistics Agency (DLA). The SSR identifies to DLA that the Navy has a need for an NSN if one is not assigned or an increased demand if an NSN does exist for the part.

For Navy managed items, a Supply Demand Review (SDR) of assets and requirements is performed every two weeks to determine if a supply action is required. The PPRs entered for that buying period will be considered as an additional requirement. This review is computerized to consider all assets and requirements entered in the system.

DODINST 4140.42 sets the policy for wholesale level Initial System Stock. Its objective is to establish and maintain an inventory system that stocks repair parts in advance while minimizing the probability of over-procurement. This over-procurement could result when stock buys must be determined without any demand data. There is a restriction on the number of installations that can be considered when establishing initial stock levels. This restriction is called Time Weighted Average Month's Program (TWAMP). This concept is based on the actual operational time for each installation becoming active in the time period to be considered. The objective is to have the material on the shelf 90 days before each installation becomes effective. See Figure 4-2.

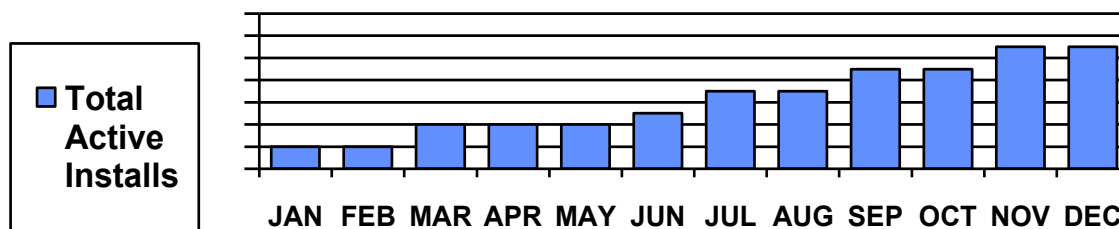


Figure 4-2

For demand-based items, the Navy Variable Threshold Model ranks each item. If the cost is higher, the ranking will be lower. Likewise, if the demand is higher during lead-time, the ranking will be higher. The model starts with the highest ranked stockage candidate, computes the amount to buy, and subtracts the value of the buy from the budget. If sufficient funds are available, it repeats the cycle for the highest ranked remaining stockage candidate.

An item manager can buy a minimal amount of stock for an item even if the demand is low or zero. If the item is an essential component of a piece of equipment, stocking at least one MRU is allowed. These include Numeric Stockage Objective (NSO) items that have a very low demand forecasted and insurance items that have no demand forecasted.

During provisioning, engineering estimates are made to assign an initial TRF for new items of supply. After the equipment has been in operation, actual demand observations are collected and smoothed into the BRF.

4.15 WEAPON SYSTEMS FILE (WSF)

The WSF serves as a repository for information provided during the provisioning process. Equipment configuration, inventory management, maintenance significant parts, and technical coding are examples of information provided by the provisioning process. Equipment-to-part data is listed in the WSF Level C. Types of equipment include Hull Mechanical and Electrical (HM&E), Electronics, and Ordnance. Technical coding for example, SM&R, Part MEC, AICs and MRU - for piece parts is recorded in WSF Level C. Inventory management information is contained in the Master Data File (MDF), Program Support Interest (PSI) file, and the TRF. Inventory control records for Navy Managed Items are contained in the MDF. Inventory control records provide asset information and management data for

material managed by the Navy. The PSI file provides only descriptive type information and application data for material under the cognizance of other than Navy inventory managers. The TRF contains information about items that have been canceled.

4.15.1 Master Data File

The Master Data File is an on-line file containing the inventory record for all applicable spares and repair parts managed by NAVICP, NAVSEA, and SPAWAR. It also contains the technical and management items established and maintained by the provisioning/cataloging process.

- a. Reference number data is used to record all manufacturer's CAGE and Reference Numbers that apply to the item. Data is initially established by provisioning.
- b. Application data reflects the maintenance concept for the item in the equipment identified by the APL Number that controls the trailer entry. Technical Codes such as SM&R, Allowance Item Code, Quantity per End Item and Part MEC are recorded against the application trailer. This data is established and maintained by the provisioning process.
- c. The repair data is present for each depot level repairable and contains repair information such as Designated Rework Point (DRP), carcass return forecasts/observations, and survival data. It is initially established by the provisioning process and subsequently maintained by repair management operations.
- d. The stock status data are inventory trailers that record item stock status (assets and liabilities). System and activity totals of condition and purpose code "A" material are recorded. Those other than "A" are maintained in a file by the stock points. These trailers are fundamental to the inventory process but are initially established when provisioning buys are recorded in the files.

4.15.2 Program Support Interest File (PSIF)

The PSIF is an on-line file containing item records for those items that the Navy is not the item manager. These items commonly have multi-service applications and are managed by a Defense Logistics Agency (DLA).

4.15.3 Technical Reference File (TRF)

The TRF is an on-line file containing records for those MDF items having no replacement, on which interest has been withdrawn, and those non-stock numbered items considered vital for conduct of ICP operations. These items are local technical reference items that are known as Permanent Navy Item Control Numbers (P-NICNs). There are two kinds of TRF items: canceled/deleted NSNs and local technical reference items. When an ICP manager deletes an item and the item is no longer managed, the cataloging process will cause the item to be moved from the MDF or the PSI to the TRF.

4.15.4 Master Allowance Part List (MAPL)

The MAPL file is a file containing "top-down breakdown" of all electronic equipment maintenance parts in Reference Symbol/Circuit Symbol sequence. Section "B" of the electronic APLs is built using this data file. Since a repair part in electronic equipment can be used in multiple assemblies, it may have various install and removal codes based on the reparability of each assembly in which it is installed. Section "B" will show the SM&R code for all appearances of the part, while section "A" shows only the lowest removal code.

DIRECTIVES AND INSTRUCTIONS

1. The following outside directives and instructions, although not specifically mentioned in the manual, should be made available for procedural guidance:

(a) MIL-PRF-49506, "Logistics Management Information", 11 November 96

(b) MIL-DTL-31000C, General Specifications for Technical Data Packages, 19 July 2004

(c) MIL-HDBK 217F, Military Handbook: "Reliability Prediction of Electronic Equipment", 2 December 91

(d) NAVICP Instruction 4441.170B, "COSAL Use and Maintenance Manual", 19 December 2007

(e) NAVSUPINST 4423.29, "Navy Uniform Source, Maintenance and Recoverability (SM&R) Codes, 28 June 1999

APPENDICES

Appendix A	NAVSEA Program Manager Guide
Appendix B	Brokered/Embedded Equipment MAMs APL Processing Instructions
Appendix C	Technical Replacement Factors
Appendix D	Guidance for Assignment of Essentiality Codes (ECs)
Appendix E	Reference Designation, Quantity Per Assembly, and Quantity Per End Item
Appendix F	Indenture Coding
Appendix G	Contractor Furnished Equipment (CFE) Allowance Parts List (APL) Worthiness Guidance
Appendix H	Commercial-Off-The-Shelf/Non-Developmental Item (COTS/N`NDI) Allowance Documentation Guidance
Appendix I	Preliminary Allowance List DPDs
Appendix J	Provisioned Item Orders (PIOs) and Guidance for Completion of Standard Form 26, Award Contract
Appendix K	LMI Worksheet Narrative For Non-ICAPS Provisioning Submittals

APPENDIX B

BROKERED/EMBEDDED EQUIPMENT MAMs APL PROCESSING INSTRUCTIONS

The following are the basic steps for developing the brokered/embedded equipment APL (SRI only) and the application unique tailored MAMs APL. The following figure depicts the provisioning actions required. The configuration actions that are also required are also identified. Note: Although the provisioning actions are a joint effort by the TSA and NAVICP, the TSA is the technical authority on these provisioning actions.

A. Provisioning Actions:

1. Develop APL (**APL B**) for the brokered/embedded equipment that reflects SRI allowances only. *(Responsibility of TSA and NAVICP PM for the brokered/embedded equipment).*

a. Identify the current APL (**APL A**) being used to document both SRI and MAM allowances for the brokered/embedded equipment.

b. Using this APL as a baseline, develop a new APL (**APL B**) for the brokered/embedded equipment with all Allowance Note Code "N"s removed.

2. Develop "Shopping List" MAM PCCN (**PCCN X**) for the brokered/embedded equipment. *(Responsibility of TSA and NAVICP PM for the brokered/embedded equipment).*

a. Transfer current APL (**APL A**) being used to document both SRI and MAM allowances for the brokered/embedded equipment from the Weapons System File (WSF) to ICAPS C/S as **PCCN X**.

b. Modify **PCCN X** to reflect only MAMs applicable to the brokered/embedded equipment for all applications.

Note: PCCN X does not have to be an actual PCCN assigned by NAVICP.

Use the following recommended PCCNs in ICAPS C/S for development of the "Shopping List" MAM PCCN.

Brokered Equipment
AN/UYK-44

PCCN
UYK44M

AN/UYH-3
AN/UYK-7

UYH3MA
UYK7MA

3. Develop "Application Unique" APL (**APL C**) that reflects MAM Allowances for the brokered/embedded equipment.

(Responsibility of TSA and NAVICP PM for system that the brokered/embedded equipment is used on).

- a. Obtain a new PCCN (**PCCN Y**) from NAVICP by following standard procedures for use in the development of the tailored MAMs APL.
- b. Duplicate **PCCN X** developed in step 2 above (all MAMs applicable to the brokered/embedded equipment) to the new PCCN (**PCCN Y**).
- c. Using **PCCN Y**, delete the unnecessary MAMs to reflect the unique maintenance planning documentation and configuration of your equipment/system. This will develop the application unique MAM PCCN.
- d. Process the new **PCCN Y** using regular ICAPS C/S provisioning procedures. Upon completion of provisioning by NAVICP in ICAPS C/S, the application specific MAM APL (**APL C**) will be developed.

B. Configuration Actions:

(Responsibility of LCM/ISEA for system that the brokered/embedded equipment is used on).

1. Submit configuration changes to the appropriate Configuration Data Manager to update the ships, configuration and allowances for your system.

- a. Delete **APL A** with SRI and MAM allowances for your application.
- b. Add **APL B** with SRI allowances.
- c. Add "Application Unique" **APL C** with MAM allowances.

MAMs APL PROCESSING INSTRUCTIONS AN/UYK-44 EXAMPLE

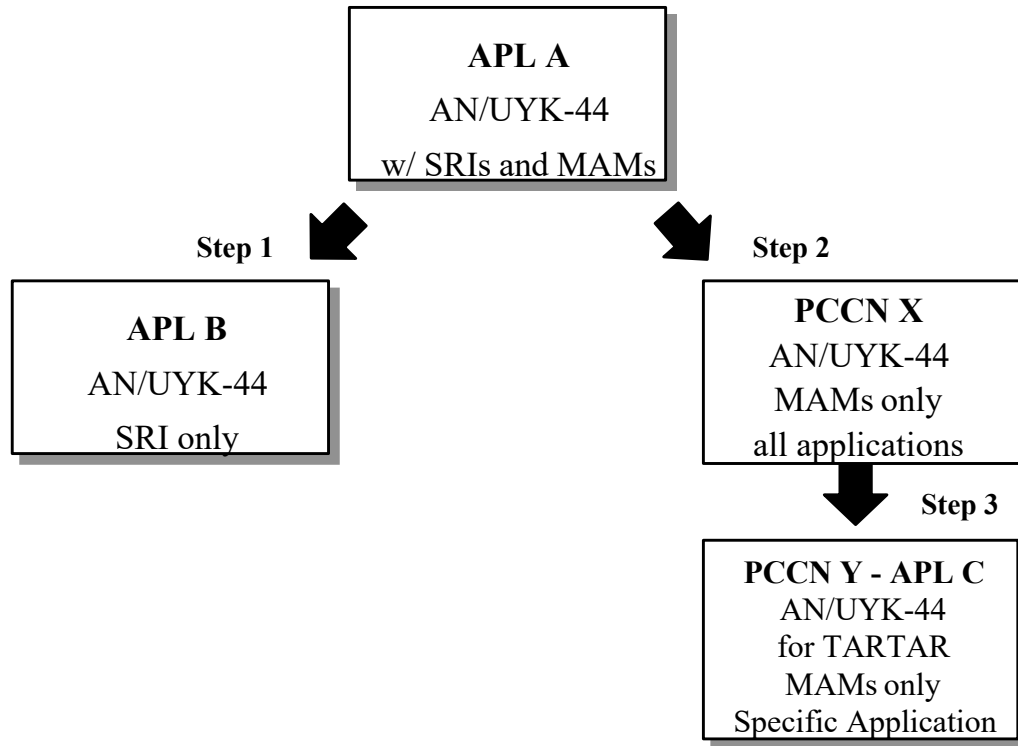


Figure B-1

APPENDIX C

Technical Replacement Factor (TRF)

During the provisioning process for a new system/equipment, each part within the system/equipment subject to replacement that was not identified to a NSN during screening shall be assigned a TRF by the contractor. The TRF is an engineering estimate derived from several sources, depending upon the characteristics of the item (electrical, mechanical, and electronic). The TRF is used in the computation of stocking levels until the item has been in the supply system long enough to establish a demand or usage pattern. When demand data are applied, the TRF is updated.

1. Relationship of TRF to Failure Rate. Failure rate, as commonly used in discussing reliability or failure prediction of equipment and their repair parts, is the ratio of the number of part failures divided by the population of the part and the time period over which failures were observed. Failure rates are commonly expressed in terms of the number of failures per million hours of operation, although conversion can be made to any time base convenient for discussion.

The similarities between TRF and failure rate are readily apparent. They both represent a ratio of the number of occurrences of an event (failure or usage) to the population of the item in service during the time the event occurred. They both are used to predict the number of events expected to occur during some future time period for some known population in service during this future time period. They both are subject to bias due to faulty classification (e.g., an item was replaced even though it had not failed).

The TRF assigned to an item is not only a function of failure, but is also a function of maintenance philosophy, since it is the maintenance philosophy which determines what is to be replaced (demanded).

2. TRF of Zero. There is a rationale for an item to have a TRF of zero. For example;

- It is never demanded, because it never fails.
- It is never demanded because when it fails it is not replaced since the individual parts within, which have caused it to fail, are replaced (i.e., the item is repaired).

In each of the above, the single condition that causes an item to have a TRF of zero is that it is never demanded. There is but one reason for an item to have a zero failure rate--it never fails.

3. Example of TRF Calculation. TRF is calculated by applying the appropriate data to the ratio from the testing to the ratio of item replacement times the hours per year divided by item population for the test times the hours of the test. This is represented by the following equation:

$$\frac{\text{Replacements} \times \text{Operating Hrs/Year}}{\text{Test Population} \times \text{Test Hrs}}$$

The TRF is an eight position numeric entry in Block C-34 (MRRI Block) of the LMI Provisioning Data Product requirements format (See LMI Worksheet and its narrative). The decimal point is assumed to fall between the fourth and fifth positions. The procedures for calculating the TRF of a table lamp are presented in this section. The lamp essentiality consists of 4 parts:

- The light bulb - a consumable assembly
- The combined socket and switch - a consumable assembly
- The electric cord - a consumable item
- The plug - a consumable item.

The assumption is made that the lamp is operated for 1,000 hours a year, or a little less than 3 hours a day, and that the functional parts of the lamp listed above have the following Mean Time Between Failures (MTBFs) and failure rates:

<u>Item</u>	<u>MTBF</u>	<u>Failure Rate/Year</u>
Light Bulb	750 HRS	1.333
Socket Switch	10,000 HRS	0.100
Electric Cord	15,000 HRS	0.066
Plug	10,000 HRS	0.100

By summing the failure rates of the parts of the lamp, the failure rate of the lamp itself can be derived. Doing this, it is found that the lamp will fail 1.599 times per year, largely due to the light bulb failing 1.333 times per year, but the

other parts will make some contribution to the failure rate of the lamp. The table above does indicate, however, that if the lamp is owned for a long period of time, say 10 or more years, failure of the socket/switch cord or plug is to be expected. Note at this point that even though the failure rates of the parts of the lamp have been determined, the TRF of the parts or the lamp still cannot be determined. To do this, the maintenance philosophy for the lamp needs to be known. In this simplified case, the number of different maintenance philosophies available is few: the lamp may either be repaired when it fails, replaced when it fails, or a combination of the two. That is, the lamp might be repaired when it fails if the light bulb is the failed part, and replaced when any of the other parts have failed. Note that the TRF to be assigned to the lamp and the parts is a function of which of the above is chosen. If the lamp is replaced any time it fails, the lamp is the replaced (demanded) part; therefore, it has a TRF, but none of the parts do. If replacing the failed parts repairs the lamp, each of these has a TRF; the lamp does not. If the light bulb is replaced when it burns out, but the whole lamp is replaced when anything else fails, the lamp and the light bulb have a TRF, but the other parts do not. The maintenance philosophies and the resultant variable TRF can be shown in a table thus:

<u>Item</u>	<u>Failure Rate Per Year</u>	<u>Replace Failed Part</u>	<u>Replace Lamp</u>	<u>Replace Failed Bulb, Otherwise Replace Lamp</u>
Lamp	1.599	TRF = 0	TRF = 1.599	TRF = 0.266
Bulb	1.333	TRF = 1.333	TRF = 0	TRF = 1.333
Socket/Switch	0.100	TRF = 0.100	TRF = 0	TRF = 0
Cord	0.066	TRF = 0.066	TRF = 0	TRF = 0
Plug	0.100	TRF = 0.100	TRF = 0	TRF = 0

Using the simplified example above, some parallels can be drawn between this example and the maintenance philosophies experienced in supporting shipboard equipment.

The first maintenance philosophy represents the "traditional" way a majority of equipment is supported today (i.e., repair in place using piece parts throughout the life of the equipment, with replacement of the end item only in the event of catastrophic failure or damage beyond repair).

The second philosophy represents the case of modular replacement with no repair at the organizational level. In the case of Navy

equipment, the module, or in our example the lamp might be sent to a depot for repair and returned to the owner or to stock.

The third philosophy represents limited organizational maintenance with more difficult and time-consuming repair deferred to a higher level.

The sample serves to illustrate that assignment of a TRF requires knowledge of failure rates for the parts concerned. TRF is also a function of the maintenance philosophy to be applied. That is, the determination must be made whether the item will be replaced (demanded) upon failure, for if an item will not be replaced (demanded) upon failure, its TRF must be zero. Since $TRF = \text{demand} / \text{population}$, if demand is zero, TRF is also zero.

4. TRF Assigned to Consumables. TRF for low cost, common design consumables (resistors, capacitors, etc.) shall be taken from the Generic Item Name Technical Replacement Factor Guide. (Provided as Government Furnished Information [GFI]). This data reflects observed supply demand for these items, including false replacements, requisitions for stores, tool boxes, losses, etc., in addition to actual failures. For high cost, unique design consumables peculiar to the end item (special purpose tools, power supplies, potted or encapsulated assemblies), use the following sources in descending order of preference:

- a. Actual failure data from the manufacturer.
- b. MIL-HANDBOOK-217 Reliability Prediction converted to TRF by multiplying failures per hour by yearly component operating hours, taking duty cycles and stress factors into consideration.
- c. Observed data for similar items.

5. Repairable Item TRF. TRF for repairable items are first assigned a raw TRF as described in paragraph 4 above. The raw TRF is then derated by a derating factor described below.

a. Items Totally Repairable at the Organizational Level. Obtain the appropriate TRF as described in paragraph 4 and then apply a derating factor from .10 to .99 depending upon the ease of repair, cost of the item and availability of all components of the assembly at the organizational level. The resulting replacement factor will be the number of items per application

per year that fail, are not repaired at the organizational level, and must be requisitioned from the storeroom.

b. Items Installed by the Intermediate Level and Totally Repairable at the Intermediate Level. Obtain the appropriate TRF as described in paragraph 4 and then apply a derating factor from 10 to .99 depending upon the ease of repair, cost of the item and availability of all components of the assembly at the intermediate level. The resulting replacement factor will be the number of items per application per year that fail, are not repaired at the intermediate level, and must be requisitioned from the storeroom.

c. Items Partially Repairable at the Organizational Level and Totally Repairable at the Intermediate Level. Obtain the appropriate TRF as described in paragraph 4. A derating factor from .10 to .99 will be assigned depending on the ease of repair, cost of item, and availability of all components of the assembly at the organizational level. The resulting replacement factor will be the number of items per application per year which are neither repaired at the organizational level nor the intermediate level, and which must be replaced from system stocks.

d. Items Not Repairable at the Organizational or Intermediate Level and Partially or Completely Repairable at the Depot Level. Enter the appropriate TRF as described in paragraph 4 to the organizational level. A derating factor of .99 will be assigned. The resulting factor indicates negligible demand on system stock.

APPENDIX D

Guidance for Assignment Of Part To Component ECs

The Military Essentiality Code (MEC) indicates the degree to which unavailability of a replacement for an installed item when needed to perform corrective maintenance affects the ability of the end item to perform its primary function in the intended manner. An end item is a final combination of end products, component parts, and/or materials that is ready for its intended use (e.g., radar set, fire control system, electrical generator). The need to perform corrective maintenance is normally the result of failure of an item and so essentiality is commonly evaluated in the context of item failure, but it must be remembered that some parts may be needed for replacement owing to their use when replacing other failed parts (e.g., gaskets).

I. CODE 1

A. LMI Data Product Dictionary #280 Definition: Failure of this item will render the end item inoperable.

B. Guidance on Assignment of:

1. Failure of this item in its normal failure modes will result in total and catastrophic failure of the end item or a critical function of the end item.

2. This item is a part which normally is not considered to fail but is required to be installed, along with an item whose failure will result in total and catastrophic failure of the end item (e.g., gaskets, seals; etc.).

3. This item monitors a critical function and a malfunction will disenable an operator's capability to recognize a catastrophic failure.

II. CODE 3

A. LMI Data Product Dictionary #280 Definition: Failure of this part will not render the end item inoperable.

B. Guidance on Assignment of:

1. Failure of this item in its normal failure modes will result in at most minor degradation of the end item.

III. CODE 5

A. LMI Data Product Dictionary #280 Definition: Item does not qualify for assignment of Code 1 but is needed for personnel safety.

B. Guidance on Assignment of:

1. The Navy states that for MEC Code 5, the item may or may not qualify for assignment of Code 1; however, failure without immediate replacement or lack of this item will directly and immediately infringe on the safety of personnel operating or maintaining the equipment.
2. If an item qualifies for MEC 5, it should be assigned MEC 5 regardless of what other MEC it also qualifies for.

IV. CODE 7

A. LMI Data Product Dictionary #280 Definition: Item does not qualify for the assignment of Code 1 but is needed to prevent impairment or the temporary reduction of operational effectiveness of the end item.

B. Guidance on Assignment of:

1. Failure of this item in any of its normal failure modes will not result in total and catastrophic failure of the end item but rather will result in only partial degradation of the end item allowing continued operation within acceptable performance ranges. Items should be classified as MEC 7 if their normal failure modes are gradual deterioration or wear and such gradual deterioration or wear is noticeable or detectable prior to its reaching maximum limits. Items should also be classified as MEC 7 if redundancy provides for continued operation after failure of one unit of an item but at reduced capacity or capability. If redundancy provides for continued operation after failure of one unit of an item at normal capacity or capability, assignment of MEC 3 is appropriate.

2. This assignment applies to all built-in test circuitry that is critical to the monitoring or fault isolation of the end item. The exception applies to those components that monitor critical functions in which a failure will hide a critical failure.

APPENDIX E

Reference Designation, Quantity per Assembly and Quantity per End Item

The purpose of the Reference Designation Example is to illustrate the relationships between the following DPDs:

- Reference Designation
- Quantity per Assembly (QTY/ASSY)
- Quantity per End Item (QTY/EI)

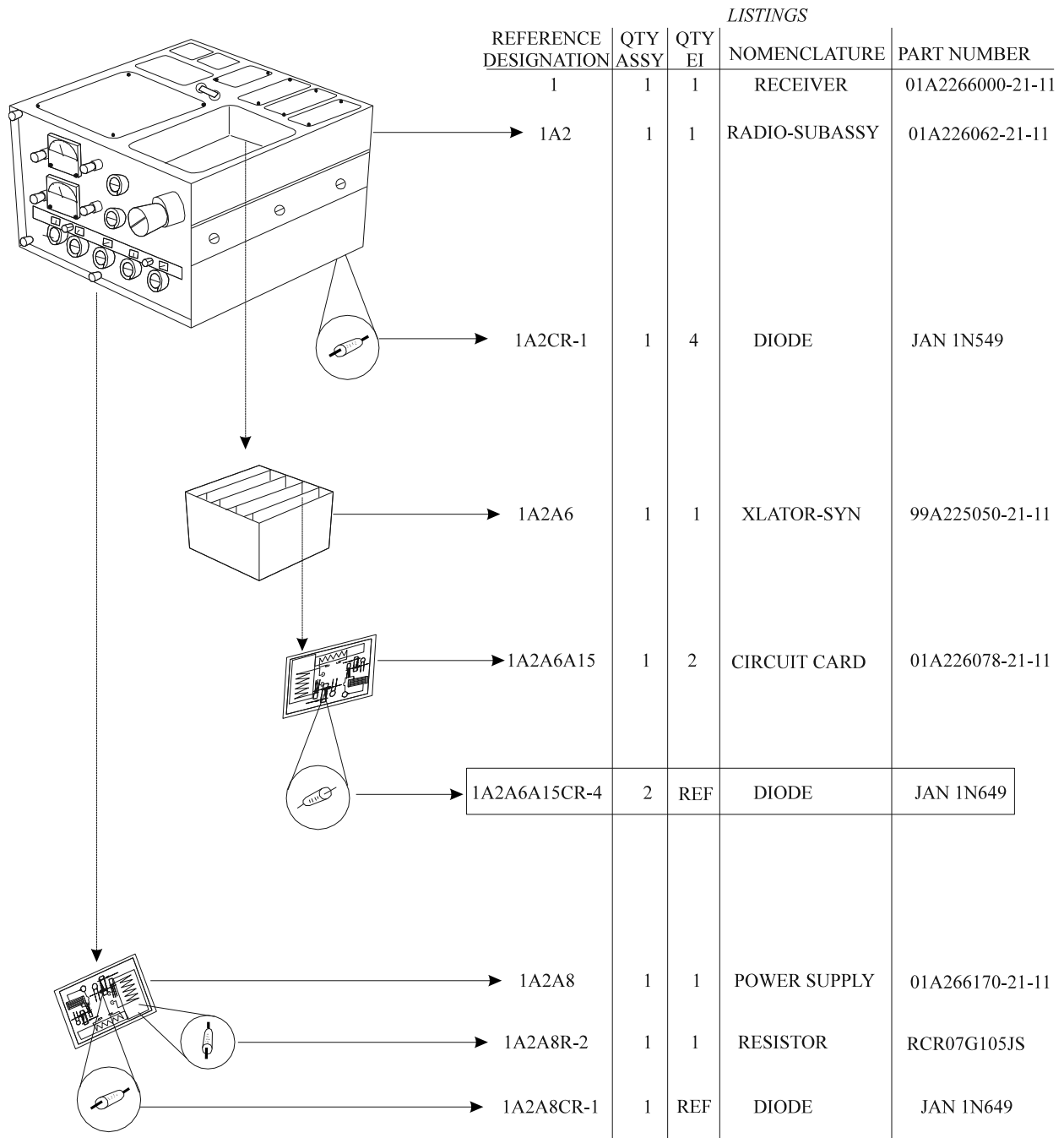
REFERENCE DESIGNATION STRUCTURE:

A reference designation provides configuration information linking a component to a location within the equipment. The preferred reference designation structure is the standard ANSI Y32.16 electronics format (i.e., 1A2C-5). Other acceptable formats are the technical manual figure and index number (i.e., FIG-12 ITEM-38) or the engineering drawing and item number (i.e., DRAWING 39847-4 ITEM 25). The TSA can provide additional guidance regarding acceptable reference designation formats. The receiver appearing on the next page illustrates the relationship of the equipment (e.g., the receiver) to some of its component parts. The receiver and its subordinate components are all identified by a unique reference designation. Each additional level of indenture or breakdown adds additional characters to the Reference Designation, moving from the receiver (Reference Designation "1") to the diode (Reference Designation "1A2A6A15CR-4"). The following "family tree" for the diode describes these relationships:

<u>LINE</u> <u>ITEM</u>	<u>REFERENCE</u> <u>DESIGNATION</u>	<u>QTY</u> <u>ASSY</u>	<u>QTY</u> <u>EI</u>	<u>PART</u> <u>NUMBER</u>
RECEIVER	1	1	1	01A2266000-21-11
RADIO-SUBASSY	1A2	1	1	01A2266062-21-11
DIODE	1A2CR-1	1	4	JAN 1N649
XLATOR-SYN	1A2A6	1	1	99A226060-21-11
CIRCUIT CARD	1A2A6A15	1	2	01A226078-21-11
DIODE	1A2A6A15CR-4	2	REF	JAN 1N649

(See Reference Designation Example on page F-2)

REFERENCE DESIGNATION EXAMPLE



QTY/ASSY AND QTY/EI RELATIONSHIPS:

The sum of all QTY/ASSY values for a given part in the equipment must equal the QTY/EI of the part. This may lead to a computational problem when an assembly is used several times in an equipment but its component parts are listed only once at the first appearance of the assembly.

To resolve the problem, the QTY/ASSY of each component is adjusted by multiplying the original QTY/ASSY by the QTY/EI of the assembly. In the "receiver" example, the original QTY/ASSY of the 1A2A6A15CR-4 diode (i.e., "1") is multiplied by the QTY/EI of the 1A2A6A15 assembly (i.e., "2") and the resulting QTY/ASSY for the diode is "2".

An automated summation of the QTY/ASSY values for the diode, part number JAN IN649, now results in a correct QTY/EI value of "4".

REFERENCE DESIGNATION, QTY/ASSY AND QTY/EI RULES:

The following "rules" will help ensure that proper Reference Designations, Quantity per Assembly and Quantity per End Item are provided in Provisioning Technical Documentation:

- Dashes are required in the piece part field. This dash separates the alpha and numeric portion of the piece part identification.
- Each Reference Designation must be unique.
- Reference Designation structure must provide an automated sort in top-down sequence.
- Reference Designation must agree with technical manuals and drawings.
- Quantity per End Item must indicate the total quantity within the "equipment". *
- A summation of the Quantity per Assembly for a part within an "equipment"* must be equal to the QTY/EI for the part.

* The term "equipment" refers to any item being documented by a unique Provisioning Contract Control Number (PCCN).

APPENDIX F

Indenture Coding

The purpose of the Indenture Coding Example is to illustrate the relationships between the following DPDs:

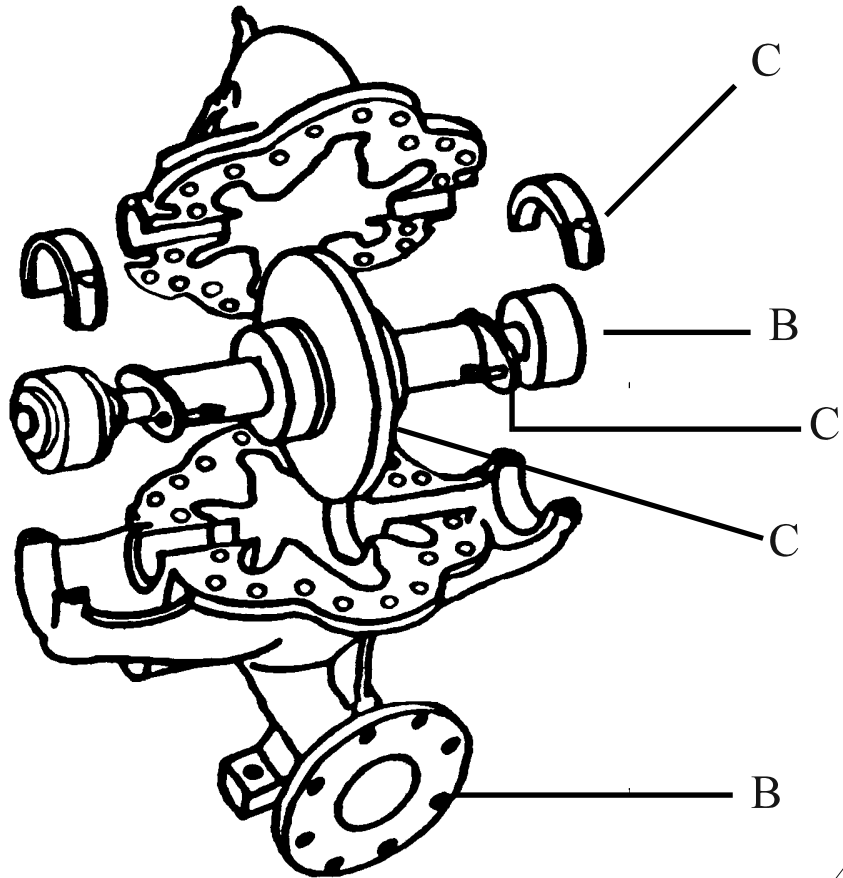
- Indenture Code
- Quantity Per Assembly (QTY/ASSY)
- Quantity per End Item (QTY/EI)
- Part Numbers

INDENTURE CODING STRUCTURE

All PCCNs will have indenture codes assigned to each PLISN. PCCNs utilizing reference designators will have the reference designator as the sequencing method. PCCNs without reference designators assigned will utilize indenture codes for sequencing purposes. They are used to show a lateral and descending family tree relationship of each line item to and within the system or end item and its components (units), assemblies, subassemblies, and sub-subassemblies. Indenture codes are assigned as a one-character alphabetic symbol as follows:

```
*A*B*C*D*E*F
*
*A  END ITEM
* *B Detailed parts of end item not contained in components of
* *   installed system
* *
* *B COMPONENT (UNIT)
* * *C Detailed parts of component (unit) that are not
* * *   assemblies or subassemblies
* * *
* * *C ASSEMBLIES
* * * *D Detailed parts of assemblies that are not
* * * *   subassemblies
* * * *
* * * *D SUBASSEMBLIES
* * * * *E Detailed parts of subassemblies that are not
* * * * *   sub-subassemblies
* * * * *
* * * * *E SUB-SUBASSEMBLIES
* * * * * *F Detailed parts of sub-subassemblies
* * * * * *
```

PUMP — A



The following "family tree" shows the indenture coding structure as depicted in the Indenture Coding Example.

Note that the first listed bearing at indenture level "C" shows a QTY/ASSY of 1 and a QTY/EI of 2. For the second listed bearing, which has the same part number as the first listed bearing, the QTY/EI is REF to indicate that this line item has already appeared on the provisioning list.

<u>Line</u>	<u>Item</u>	<u>Indenture Code</u>	<u>QTY/ASSY</u>	<u>QTY/EI</u>	<u>Part Number</u>
	PUMP	A	1	1	ABC
	CASING	B	1	1	DEF
	ROTOR ASSY	B	1	1	GHI
	IMPELLER	C	1	1	JKL
	SHAFT	C	1	1	MNO
	BEARING	C	1	2	PQR
	BEARING	C	1	REF	PQRT

APPENDIX G

General APL Worthiness Guidance

This Appendix contains guidelines for use in determining the need to submit PTD for the development of APLs to support new items. While these rules provide general guidance for determining if an item is non-APL worthy, any item that requires clarification of APL worthiness should be referred to the TSA for final determination. PTD submittal shall be required for all items determined to be APL worthy.

1. GENERAL APL WORTHINESS RULES: An item is considered APL worthy if it is identifiable by its own nameplate, can be operated independently or as part of another system, and if either of the following listed situations apply:

- a. The end item/component is determined by the maintenance philosophy to be repairable through replacement of one or more parts, or
- b. The end item/component has been determined to be non-repairable (consumable) by the maintenance philosophy, but is mission critical or configuration worthy.

If any of the above guidance is not applicable, the item is considered non-APL worthy and will be added as a Line Item (LI) to the Next Higher Assembly (NHA) APL or to the ship's 89000 series APL.

2. ADDITIONAL HULL, MECHANICAL AND ELECTRICAL (HM&E) EQUIPMENT GUIDANCE: For a current listing of HM&E equipment requiring special provisioning and/or allowance preparation procedures, or equipment that will not have supply support provided, see "APL Worthiness Guidance" at <https://icaps.nmci.navy.mil/pcoe/aplworth.html>.

APPENDIX H
Commercial-Off-The-Shelf/Non-Developmental Item (COTS/NDI)
Allowance Documentation Guidance

1. COTS/NDI Allowance Document Development. The following guidance is provided to aid in the development of allowance documentation for repairable, consumable and embedded COTS/NDI items.

1.1. Repairable COTS/NDI End Items/Components: APLs will be developed for COTS/NDI end items/components determined by the maintenance philosophy to be repairable through replacement of one or more parts.

1.2 Non-Repairable (Consumable) COTS/NDI End Items/Components: APLs may also be developed for end items/components, which have been determined to be non-repairable, by the maintenance philosophy, but are mission critical and configuration worthy. The following options may be used as methods of supporting consumable, end item type COTS/NDI items:

- **Option 1:** Develop a configuration RIC with a NSN/NICN for identification/reordering of the end item/component by the user.
- **Option 2:** Equipment category type "Shopping list" APLs could be developed which would identify a listing of items that the fleet would select items from. If desired, the shopping list APLs could be identified in OMMS-NG/R-Supply to allow for easier requisitioning by the fleet provided that the items identified are assigned a "Z" override to prevent allowance computations. Computers and computer accessories that are used for desktop computing in an office environment are a good example of equipment suited for this type of APL support.
- **Option 3:** Develop "Generic" Equipment APLs. The APL will cover a broad range of models and it would include a single generic NSN/NICN coded as either Local Supported items or by using a generic performance specification. Any special operating parameters will have to be identified on the APL for reference. For Local Support Items, the APL must also include procurement guidance to assist the fleet with procuring approved equipment. Equipment such as Furuno Radar is an example of this type of equipment.

- **Option 4:** Use Allowance Equipage Lists (AELs) with generic P-NICNs for the portable COTS/NDI items. Hand held/portable devices are an example of this type of equipment. AELs for these items will be developed as follows:
 - a. The numbering method for these AELs will be 3-(the ship's UIC) xxx1
 - b. Only one AEL will be developed for each hull on an as needed basis.
 - c. Only those items deemed "COSAL" worthy, but not falling into one of the other categories will be listed on this AEL.
 - d. AEL will indicate that all items listed are "local purchase, local support" only. No supply support will be provided.
 - e. All items listed on this AEL will receive an ANC of "H" indicating that this item is listed for information only and will not appear in the SNSL. This will provide the needed accounting control and ensure that outfitting funds will not be utilized.
 - f. All items listed on this AEL will be assigned a P-NICN, leaving the particular manufacturer and model/type up to the individual ship.
 - g. All initial procurements and replacements of these items will be paid for out of the ship's operating funds. No outfitting funds will be utilized.
 - h. Any allowance change requests will require the submission and approval of an Allowance Change Request (ACR) form through the appropriate channels per the PAFOS Manual.

1.3 Embedded/Consumable COTS/NDI Items: COTS/NDI items, which are consumable in nature and embedded into a system, may be identified as line items on the Next Higher Assembly (NHA) APL. For cases where the NHA or system is not an APL worthy item, the consumable COTS/NDI items may be added as line items to the appropriate ships 89000 series APL.

2. Additional Guidance for Electronic COTS/NDI Equipment.

2.1. Joint Electronics Technical Designation System (JETDS) Nomenclature Assignment. MIL-STD-196E requires establishment of Joint Electronics Technical Designation System (JETDS) nomenclature for electronic equipment for which the government owns and controls design and configuration rights. It prohibits JETDS nomenclature assignment for unaltered COTS items where the government does not own and control design and configuration. JETDS nomenclature for COTS intensive systems should use a

formal nomenclature for only the government controlled components in the system with all other components being designated by CAGE and Manufacturer's Part Number. This could restrict the JETDS nomenclatures to racks and consoles specifically designed to house COTS equipment and components. When the contents of the racks and consoles are COTS elements, they shall not require JETDS nomenclatures and will be treated as separate items. The system itself shall not require a JETDS nomenclature and it would use an HM&E style name like "COTS SURFACE SEARCH RADAR SYSTEM". However, if the government owns and controls system level design and configuration, a system level JETDS nomenclature indicating the COTS nature (e.g. AN/SPS-XX (V) COTS SURFACE SEARCH RADAR SYSTEM FAMILY) is required.

2.2. Allowance Parts List (APL) Characteristics. The COTS item shall be specified by functional, electrical, and physical specifications for initial selection into the system design. These specifications shall be documented on the APL to enable ship and fleet maintenance personnel to make rapid substitution decisions. CAGE/Part Number identifications must be the CAGE/Part Number of the OEM of the item rather than CAGE/Part Number assigned by the "system integrator" or other secondary provider.

2.3.Allowance Component Lists (ACLs). Traditional ACLs at the electronic system level shall not be developed for COTS intensive systems having numerous optional components unless a cost effective benefit can be demonstrated. When used, ACLs must be maintained as the product lines change, adding to the life cycle cost, or they will lose any usefulness.

2.4. Alterations. Traditional Field Change/ORDALT style of alteration management for COTS intensive systems results in avoidable costs and complexity. The addition, removal, or substitution of additional components shall be regarded as simple maintenance events rather than an actual alteration of an end item. Such events shall be treated as a SHIPALT rather than an FC or ORDALT. Otherwise, modifications to the design of the government owned and controlled items will require traditional Field Change/ORDALT alteration management.

APPENDIX I

PRELIMINARY ALLOWANCE LIST (PAL) DPDS

LMI Format	LMI Data Product Deliverable (DPD) Description	DEN #	LMI DPD Dictionary #
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MANDATORY PROVISIONING DATA PRODUCTS:

- Required for All Items

A-1	Provisioning Contract Control Number (PCCN)	C011	870
A-2	Provisioning List Item Sequence Number (PLISN)	E038	890
A-5	Commercial and Government Entity Code (CAGE)	C035	140
A-6	Reference Number	D001	1050
A-11	Essentiality Code (EC) (Must be 1, 3, 5, 7)	C008E	280
A-12	Item Name	C004	480
B-22	Source Maintenance and Recoverability Code (SMR)	D012/D013A D013B/D013C D012A	1220
B-23	Demilitarization Code (DMIL)	D017	230
B-26	Controlled Inventory Item Code (CIIC)	C017	180
C-32	Quantity Per Assembly	D011	930
C-33	Quantity Per End Item	D011	950
A-4	Indenture Code (HM&E, Ordnance)*	-----	370
D-44	Reference Designation (Electronics)*	D004	1030

* Indenture Code or Reference Designation must be assigned.

CONDITIONALLY MANDATORY PROVISIONING DATA PRODUCTS:

- Required if item is new (No NSN)

B-19	U/I Price	B053	1500
B-24	Production Lead Time (PLT)	B010A	830
C-34	Maintenance Replacement Rate I (MRRI)	F001/F027	560

- Required if item is new (No NSN) and a Depot Level Repairable (DLR)

E-65	Remain In Place Indicator (RIP)	F078	*
E-60	Designated Rework Point (DRP)	F016	*

- Required if item is new (No NSN) and Source Code = "PC"

A-13	Shelf Life (SL)	C028	1190
A-14	Shelf Life Action Code (SLAC)	C029	1200

- Required if item is new (No NSN) and Unit of Issue is non-definitive

B-16	Unit of Measure (UM)	C054C	1510
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PRELIMINARY ALLOWANCE LIST (PAL) DPDS

LMI

Format

LMI DPD

Block # LMI Data Product Deliverable (DPD) Description DEN #
Dictionary #

DEFAULTED PROVISIONING DATA PRODUCTS:

- Submit if other than Default Value

A-7	Reference Number Category Code (RNCC); Default = "5"	D024
	1060	
A-8	Reference Number Variation Code (RNVC); Default = "1"	D006
	1070	
A-9	Document Availability Code (DAC); Default = "5"	D001B
		*
B-18	Unit of Issue (U/I); Default = "EA"	C005
		1470
B-27	Precious Metal Indicator Code (PMIC); Default = "A"	C411
	790	
D-52	Minimum Replacement Unit (MRU); Default = "1"	C007
		*
E-62	Acquisition Method Code (AMC); Default = "5"	D025E
		*
E-63	Acquisition Method Suffix Code (AMSC); Default = "Q"	D025F
	*	

OPTIONAL PROVISIONING DATA PRODUCTS:

- Submit if Available or Applicable

B-15	National Stock Number (NSN) and Related Data	D046D	680
A-5/6	Additional CAGE/Reference Number(s)	C035/	1050
	Limit to a maximum of three additional numbers.	D001	
D-43	Usable On Code (UOC)	-----	1560
D-50	Allowance Item Code (AIC) (See Notes 1 & 2)	-----	010
D-51	Allowance Item Quantity (AIC QTY) (See Notes 1 & 2)	-----	020

* Data Product Deliverable (DPD) is not defined in the LMI Performance Specification. It is a Supplemental Provisioning Data Product and additional information is provided in the narrative that accompanies the LMI Worksheet.

NOTES to TSA/ISEA:

- (1) The Allowance Item Code and Allowance Item Quantity should be limited to the same values used for APLs, e.g. PMS Overrides, MAMs, OSI, approved ACIM overrides, etc. Since the PAL will contain all the necessary data to perform COSAL/OMMS-NG/R-SupplyI computations, the Allowance Item Code/Allowance Item Quantity should not be used for SRI overrides, other than ACIM. The Allowance Item Code/Allowance Item Quantity will load the Allowance Factor Code, Allowance Note Code, or the Technical Override Code and the respective quantity.
- (2) For Non-RBS systems, application of "A" AORs will be used to document ISS allowances in NSAF. They will be transitioned to new SAF "U" (defined specifically for ISS) upon Reengineered Maritime Allowance Development (ReMAD) programming and implementation. "Y" AORs will be applied to suppress items not included as ISS. AORs will be removed from the file at MSD to trigger standard (e.g. Fleet Logistics Support Improvement Program (FLSIP)) allowance computation for follow-on updates.

APPENDIX J

Provisioned Item Orders (NAVSEA) (Feb 1994) and Guidance for Completion of Standard Form 26, Award/Contract

(a) General. The Contractor agrees that it will furnish the supplies or services ordered by the Government in accordance with the procedures specified herein. The Contracting Officer, Provisioning Activity, or Administrative Contracting officer will place orders as unilateral or bilateral modifications to this contract on SF 30, Amendment of Solicitation/Modification of Contract. Any amounts shown in Section B at time of award of the initial contract for each provisioned line item are estimated amounts only and are subject to upward or downward adjustment by the issuing activity. If no amounts are shown, funding will be obligated before or at time of order issuance. It is understood and agreed that the Government has no obligation under this contract to issue any orders thereunder.

(b) Priced Orders. For each proposed order, the Contractor agrees that it will submit a signed SF 1411 (Contract Pricing Proposal) or such other cost or pricing data as the Contracting Officer may require. Promptly thereafter, the Contractor and the Contracting Officer shall negotiate the price and delivery schedule for the proposed order. Upon execution and receipt of the priced order, the Contractor shall promptly commence the work specified in the order.

(c) Undefinitized Orders. Whenever the Contracting Officer determines that urgent demands or requirements prevent the issuance of a priced order, he/she may issue an unpriced order. Such order may be unilateral or bilateral and shall establish a limitation of Government liability, a maximum ceiling amount, and a schedule for definitization, as described in subparagraph (e) (2) below. Upon request the Contractor shall submit a maximum ceiling amount proposal before the undefinitized order is issued. The maximum ceiling amount is the maximum price at which the order may be definitized. The contractor shall begin performing the undefinitized order upon receipt, except as provided in paragraph (d) below. The clause entitled "PRICE CEILING" (DFARS 252.217-7027) shall be included in any undefinitized order.

(d) Rejection of Unilateral Orders. The Contractor may reject any unilateral order if the Contractor determines that it cannot feasibly perform the order, or if the Contractor does not concur with the maximum ceiling amount. However, each unilateral order

shall be considered as accepted by the Contractor unless within fifteen days of issuance of the order, the Contractor notifies the Contracting Officer in writing of its rejection of the order.

(e) Definitization of Undefinitized Orders.

(1) The Contractor agrees that following the issuance of an undefinitized order, it will promptly begin negotiating with the Contracting Officer the price and terms of a definitive order that will include: (A) all clauses required by regulation on the date of the order; (B) all clauses required by law on the date of execution of the definitive order; and, (C) any other mutually agreeable clauses, terms, and conditions. No later than sixty (60) days after the undefinitized order is issued, the Contractor agrees to submit a cost proposal with sufficient data to support the accuracy and derivation of its price; and, when required by FAR, cost or pricing data, including SF 1411. If additional cost information is available prior to the conclusion of negotiation, the Contractor shall provide that information to the Contracting Officer. The price agreed upon shall be set forth in a bilateral modification to the order. In no event shall the price exceed the maximum ceiling amount specified in the undefinitized order.

(2) Each undefinitized order shall contain a schedule for definitization which shall include a target date for definitization and dates for submission of a qualifying proposal, beginning of negotiations and, if appropriate, submission of make-or-buy and subcontracting plans and cost or pricing data. Submission of a qualifying proposal in accordance with the definitization schedule is a material element of the order. The schedule shall provide for definitization of the order by the earlier of:

(i) A specified target date that is not more than 180 days after the issuance of the undefinitized order. However, that target date may be extended by the Contracting Officer for up to 180 days after the Contractor submits a qualifying proposal as defined in DFARS 217.7401; or

(ii) The date on which the amount of funds expended by the Contractor under the undefinitized order, exceed fifty percent (50%) of the order's maximum ceiling amount, except as provided in subparagraph (f) (3) below.

(3) If agreement on a definitive order is not reached within the time provided pursuant to subparagraph (e) (2) above, the Contracting Officer may, with the approval of the Head of the Contracting Activity, determine a reasonable price in accordance with Subpart 15.8 and Part 31 of the FAR, and issue a unilateral order subject to Contractor appeal as provided in the "DISPUTES" clause (FAR 52.233-1). In any event, the Contractor shall proceed with completion of the order, subject to the "LIMITATION OF GOVERNMENT LIABILITY" clause (FAR 52.216-24).

(f) Limitation of Government Liability.

(1) Each undefinitized order shall set forth the limitation of Government liability, which shall be the maximum amount that the Government will be obligated to pay the Contractor for performance of the order until the order is definitized. The Contractor is not authorized to make expenditures or incur obligations exceeding the limitation of Government Liability set forth in the order. If such expenditures are made, or if such obligations are incurred, they will be at the Contractor's sole risk and expense. Further, the Limitation of Government Liability shall be the maximum Government liability if the order is terminated. The "LIMITATION OF GOVERNMENT LIABILITY" clause shall be included in any undefinitized order.

(2) Except for undefinitized orders for Foreign Military Sales (FMS); purchases of less than \$25,000; special access programs; and Congressionally mandated long-lead procurements; and except as otherwise provided in subparagraph (f) (3) below, the limitation of Government liability shall not exceed fifty percent (50%) of the ceiling amount of an undefinitized order. In the case of orders within these excepted categories, the procedures set forth herein shall be followed to the maximum extent practical.

(3) If the Contractor submits a qualifying proposal (as defined in DFARS 217.7401) to definitize an order before the Contractor has incurred costs in excess of fifty percent (50%) of the ceiling amount, the Contracting Officer may increase the limitation of Government liability to up to seventy-five percent (75%) of the maximum ceiling amount or up to seventy-five percent (75%) of the price proposed by the Contractor, whichever is less.

(4) If at any time, the Contractor believes that its expenditures under an undefinitized order will exceed the limitation of Government liability, the Contractor shall so

notify the Contracting Officer, in writing, and propose an appropriate increase in the limitation of Government liability of such order. Within thirty (30) days of such notice, the Contracting Officer will either (i) notify the Contractor in writing of such appropriate increase, or (ii) instruct the Contractor how and to what extent the work shall be continued; provided, however, that in no event shall the Contractor be obligated to proceed with work on an undefinitized order beyond the point where its costs incurred plus a reasonable profit thereon exceed the limitation of Government liability, and provided also that in no event shall the Government be obligated to pay the Contractor any amount in excess of the limitation of Government liability specified in any such order prior to establishment of firm prices.

(g) Initial Spares. The limitation set forth in paragraph (c) and subparagraphs (e) (2), (f) (2), and (f) (3) do not apply to undefinitized orders for the purchase of initial spares.

(h) Terminal Date for Placement of Orders. The Contractor shall not be obligated to accept any orders placed there under beyond 180 days after delivery of the last end item.

(i) Segregation of Costs. The Contractor shall segregate the costs of performance of each undefinitized order from the cost of any other work performed by the Contractor.

Guidance for Completion of Standard Form 26, "Award/Contract"

Hardware contracts should establish separate Contract Line Item Numbers (CLINs) for procurement of systems support and spare parts, which may include:

- * On Board Repair Parts (OBRPs)
- * Maintenance Assistance Modules (MAMs)
- * Installation and Checkout (INCO) spares
- * System Stock or Replenishment

The following sections of Standard Form 26, "Award/Contract" should be completed:

Section B, "Supplies or Services and Prices/Costs." This establishes the specific CLINs with the Quantity/Unit, Unit Price, and Amounts completed with "To Be Determined (TBD)" or "To Be Negotiated (TBN)." This will give the Government the opportunity to determine material requirements and to compute allowances for interim funded outfitting and interim funded replenishment spares. Separate CLINs may also be established for different appropriations to be charged for the items.

If the Supply Management Representative at the Naval Inventory Control Point (NAVICP) is to exercise this option, the CLIN(s) should indicate "NAVICP OPTION."

Section C, "Description, Specifications/Work Statement." This section summarizes the purpose of the CLINs and should refer to MIL-STD-1388-2B (Logistic Support Analysis Record (LSAR)) and Section H.

Section F, "Deliveries or Performance." Since delivery dates will not yet be established, the fields for Destination and Delivery Date for each CLIN should indicate, "As specified, if and to the extent Option is exercised."

Section H, "Special Contract Requirements." Section H-14 and H-15 consists of standard contract pricing, enforcement, and liability provisions related to invoking the PIO clause.

APPENDIX K

LMI WORKSHEET NARRATIVE FOR NON-ICAPS PROVISIONING SUBMITTALS NAVSEA's LMI Supplemental Direction For Provisioning Data Products And Deliverables, Format And Media

1. Information contained herein describes the specifications for submission of SUPPLY SUPPORT SUPPORTABILITY ANALYSIS SUMMARIES (SASS) format and media to the Government's Automated Provisioning System called Interactive Computer Aided Provisioning System (ICAPS). Strict adherence to these instructions must be applied to ensure that provisioning data is accepted by ICAPS. This document also contains instructions for other provisioning related deliverables and tasks.

2. ICAPS was developed by the government for developing and transmitting provisioning related data. It is available free of charge to contractor personnel as well as government agencies. Contractors are encouraged to take advantage of the opportunity to utilize this software that would eliminate any concern about compatibility of the contractor's system with ICAPS. Two versions of ICAPS are currently available: ICAPS Standalone and ICAPS Client Server (ICAPS C/S). ICAPS Standalone has incorporated the ability to produce formatted outputs that facilitate transmission of data from one provisioning activity to another. ICAPS C/S is a real-time database that enables all provisioning related activities to access and manipulate the data in the database. Although use of ICAPS simplifies the verification of the data development and submission process, the contractor has the latitude to utilize any system for development of the data. However, the system utilized must be able to produce a structured formatted text or flat file in accordance with the direction contained herein.

3. DATA PRODUCT DELIVERABLE FORMAT: If the contractor is not developing the Provisioning Data Product utilizing ICAPS, the Contractor shall provide the required DPDs specified on the LMI worksheet in ICAPS compatible format. ICAPS compatible format is defined as the structured 80-column record layout/file format identified by figure 1. This file shall be sequenced by indenture or Reference Designation breakdown as described in paragraph 6.5.7 of the LMI Performance Specification (MIL-PRF-49506).

4. SUPPLEMENTAL PROVISIONING DATA PRODUCT DESCRIPTIONS: The following information further defines the supplemental data fields listed in Figure 1 which are not included in LMI (MIL-PRF-49506).

LMI S001: ACCEPTANCE CODE (IN SERVICE ENGINEERING AGENCY (ISEA)) (AC). This element defines the incremental provisioning status of a PLISN (E038) during the TSA/NAVICP Technical review. Valid codes are as follows:

CODE	DEFINITION
A	PLISN (E038) related data technically accurate and accepted.
P	Acceptable PLISN (E038) and related data were passed to the NAVICP (computer generated).
Q	PLISN (E038) and related data are technically questionable and is not accepted. Additional technical research is required before data is accepted.
Blank	Not reviewed.

LMI S002: ACQUISITION METHOD CODE (AMC). This element indicates the extent to which the item of supply is competitively procured. This code, in combination with the Acquisition Method Suffix Code, defines how the item will be procured. Valid codes are as follows:

CODE	DEFINITION
0	Not established.
1	Item screened and found to be already competitive.
2	Item screened and determined for the first time to be suitable for Competitive procurement.
3	Item screened and found to be procured directly from the actual manufacturer or vendor, including a prime contractor who is the actual manufacturer.
4	Item screened and determined for the first time to be suitable for direct purchase from the actual manufacturer or vendor rather than the original prime contractor for the end items, which these parts support.
5	Item screened and determined not suitable for competitive procurement or direct purchase and which, therefore, continue to be procured from a prime contractor who is not the actual manufacturer.

If Acquisition Method Code = 0, then AMSC must = 0.
If Acquisition Method Code = 1 OR 2, then AMSC must = A, B, C, G, H, K, L, M, N, P, Q, R, S, T, U, V, Y or Z.
If Acquisition Method Code = 3, 4 OR 5, then AMSC must = A, B, C, D, H, K, L, M, N, P, Q, R, S, U, V, Y or Z.

LMI S003: ACQUISITION METHOD SUFFIX CODE (AMSC). This element is a supplementary code that indicates the primary reason why the Acquisition Method Code was assigned for procurement of high dollar spare parts. For example, the item requires special testing facilities, rights to procurement are not legally available, it is uneconomical for competition, design is unstable, there is a requirement for standardization and interchangeability, etc. Valid codes are as follows:

CODE	DEFINITION
0	Not established.
A	The Government's right to use data in its Possession is questionable and must be resolved.
B	Procurement of this item is restricted to sources specified on 'Source Control' drawings.
C	This item requires engineering source approval by the design control activity in order to maintain the quality of the item. Substantiation of alternate sources for these parts must be in accordance with the design activity's procedures as approved by the Cognizant Government engineering activity. Procurement must be made only from approved source(s).
D	The data needed to produce this item from additional sources is not physically available.
G	This item is technically suitable and legally clear for advertising and the data package is complete.
H	The Government does not have in its possession sufficient, accurate or legible data to purchase this item from any other source(s).
K	This item is produced from class 1A castings (e.g. class 1 of MIL-C- 6021) and similar type forging.
L	The low dollar value of procurements makes it uneconomical to undertake to improve the procurement status of this item.
M	Application of master or coordinated tooling (e.g. numerically controlled tapes) is required to produce this item.
N	This item requires special test and/or inspection facilities to determine and maintain ultra-precision quality for the items.
P	Rights to use data for procurement of this item from additional sources are legally unavailable and cannot be acquired by purchase.

- Q Government does not have adequate data or lacks rights to data needed to purchase this part from additional sources.
- R The data or the rights to use the data needed to purchase this item from additional sources are not owned by the Government and it has been determined that it is uneconomical to acquire them by purchase.
- S Procurement of this item is restricted to limited source(s) because security classification of confidential or higher prevents public disclosure.
- T Procurement of this item is controlled by QPL procedures.
- U This item is uneconomical to compete.
- V This item has been designated a high reliability part under a formal reliability program method code if military or adopted industry specifications are substituted for the contractor's data which are subject to the Government's limited rights of use.
- Y The design of this item is unstable.
- Z This part is a COTS/NDI or off the shelf item.

LMI S004: ALLOWANCE EQUIPAGE LIST QUANTITY (AEL QTY). This is a numeric value or 'AR' in seven groups of 3 digits and an 8th group of 4 digits. Each group of digits indicates the quantity of the item required that support a ship/group of ships/fleet type equipment/activity. When arranged in the foregoing order such characters compromise a predetermined table of quantities of equipage items.

LMI S005: ALTERNATE NATIONAL ITEM IDENTIFICATION NUMBER (ALT NIIN). The NIIN and NATO code portions of a stock number reference in an item record, which reflect the stock number of an item that may under certain conditions, are used in lieu of the item. Alternate NIIN Relationship Code (ANRC) must always accompany this entry. Alternate items are defined in CAIMS as two or more items possessing such functional and physical characteristics as to be equivalent in performance and durability and capable of being exchanged one for the other without alteration of the items themselves, or have adjoining items, conjunction with the Cognizance Symbol (COG) and the DOD IC/NALC in CAIMS. This element may reflect an Activity Control Number (ACN) or a Complete Round Code (CRC) in lieu of a NIIN when appropriate in CAIMS.

LMI S006: ALTERNATE NIIN RELATIONSHIP CODE (ANRC). This element indicates the conditions or restrictions under which each alternate stock number is to be used.

CODE	DEFINITION
X	Indicates demilitarization requirement or munitions list applicability not determined by the ICP. Local determination necessary prior to disposal action. Will be disseminated only upon interrogation. (To be recorded in the FLIS MIF by FLIS only.

The first digit reflects item preference and parts considerations as follows:

Even digits (0, 2, 4, 6)	Equal Parts or consumable items.
Odd digits (1, 3, 5, 7)	Different repair parts.
0, 1, 2, or 3	Preferred item is shown
	on
	D016, Alternate National Item Identification Number
	(Alt
	NIIN).
4 or 5	Preferred item is shown in C001, Federal Stock Number/Activity Stock Number.
6 or 7	Neither is preferred over the other parts (except Class 6).

The second digit reflects the usability classification shown below as class.

CLASS	DEFINITION
1	Interchangeable - Alternate and prime items are completely interchangeable; therefore, either may be used in any application recorded for either item.
2	Substitutable - Common applications: Alternate and prime item may be substituted for each other only in applications common to both. The non-preferred item or both items must reflect additional applications not recorded under the other, for which the item is not substitutable.

Note: If only the preferred item has additional application, the relationship is Class 4.

- 3 Substitutable - Restricted common application(s): Alternate and prime item may be substituted for each other only in certain serial numbers of the applications common to both. For applications common to both items for which serial number restrictions do not apply, the items are considered as Class 2.
- 4 Substitutable - Preferred item can be used for applications of the non-preferred item, but the non-preferred item may be used for the preferred item only in applications common to both items. The preferred item must reflect all applications recorded under the non-preferred item plus one or more additional applications.
- 5 Substitutable - Preferred item can be used for all applications of the non-preferred item but the non-preferred item may be substituted only in specific serial numbers of applications common to both items. For applications common to both for which no serial restrictions exist, the alternate may be considered as Class 4. The preferred item must reflect all applications of the non-preferred item plus one or more additional applications.
- 6 Rework-Planned Modification - Preferred item is to be obtained by a modification of the non-preferred item. After modification has been completed, only the preferred item will continue as an item of supply. All material in stock must be reworked before issue. Preferred item is to be obtained by a Rework-Phased Modification of the non-preferred item in phase with the scheduled weapon modernization (i.e., ORDALT, SPALT, Aircraft, Engine, and Equipment Change). The non-preferred item will be used until the scheduled modification has been completed. Upon completion of the scheduled modification, the non-preferred item may continue as an item of supply when it supports applications other than the modernized version for which the schedule was developed, or when the modernization

- schedule affected only a portion of the total population of the weapon.
- 7 Rework - Emergency Modification: Preferred item may be obtained by a modification of the non-preferred item, but the rework is limited to emergency situations requiring the preferred item.
- 0 Degree of Relationship not determined.
- a. A relationship is known to exist between the prime and alternate items and their parts range, use in applications, or preference in replenishment actions has not been evaluated.
 - b. As a result of the Family Selection Program, (A/O B23) a relationship exists between the prime and alternate items. Program is unable to determine relationship.

LMI S007: CALCULATION. Selecting 'ON' for this DPD will define the project as an alteration (ORDALT, DCN, etc.). Defining the project as an alteration causes ICAPS to process the project differently than it would one with a complete top-down breakdown. On-line computation of Next Higher Assembly PLISN, Same as PLISN and Quantity per End Item is not accomplished. These fields become non-protected free write. You may enter any values you wish; the system will not override them. Valid codes are as follows:

CODE DEFINITION

- ON Project is an alteration. On-line computation of Next Higher Assembly PLISN, Same As PLISN and Quantity Per End Item are bypassed.
- OFF Project is a complete top-down breakdown.

LMI S008: COMPONENT IDENTIFICATION DATA (CIDHELP).

- X Specifies that characters of the data entry are upper case, alphabetic, numerical, special, or any combination thereof.
- L Specifies that the characters are Left Justified.
- R Specifies that the characters are Right Justified.
- N Specifies that all characters of the data entry are numerical.
- F Specifies that the characters always occupy the entire field (Fixed).

COMPONENT CHARACTERISTICS FILE (CCF) DATA. The CCF data fields are dependent upon the project type (HM&E, Electronics, Ordnance, Other) that is selected on the Project Header Screen. For each project type, the fields and their patterns are as follows:

HM&E CCF Pattern		
Line No.	Nomenclature	Description
1	MFR	56 X L - Commercial and Government Entity Code for the manufacturer.
2	NAVCOM PLAN	56 X L - Naval Command's drawing number, if known.
3	MFR DWG	56 X L - Manufacturer's drawing number.
4	MFR ID	56 X L - Part No. used to identify the item.
5	PATTERN NO.	56 X L
6	EQUIP. SPEC.	56 X L - Equipment specification number of component.
7	NSN	56 X L - NSN/NICN for the component, if known. An unlimited amount of record entries can be entered. Data field sizes are indicated and unlimited means there can be one or more occurrences of the given data.
8	LAPL	Provided by TSA.
9	CHARACTERISTIC DATA	56 X L (Unlimited) - Complete characteristic data including size (HP, GPM, etc.), electrical characteristics, size of connections (if applicable), and other data required for positive identification of the component design and applicable repair parts.

ORDNANCE CCF Pattern		
Line No.	Nomenclature	Description
1	MFR	56 X L - Commercial and Government Entity Code for the manufacturer.
2	NAVCOM PLAN	56 X L - Naval Command's drawing number, if known.
3	MFR DWG	56 X L - Manufacturer's drawing number.
4	MFR ID	56 X L - Part No. used to identify the item
5	PATTERN NO.	
6	EQUIP. SPEC.	56 X L - Equipment specification number of component.
7	NSN	56 X L - NSN/NICN for the component, if

		known. An unlimited amount of record entries can be entered. Data field sizes are indicated and unlimited means there can be one or more occurrences of the given data.
8	LAPL	Provided by TSA.
9	MARK	56 X L
10	MODEL	56 X L - Model/Type number of component.
11	CHARACTERISTIC DATA	56 X L (Unlimited) - Complete characteristic data including size (HP, GPM, etc.), electrical characteristics, size of connections (if applicable), and other data required for positive identification of the component design and applicable repair parts.

ELECTRONICS CCF Pattern		
Line No.	Nomenclature	Description
1	MFR	56 X L - Commercial and Government Entity Code for the manufacturer.
2	NHA	If known.
3	NSN	56 X L - NSN/NICN for the component, if known. An unlimited amount of record entries can be entered. Data field sizes are indicated and unlimited means there can be one or more occurrences of the given data.
4	EIC	Typically provided by TSA.
5	COMMERCIAL NOMEN.	56 X L - Nomenclature for item.
6	CONTRACT NO.	56 X L
7	SOURCE OF APL INFO.	56 X L
8	TECH MANUAL	56 X L - Applicable Navy identification number of the technical manual which includes the component being provisioned, if known.
9	PROV PARTS LIST	56 X L - PCCN
10	CHARACTERISTIC DATA	56 X L (Unlimited) - Complete characteristic data including size (HP, GPM, etc.), electrical characteristics, size of connections (if applicable), and other data required for positive identification of the component design and applicable repair parts.

Additional Data Requirements:

Technical Manual Number: 30 X L - Applicable Navy identification number of the technical manual which includes the component being provisioned, if known.

Certification Data Sheet No.: 32 X L - Certification data sheet number when assigned, if known.

Next Higher Assembly (NHA): 25 X L (Unlimited) - This block relates to the equipment being provisioned. Identify the NHA for the item being provisioned, if known.

Next Lower Assembly (NLA): 25 X L (Unlimited) - This block relates to the equipment being provisioned. Identify the NLA for the item being provisioned, if known.

Navy Hull Nos./Activity Unit Identification Codes (UICs): 6 X L (Unlimited) - When known, enter all Navy hull numbers or activity UICs to which the end item/component is being provided from the referenced procurement(s). If Navy hull numbers or UICs are not known, enter the total number of end items purchased for Navy use by the referenced contracts.

Number of Components: 3 N R (Unlimited) - When known, enter the number of Component installed/to be installed on each Navy hull and/or UICs.

Service Application Data: 32 X L (Unlimited) - Service Application Code (SAC), Service Application Description (SAD), Equipment Identification Code (EIC) or Expanded Ship Work Breakdown Structure (ESWBS), as appropriate.

POC Data. The contractor (submitter), Technical Support Activity (TSA), and Inventory Control Point (ICP) shall each provide the following information:

 Name 15 X L

 Organization/Code 15 X L

 Phone 15 X

SPS Previous Order Number. 32 X L - Enter the previous contract or purchase order number (PIIN) and the contract or purchase order item number (SPIIN). If the identical equipment is being furnished from more than one contract, also list all applicable contracts for which provisioning data has been previously submitted.

Provisioning Activity Receiving Previous PTD. 32 X L (Unlimited) Enter the name and address of the activity to which the previous provisioning was submitted.

National Stock Number (NSN) or Navy Item Control Number (NICN). 32 X L (Unlimited) Enter the NSN/NICN for the component.

Electrical, Mechanical, Physical, and Dimensional Data. 32 X L (Unlimited) If the item to be provided is identical in every respect to the item provisioned previously, enter a brief statement confirming that there is complete interchangeability (including replacement parts) electrically, mechanically, physically, and dimensionally between the items. If the item being provided has been modified in any respect from the previously provisioned item, enter a brief statement explaining the degree of interchangeability including its replacement parts.

Number or Percent of Changes to Update PTD to New Configuration. 32 X L (Unlimited) Enter either the number or percentage of changes required to update the previously delivered PTD to the new configuration.

Brief Description of Changes. 32 X L (Unlimited) Enter a brief description of the changes to the new configuration from the previously submitted provisioning data.

LMI S009: CONTROL DATA. This DPD identifies the level (Basic, Rev 1, Rev 2, etc.) of the provisioning list. Field may not be blank.

LMI S010: DESIGN CHANGE NOTICE USABLE ON CODE (DCN UOC). This field defines the Usable on Codes affected by the Design Change Notice.

LMI S011: DESIGNATED REWORK/OVERHAUL POINT (DOP) (DESREWRK). This code identifies the overhaul point(s) to which the repairable item will be returned for rework, renovation, overhaul, etc. Positions 1-6 identify the first DOP; positions 7-12 identify the second. If PAL/CANDI, positions 7-12 are not used. A six-position DOP is structured as follows:

First Position:

CODE	DEFINITION
A	Army Activity.
C	Army Contractor.
E	Air Force Contractor.
F	Air Force Activity.
L	Marine Corps Contractor.
M	Marine Corps Activity.
N	Navy Activity.
Q	Navy Contractor.

Second Through Sixth Positions:

First position codes C, E, L or Q will be followed by the activity's five-digit CAGE code in Cataloging Handbooks H4-1 and H4-2.

First position code N will be followed by the Navy Unit Identification Code (UIC) as identified in the NAVCOMP Manual.

First position codes F or M will be followed by the 5-character codes in the DOD activity address directory DOD 4000.25-D.

LMI S012: DOCUMENT AVAILABILITY CODE (DAC). This code indicates the availability of technical documentation required defining a Reference Number/CAGE as an item of supply. Valid codes are as follows:

CODE	DEFINITION
1	The activity recorded will furnish the drawing upon request. A drawing represents the Reference Number cited. The drawing was available to the activity recorded.
2	The activity recorded cannot furnish the drawing. A drawing represents the Reference Number cited. The drawing was available to the activity recorded.
3	The activity recorded will furnish the technical documentation upon request. The Reference Number cited is represented by technical documentation other than a drawing. The technical documentation was available to the activity recorded.
4	The activity recorded cannot furnish the technical documentation. The Reference Number cited is represented by technical documentation other than a drawing. The documentation was available to the activity recorded.

- 5 A drawing represents the Reference Number
cited. The drawing was not available to the
activity recorded.
- 6 The Reference Number cited is represented by
technical documentation other than a
drawing. The documentation was not
available to the activity recorded.
- 9 For the Reference Number cited, document
availability is not required. When code '9'
is used, Reference Number Category Code must
= 6.
- A An engineering drawing represents the
Reference Number. The drawing is available
for unlimited use.
- B An engineering drawing represents the
Reference Number. The drawing is available
for limited use under the terms of the
rights in data clause of the contract under
which the data was obtained.
- C An engineering drawing represents the
Reference Number. The drawing is available
for unlimited use under the security
measures specified for the level of security
classification assigned. The drawing will
be furnished only to qualified requestors.
- D An engineering drawing represents the
Reference Number. The drawing is available
for limited use under the terms of the
rights in data clause of the contract under
which the data was obtained and under the
security measures specified for the level of
security classification assigned. The
drawing will be furnished only to qualified
requestors.
- E The Reference Number is represented by
engineering data other than an engineering
drawing. The data is available for
unlimited use.
- F The Reference Number is represented by
engineering data other than an engineering
drawing. The data is available for limited
use under the terms of the rights in data
clause of the contract by which the data was
obtained.
- G The Reference Number is represented by
engineering data other than an engineering
drawing. The data is available for
unlimited use under the terms of the rights
in data clause of the contract by which the
data was obtained, and under the security

measures specified for the level of security classification assigned. The data will only be furnished to qualified requestors.

H The Reference Number is represented by engineering data other than an engineering drawing. The data is available for limited use under the terms of the rights-in-data clause of the contract by which the data was obtained and under the security measures specified for the level of security classification assigned. The data will be furnished only to qualified requestors by the activity identified by the RNAAC. Descriptive data based on Limited Rights information will not be released to the general public through publications or other media.

Further Instructions:

1. Government specifications and standards shall be considered technical documentation. They shall be coded DAC 3, 4 or 6.
2. DAC Code 9 shall be assigned when a Reference Number Variation Code of 9 and a Reference Number Category Code of 6 are assigned.
3. Unlimited use is defined as data that can be used for any purpose. Codes A and E applies. Codes C and G also apply except where security measures specify a level of security classification.
4. Limited use is defined as data that cannot be used for competitive re-procurement. Codes B, D, F and H apply.
5. Alphabetic codes indicate the availability of engineering data from a designated repository. Included, where applicable, is an indication that government rights in the data and a security classification condition of the documents are involved.

LMI S013: FORMAT INDICATOR. This DPD defines in the system the format under which provisioning data is currently stored in ICAPS. One standard must be specified. The system will validate and display data according to the standard specified. Valid codes are as follows:

CODE	DEFINITION
52	MIL-STD 1552A.
2A	MIL-STD 1388.2A.
2B	MIL-STD 1388.2B.

IC	PAL (Preliminary Allowance List).
ND	CANDI (Commercial and Non-developmental Items).
LM	LMI (Logistics Management Information).

Subsequent to project load, the user may work the project under a format different than the one under which the project was initially loaded. If the project was initially loaded as MIL-STD 1388.2A, you can change formats by changing this indicator. If the project was initially loaded as MIL-STD 1552A, you must run a conversion utility to work the project as MIL-STD 1388.2A or 2B.

LMI S014: HEADER REMARKS. Use the Header Remarks to write any notational information. This field is operational and there are no validations.

LMI S015: ITEM MANAGEMENT CODE (IMC). This element indicates if an item of supply will be subject to integrated management or be retained by the individual military services. IMC is mandatory for all items in Federal Supply Class assigned for integrated management. Field must be blank when Cognizance Symbol = 0X or 0C. Valid codes are as follows:

CODE	DEFINITION
A	Nuclear Hardened: Items that are specifically designed to be nuclear hardened against the effects of electromagnetic pulse (EMP), radiation thermal (heat), blast, shock, etc. so that they continue to perform their function in an environment created by a nuclear explosion.
B	Special Waivers: Items that have been approved as special waivers to consolidation of integrated material management.
C	Engineer/Design Critical: Engineer/Design critical items are those for which requisite quality must be insured. This is due to the catastrophic consequences of failure of these items on their Next Higher Assembly, end item or weapon system. Their limited applicability and critical application in safety and combat readiness application recognize these items.
D	Major equipment end item. Item is subject to continuing centralized item management and asset control throughout all command and support echelons.
E	Repairable centrally managed.

F	Item controlled by a single agency for all federal applications. It will be retained by the services for integrated management.
J	Design unstable.
L	Fabricated or reclaimed.
N	Modification, alteration or conversion sets or kits intended for one time use. Replenishment or replacement is not anticipated.
P	Nuclear propulsion. Item is used in a nuclear power plant or associated system and requires stringent technical or quality control.
S	Security classified. Item requires special management due to its security classification.
W	Foreign Military Sales: Items that are used only by Security Assistance customers, i.e. foreign countries and international organizations.
Z	Integrated management. Service management in the designated commodity class is relinquished to the CIMM (FSC manager) for management.

NOTE: IMCs B, D, E, F, J, L, N, P, W will be retained for integrated material management by the military services or designated item manager.

IMCs A, C, S will be consolidated for integrated material management by DLA.

DLA or GSA will consolidate IMC Z for integrated material management.

LMI S016: KEY PROVISIONING CONTRACT CONTROL NUMBER (KEY PCCN). By entering a key PCCN value in the header of each PCCN in a series of equipment's, the user can link separate projects together as part of a system. By using the key PCCN access in ICAPS, you can call up just the projects that comprise a system. The user may then select a project for access. In both the ICAPS Client/Server and Standalone versions, this key can be used to do global part related data maintenance to all PCCNs linked to a Key PCCN. With a single transaction, part data changes can be applied to all projects in a system.

LMI S017: LIST DATE SUBMITTED. This DPD consists of 8 positions; left justified, two (2) positions for month, two (2) positions for day with four (4) positions for year.

Field may not be blank. Valid codes are as follows:
(mmddyyyy).

Positions 1-2 = 01-12 (month).

Positions 3-4 = 01-31 (day).

Positions 5-8 = 0000-9999 (year).

LMI S018: MAINTENANCE REPLACEMENT RATE MODIFIER (MRRMOD).

This DPD is a series of codes used to modify (multiply) the MRR for environmental conditions by area of system or equipment deployment. Field consists of six sub-fields in 1388.2A and seven sub-fields in 1388.2B. The first five sub-fields in 1388.2A (6 sub-fields in 1388.2B) identify the multiplier to use for the following geographic areas:

CODE	DEFINITION
C	CONUS.
E	Europe.
P	Pacific.
S	Southern Command.
A	Alaska.
M	Mid-East (1388.2B only).

Code for multiplier definitions are:

CODE	MULTIPLIER (DEFINITION)
A	0.25
B	0.50
C	0.75
1	1.00
2	1.25
3	1.50
4	1.75
5	2.00
6	2.25
7	2.50
8	2.75
9	3.00
10	No requirement

The sixth sub-field in 1388.2A (seventh sub-field in 1388.2B) indicates if the item is subject to a wear out failure pattern. In this case, it is coded W.

Positions 1-5 (1-6 in 1388.2B) must be A-C, 0-9 or blank. Position 6 (7 in 1388.2B) must be W or blank.

LMI S019: MINIMUM REPLACEMENT UNIT (MRU)/ FAILURE FACTOR

II. This element is the quantity of the item to be replaced when, for preventive maintenance purposes, the item must be replaced. Element is right justified zero filled. Express in terms of the Unit of Installation.

LMI S020: NOMENCLATURE OR MODEL OR TYPE NUMBER. This DPD identifies the name, model, or type of equipment being provisioned. This field may not be blank.

LMI S021: PROCUREMENT INSTRUMENT IDENTIFICATION (PII INCLUDING PIIN/SPIIN). The PII identifies a specific contractual document. The PII includes the Procurement Instrument Identification Number (PIIN), (13 Positions), and the Supplementary Procurement Instrument Identification Number (SPIIN), (6 positions). Field may not be blank.

Characters:

- 1-6 Identification of Purchasing Office.
- 7-8 Last two digits of the fiscal year in which the number is assigned.
- 9 Type of Procurement Instrument Code.
- 10-13 Serial Number.

LMI S022: PROJECT TYPE. A code that indicates in what format the PTD is being submitted. This DPD is not a UICP DPD. It cannot be maintained or retrieved in any UICP files.

CODE	DEFINITION
N	HM&E
O	Ordnance
R	Electronics
X	Other

LMI S023: RECOMMENDED INITIAL SYSTEM STOCK BUY (RISS BUY). The recommended minimum stock buy quantity.

LMI S024: RECOMMENDED TENDER LOAD LIST QUANTITY (RTLL). The recommended quantity required by a tender to support assigned hulls.

LMI S025: REFERENCE DESIGNATION OVERFLOW CODE (RDOC). This element is computer generated when the reference designation exceeds 32 positions. The letter A shall appear immediately to the right of the first 32 positions. The letter B shall appear to the right of the next line. If the second 32 positions of the Reference Designation are blank, the overflow field will remain blank.

LMI S026: RELIABILITY BLOCK DIAGRAM (RBD). A Reliability Block Diagram is a logic chart which, by means of the arrangement of blocks and lines, depicts the effect of an item failure on a system's functional performance. Usually each block refers to equipment, which is physically distinct from every other equipment shown on the diagram and has an identifiable Expanded Ship Work Breakdown Structure (ESWBS) or Functional Group Code (FGC),

Nomenclature, Equipment Number and Type Number, and Reliability and Maintainability data (MTBF, MTTR, DC). This field is used to identify each of those blocks and is used in the Readiness Based Sparing (RBS) process. See the Reliability Block Diagram Standards, Report No. 05MR-001-87, May 1987 for further policy and procedures.

LMI S027: REMAIN IN PLACE INDICATOR (RIP IND). This element identifies an item for which an unserviceable unit will be turned in on an exchange basis after receipt of a serviceable unit. Valid codes are as follows:

CODE	DEFINITION
C	Containerization.
M	Maintenance consideration.
N	Not RIP worthy.
P	Partial mission capable supply.
S	Safety consideration.
V	Mobility constrained.
X	Has not been screened for RIP worthiness.
Y	Remain In Place authority granted.

LMI S028: REMARKS. This element allows the user to set forth-explanatory data that is considered essential to the provisioning process. The Remarks block will not be used by the provisioning activity to collect additional elements of data.

LMI S029: REPAIRABLE IDENTIFICATION CODE (RIC). This element is the APL number of the equipment/component being provisioned or the AEL number when an AEL is developed during the provisioning process. There are basically two types of RICs. Allowance Parts Lists (APLs) which are either; Electronic, Hull, Mechanical & Electrical (HM&E), or Ordnance, and Allowance Equipage Lists (AELs). APLs are generally numeric, but there are cases where alpha characters will be used. Also, APL s can have Suffixes or Prefixes.

LMI S030: REPAIR SURVIVAL RATE (RSR). This element represents the percentage of reported non-serviceable repairable assets that will, through rework, be returned to a serviceable condition. Field is right justified zero filled.

LMI S031: SUBMISSION CONTROL CODE (SCC). The first submission number must be 00001. Each successive incremental submission shall be one (1) number greater than the previously numbered submission. This field must not be blank.

LMI S032: SUPPLEMENTAL NOMENCLATURE. This element is lines of data providing additional technical information for a specific item. The SNF contains additional nomenclature information for designated APL/AEL records. It provides the capability of storing additional technical information concerning a specific item (i.e., fabrication informational, dimensions, policy letter references, application, nomenclature, size, etc.).

5. MEDIA FOR SUPPLY SUPPORT SUPPORTABILITY ANALYSIS SUMMARIES (SAS)s: All media shall implement the file format specified in this document. All media shall permit the transmission of a transfer file. The media type shall be determined at the Provisioning Guidance Conference (PGC). If ICAPS Standalone is used for data development, the file(s) submitted during the provisioning process should utilize the ICAPS output for "PCS (C/S Interface File)" format (i.e. contain a file extension of .pcs). The "PCS (C/S Interface File)" format is used so that the Component Identification Data (CID)/Component Characteristics File (CCF)/Allowance Equipage Lists (AEL)/Reliability Block Diagram (RBD) information will transfer into ICAPS C/S during the transfer process. Otherwise, the SASs shall be in accordance with Figure 1 format. The following types of media can be used to provide the SASs:

- a. ICAPS Client/Server (ICAPS C/S) - When used to load all the required SASs, media transfer of the provisioning data is not required because the data is loaded real-time into ICAPS C/S. (*Preferred Method*)
- b. Electronic Transfer of the Supply Support Supportability Analysis Summaries (SAS) - As formatted in accordance with Appendix K provided via electronic mail (Email), File Transfer Protocol (FTP) or file transfer into ICAPS C/S.
- c. Digital media - Use 3 1/2-inch Diskettes or Compact Disks. (*Least Preferred*)
- d. Delivery of CID for Statements of Prior Submission (SPS) will be as agreed upon during the PGC.

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

FIRST HEADER CARD (01Y)			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Procurement Instrument Identification	07-25	19	
Nomenclature or Model or Type Number	26-46	21	
Control Data	47-56	10	
Prime Commercial and Government Entity	57-61	5	
Submission Control Code	62-66	5	
Date of List Submitted	67-72	6	
Filler	73-77	5	
Card Sequence Number	78-79	2	01
Card Sequence Type	80	1	Y

SECOND HEADER CARD (02Y)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Contractor Activity	07-16	10	
Repairable Identification Code (1)	17-26	10	
Date Created	27-32	6	
Type of PTD	33	1	
DCN Flag	34	1	
Activity/Code TSA-ID	35-49	15	
Activity/Code NAVICP-ID	50-64	15	
QPEI Method	65	1	
Audit Indicator	66	1	
Format Code	67-68	2	
Calculation Indicator	69	1	
Filler	70-77	8	
Card Sequence Number	78-79	2	02
Card Type	80	1	Y

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

THIRD HEADER CARD (03Y)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
OR/SI	07-11	5	
First Key PCCN	12-17	6	
Second Key PCCN	20-25	6	
Filler	28-77	50	
Card Sequence Number	78-79	2	03
Card Type	80	1	Y

REMARKS CARD (01Z-06Z)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Remarks	07-49	43	
Filler	50-77	28	
Card Sequence Number	78-79	2	01-06
Card Type	80	1	Z

CID (CD SHEET/TM) CARD (010)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Certification Data Sheet Number	07-38	32	
Technical Manual Number	39-68	30	
Filler	69-77	9	
Card Sequence Number	78-79	2	01
Card Type	80	1	0

CID (CCF) CARD (00011-99991)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Component/Equipage Description	07-62	56	
Filler	63-75	13	
Card Sequence Number	76-79	4	0001 - 9999
Card Type	80	1	1

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

CID (POC) CARD (012-032)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Name	07-21	15	
Organization/Code	22-36	15	
Telephone	37-51	15	
Filler	52-77	26	
Card Sequence Number	78-79	2	Contractor is 01; TSA is 02; ICP is 03
Card Type	80	1	2

CID (NHA/NLA) CARD (00013-99993)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Next Higher Assembly	07-31	25	
Next Lower Assembly	32-56	25	
Filler	57-75	19	
Card Sequence Number	76-79	4	0001 - 9999
Card Type	80	1	3

CID (SAC/SAD) CARD (015-999)			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
Navy Hull Nos/Activity UICs	07-12	6	
Number of Components	13-16	4	
Service Application Data	17-48	32	
Filler	49-77	29	
Card Sequence Number	78-79	2	01 - 99
Card Type	80	1	5 - 9

Note: This allows for 495 occurrences in the range of 015-995;
016-996, etc

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01A CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Indenture Code	13	1	
Commercial and Government Entity	14-18	5	
Manufacturers Part Number (Reference Number)	19-50	32	
Reference Number Category Code	51	1	
Reference Number Variation Code	52	1	
Document Availability Code	53	1	
Program Parts Selection List Code	54	1	
Essentiality Code	55	1	
Item Name	56-74	19	
Shelf Life Code	75	1	
Shelf Life Action Code	76-77	2	
Card Sequence Number	78-79	2	01
Card Type	80	1	A

02A-99A CARDS ** ALTERNATE PNs **			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Indenture Code	13	1	
Commercial and Government Entity	14-18	5	
Manufacturers Part Number (Reference Number)	19-50	32	
Reference Number Category Code	51	1	
Reference Number Variation Code	52	1	
Document Availability Code	53	1	
Filler	54-77	24	

02A-99A CARDS ** ALTERNATE PNs **			
Card Sequence Number	78-79	2	02-99
Card Type	80	1	A

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01B CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Cognizance Symbol	13-14	2	
Material Control Code	15-15	1	
National Stock Number	16-28	13	
National Stock Number Suffix	29-30	2	
National Stock Number Suffix	31-32	2	
Unit of Measurement	33-34	2	
Unit of Measure Price	35-44	10	
Unit of Issue	45-46	2	
Unit of Issue Price	47-56	10	
Unit of Issue Conversion Factor	57-61	5	
Quantity per Unit Pack	62-64	3	
Source, Maintenance & Recoverability	65-70	6	
Demilitarization Code	71	1	
Production Lead Time	72-73	2	
Hardness Critical Item	74	1	
Physical Security/Pilferage CD	75	1	
Precious Metals Indicator Code	76	1	
Automatic Data Processing Equipment Code	77	1	
Card Sequence Number	78-79	2	01
Card Type	80	1	B

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01C CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Next Higher Assembly PLISN	13-17	5	
Next Higher Assembly PLISN Indicator	018	1	
Overhaul Replacement Rate	19-21	3	
Quantity per Assembly	22-25	4	
Quantity per End Item	26-30	5	
Maintenance Replacement Rate I	31-38	8	
Maintenance Replacement Rate II	39-46	8	
Maintenance Replacement Rate Modifier	47-53	7	
Total Quantity	54-59	6	
Same as PLISN	60-64	5	
Prior Item PLISN	65-69	5	
Maximum Allowable Operating Time	70-73	4	
Maintenance Action Code	74	1	
Not Repairable This Station	75-77	3	
Card Sequence Number	78-79	2	01
Card Type	80	1	C

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01D CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Use on Code	13-20	8	
Reference Designation	21-52	32	
Reference Designation Overflow Code	53	1	
Reference Designation Code	54	1	
Type of Item Code	55-57	3	
Allowance Item Code	58-59	2	
Allowance Item Quantity	60-62	3	
Minimum Replacement Unit	63-65	3	
Recommended Minimum System Stock Level	66-68	3	
Recommended Initial System Stock Buy	69-71	3	
Recommended Tender Load List Quantity	72-74	3	
Repair Survival Rate	75-77	3	
Card Sequence Number	78-79	2	01
Card Type	80	1	D

02D-11D CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Use on Code	13-20	8	
Reference Designation	21-52	32	
Reference Designation Overflow Code	53	1	
Reference Designation Code	54	1	
Filler	55-77	23	
Card Sequence Number	78-79	2	02-11
Card Type	80	1	D

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01E CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Maintenance Task Distribution	13-26	14	
Repair Cycle Time	27-44	18	
Replacement Task Distribution	45-59	15	
Designated Rework (Overhaul) Point (DOP)	60-71	12	
Contractor Technical Information Code	72-73	2	
Acquisition Method Code	74	1	
Acquisition Method Suffix Code	75	1	
Item Management Code	76	1	
Remain In Place Indicator	77	1	
Card Sequence Number	78-79	2	01
Card Type	80	1	E

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01F-99F CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Change Authority	13-27	15	
Interchangeability Code	28-29	2	
Serial Number Effectively - From	30-39	10	
Serial Number Effectively - To	40-49	10	
Total Item Change	50-51	2	
Replaced or Superseding PLISN	52-56	5	
Replaced or Superseding PLISN Indicator	57	1	
Quantity Shipped	58-63	6	
Quantity Procured	64-69	6	
Design Change Notice Usable On Code	70-77	8	
Card Sequence Number	78-79	2	01-99
Card Type	80	1	F

01G-99G CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Change Authority Number	13-27	15	
Prorated Exhibit Line Item Number	28-33	6	
Prorated Quantity	34-39	6	
Filler	40-77	38	
Card Sequence Number	78-79	2	01-99
Card Type	80	1	G

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01H-99H CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Logistic Control Number	13-30	18	
Alternate LSA Control Number Code	31-32	2	
Remarks	33-77	45	
Card Sequence Number	78-79	2	01-99
Card Type	80	1	H

01J-05J CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Technical Manual Code	13-15	3	
Figure Number	16-19	4	
Item Number	20-23	4	
Technical Manual Change Number	24-25	2	
Technical Manual Indenture Code	26	1	
Quantity per Figure	27-29	3	
Work Unit Code/Tech Man/ Functional Group Code	30-40	11	
BOI Quantity Authorized	41-45	5	
Quantity per End Item	46-53	8	
Basis of Issue Level	54	1	
Basis of Issue Control	55	1	
BOI Quantity Authorized	56-60	5	
Quantity per End Item	61-68	8	
Basis of Issue Level	69	1	
Basis of Issue Control	70	1	
Nuclear Hardness Critical Item	71	1	

01J-05J CARDS			
Item - Name - Code	72-76	5	
Line Replaceable Unit	77	1	
Card Sequence Number	78-79	2	01-05
Card Type	80	1	J

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01K CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Technical Manual Code	13-15	3	
Figure Number	16-19	4	
Item Number	20-23	4	
Provisioning Nomenclature	24-77	54	
Card Sequence Number	78-79	2	01
Card Type	80	1	K

01M-04M CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
Provisioning Contract Control Number	01-06	6	
Provisioning List Item Sequence Number	07-12	6	
Material	13-77	65	
Card Sequence Number	78-79	2	01-04
Card Type	80	1	M

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01N CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
PLISN	07-12	6	
Reliability Block Diagram	13-22	10	
Supplemental Nomenclature	23-47	25	
Allowance Equipage List Quantity-A	48-50	3	
Allowance Equipage List Quantity-B	51-53	3	
Allowance Equipage List Quantity-C	54-56	3	
Allowance Equipage List Quantity-D	57-59	3	
Allowance Equipage List Quantity-E	60-62	3	
Allowance Equipage List Quantity-F	63-65	3	
Allowance Equipage List Quantity-G	66-68	3	
Allowance Equipage List Quantity-H	69-72	4	
Filler	73-77	5	
Card Sequence Number	78-79	2	01
Card Type	80	1	N

01P CARD			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
PLISN	07-12	6	
Allowance Factor Code	13	1	
Allowance Factor Code Quantity	14-18	5	
Allowance Note Code	19	1	
Allowance Override Designator Code	20	1	
Allowance Override Quantity	21-23	3	
PTD Select Code	24-34	11	
Filler	35-77	43	
Card Sequence Number	78-79	2	01
Card Type	80	1	P

NAVSEA DATA PRODUCT DELIVERABLE (DPD) FORMAT TABLE

01Q-99Q CARDS			
FIELD NAME	POSITION	LENGTH	COMMENTS
PCCN	01-06	6	
PLISN	07-12	6	
ANRC	13-14	2	
Alternate NIIN	15-23	9	
Filler	24-77	54	
Card Sequence Number	78-79	2	01-99
Card Type	80	1	Q

LMI DATA PRODUCT / ICAPS RELATIONAL TABLE

<u>DATA FORMAT BLOCK #</u>	<u>LMI DATA PRODUCT #</u>	<u>LMI ITEM NAME</u>	<u>LMI FIELD LENGTH</u>	<u>ICAPS ITEM NAME</u>	<u>ICAPS FIELD LENGTH</u>
1	0870	PROVISIONING CONTRACT CONTROL NUMBER (PCCN)	6XF	PCCN	6X
2	0890	PROVISIONING LIST ITEM SEQUENCE NUMBER (PLISN)	5XL	PLISN	5X
3	1420	TYPE OF CHANGE CODE (TOCC)	1AF	TOCC	1X
4	0370	INDENTURE CODE	1XF	IC	1X
5	0140	COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE	5XF	CAGE	5X
6	1050	REFERENCE NUMBER (CSN=001)/ADDITIONAL RN (CSN>001)	32XL	RN & ARN	32X
7	1060	REFERENCE NUMBER CATEGORY CODE (RNCC)	1XF	RNCC	1X
8	1070	REFERENCE NUMBER VARIATION CODE (RNVC)	1NF	RNVC	1N
9	S001	DOCUMENT AVAILABILITY CODE (DAC) *	1XF	DAC	1X
10	0840	PROGRAM PARTS SELECTION LIST (PPSL)	1AF	PPSL	1X
11	0280	ESSENTIALITY CODE (EC) (PART MEC)	1NF	EC	1N
12	0480	ITEM NAME (LIMIT FIELD LENGTH TO 19 A/N)	40XL	ITEM NAME	19X
13	1190	SHELF LIFE (SL)	1XF	SL	1X
14	1200	SHELF LIFE ACTION CODE (SLAC)	2XF	SLAC	2X
15	0680	NATIONAL STOCK NUMBER & RELATED DATA	20X	COG, MCC, NSN , SUFFIX	23(3-)X
16	1510	UNIT OF MEASURE (UM)	2AF	UM	2X
17	1500	UNIT OF MEASURE PRICE	10NR2	UM PRICE	11(2)N
18	1470	UNIT OF ISSUE (UI)	2AF	UI	2X
19	1500	UNIT OF ISSUE PRICE	10NR2	UI PRICE	11(2)N
20	1480	UNIT OF ISSUE CONVERSION FACTOR (UICF)	5N	UICF (FIRST DIGIT=DECIMAL LOCATOR 1NF)	5N
21	0980	QUANTITY PER UNIT PACK (QPUP)	3NR/NF	QPUP	3N
22	1220	SOURCE, MAINTENANCE & RECOVERABILITY (SMR) CODE	6XL	SMR CODE	6
23	0230	DEMILITARIZATION CODE (DMIL)	1AF	DMIL	1X
24	0830	PRODUCTION LEAD TIME (PLT)	2NR	PLT	2N
25	0340	HARDNESS CRITICAL ITEM (HCI)	1AF	HCI	1X

<u>DATA FORMAT BLOCK #</u>	<u>LMI DATA PRODUCT #</u>	<u>LMI ITEM NAME</u>	<u>LMI FIELD LENGTH</u>	<u>ICAPS ITEM NAME</u>	<u>ICAPS FIELD LENGTH</u>
26	0180	CONTROLLED INVENTORY ITEM CODE (WAS PSPC)	1XF	PHYSICAL SECURITY/PILFERAGE CODE (PSPC)	1X
27	0790	PRECIOUS METAL INDICATOR CODE (PMIC)	1XF	PMIC	1X
28	0040	AUTOMATIC DATA PROCESSING EQUIPMENT CODE (ADPEC)	1NF	ADPEC	1N
29	0690	NEXT HIGHER ASSEMBLY PLISN (NHA PLISN)	5XF	NHA PLISN	5X
30	0700	NHA PLISN INDICATOR	1XF	NHA IND	1X
31	0740	OVERHAUL REPLACEMENT RATE (ORR)	3NR2	ORR (INCLUDES DASH) OHL QTY	4N2
32	0930	QUANTITY PER ASSEMBLY (QPA)	4AL/NR	QPA	4N
33	0950	QUANTITY PER END ITEM (QPEI)	5AL/NR	QTY/EI	5X
34	0560	MAINTENANCE REPLACEMENT RATE I (MRRI)	8NR4	MRRI/TRF	9N4
35	0570	MAINTENANCE REPLACEMENT RATE II (MRRII)	8NR3	MRRII	9N3
36	S011	MAINTENANCE REPLACEMENT RATE MODIFIER *	7XF	MAINTENANCE REPLACEMENT RATE MODIFIER	7X
37	1400	TOTAL QUANTITY RECOMMENDED (TQR)	6NR	TQR	6N
38	1150	SAME AS PLISN	5XL	SAME AS PLISN	5X
39	0820	PRIOR ITEM PLISN	5XL	PRIOR ITEM PLISN	5X
40	0620	MAXIMUM ALLOWABLE OPERATION TIME (MAOT)	4X	MAOT	1X
41	0540	MAINTENANCE ACTION CODE (MAC)	1AF	MAC	1X
42	0710	NOT REPARABLE THIS STATION (NRTS)	3AF	NRTS	3X
43	1560	USABLE ON CODE (UOC)	4XL	UOC	8X
44	1030	REFERENCE DESIGNATION (RD) (LIMIT FIELD LENGTH TO 32)	64XL	RD	32X
45	S012	REFERENCE DESIGNATION OVERFLOW CODE *	1XF	RDOC	1X
46	1040	REFERENCE DESIGNATION CODE (RDC)	1AF	RDC	1X
47	1260	SPECIAL MATERIAL CONTENT CODE (SMCC)	1AF	SMCC (TYIT 1st POSITION)	1A
48	0880	PROVISIONING LIST CATEGORY CODE (PLCC)	1AF	PLCC (TYIT 2nd POSITION)	1A
49	1240	SPECIAL MAINTENANCE ITEM CODE (SMIC)	1AF	SMIC (TYIT 3rd POSITION)	1A
50	0010	ALLOWANCE ITEM CODE (AIC)	2XF	AIC (2 SUBFIELDS, TYPE=1AF, & CODE=1XF)	2X
51	0020	ALLOWANCE ITEM QUANTITY (AIC QTY)	3NR	AIC QTY	3X
52	S002	MINIMUM REPLACEMENT UNIT (MRU) *	3NR	MRU, FL2	3N
53	1010	RECOMMENDED MINIMUM SYSTEM STOCK LEVEL	3NR	RMSSL	3N

<u>DATA FORMAT BLOCK #</u>	<u>LMI DATA PRODUCT #</u>	<u>LMI ITEM NAME</u>	<u>LMI FIELD LENGTH</u>	<u>ICAPS ITEM NAME</u>	<u>ICAPS FIELD LENGTH</u>
		(RMSSL)			
54	S003	RECOMMENDED INITIAL SYSTEM STOCK BUY *	3NR	RECOMMENDED INITIAL SYSTEM STOCK BUY	3N
55	S004	RECOMMENDED TENDER LOAD LIST QUANTITY *	3NR	RTLLQ	3N
56	S005	REPAIR SURVIVAL RATE (RSR) *	3NR	RSR, FFIII	3N
57	0580	MAINTENANCE TASK DISTRIBUTION	14N	MAINTENANCE TASK DISTRIBUTION	10X
58	1080	REPAIR CYCLE TIME	18N	REPAIR CYCLE TIME (4 SUB FIELDS)	15X
59	1110	REPLACEMENT TASK DISTRIBUTION	15N	REPLACEMENT TASK DISTRIBUTION (4 SUB FIELDS)	15N
60	S006	DESIGNATED REWORK POINT (DRP) *	12X	DESIGNATED REWORK POINT (2 SUB FIELDS)	12X
61	0170	CONTRACTOR TECHNICAL INFORMATION CODE (CTIC)	2A	CTIC	2X
62	S007	ACQUISITION METHOD CODE (AMC) *	1NF	AMC	1X
63	S008	ACQUISITION METHOD SUFFIX CODE (AMSC) *	1XF	AMSC	1X
64	S009	ITEM MANAGEMENT CODE (IMC) *	1AF	IMC	1X
65	S010	REMAIN-IN-PLACE (RIP) *	1AF	RIP	1X
66	0120	CHANGE AUTHORITY NUMBER	15XL	CHANGE AUTHORITY NUMBER	15X
67	0430	INTERCHANGEABILITY CODE (IC)	2AF	IC	2X
68	1170	SERIAL NUMBER EFFECTIVITY	20X	SERIAL NUMBER EFFECTIVITY, 2 FIELDS 10X EACH	20X
69	1390	TOTAL ITEM CHANGES (TIC)	2NR	TIC	2N
70	1090	REPLACED OR SUPERSEDING PLISN	5XL	REPLACED OR SUPERSEDING PLISN	5X
71	1100	REPLACED OR SUPERSEDING PLISN INDICATOR	1AF	REPLACED OR SUPERSEDING PLISN INDICATOR	1X
72	1000	QUANTITY SHIPPED	6NR	QUANTITY SHIPPED	6N
73	0990	QUANTITY PROCURED	6NR	QUANTITY PROCURED	6N
74	S013	DESIGN CHANGE NOTICE UOC *	8X	DCN UOC	8X
75	0850	PRORATED EXHIBIT LINE ITEM NUMBER (PRORATED ELIN)	6X	PRORATED ELIN	6N
76	0860	PRORATED QUANTITY	6NR	PRORATED QUANTITY	6N
77	0380	INDENTURED PRODUCT CODE (IPC) (WAS LCN)	24XL	LOGISTIC SUPPORT ANALYSIS CONTROL NO. (LCN)	18X
78	0030	ALTERNATE INDENTURED PRODUCT CODE (AIPC)	2NF	ALTERNATE LCN	2NF

<u>DATA FORMAT BLOCK #</u>	<u>LMI DATA PRODUCT #</u>	<u>LMI ITEM NAME</u>	<u>LMI FIELD LENGTH</u>	<u>ICAPS ITEM NAME</u>	<u>ICAPS FIELD LENGTH</u>
79	0920	PROVISIONING REMARKS (LIMIT FIELD LENGTH TO 79)	-- -- --	PROVISIONING REMARKS	79A/N
80	S015	TECHNICAL MANUAL CODE (TMC) *	3XF	TMC	3X
81	0300	FIGURE NUMBER	4XR	FIGURE NUMBER	4X
82	0500	ITEM NUMBER	4XR	ITEM NUMBER	4X
83	1350	TECHNICAL MANUAL CHANGE NUMBER (TM CHG)	2NR	TM CHG	2N
84	1360	TECHNICAL MANUAL INDENTURE CODE (TM IND)	1NF	TM IND	1N
85	0960	QUANTITY PER FIGURE	3NR	QUANTITY PER FIGURE	3N
86	1580	WORK UNIT CODE	7XF	WORK UNIT CODE (2 SUB FIELDS)	11X
87	0050	BASIC OF ISSUE (BOI) (4 SUB FIELDS)	15X	BOI	15X
88	0190	CRITICALITY CODE (CC)	1AF	NUCLEAR HARDNESS CRITICAL ITEM (NHCI)	1AF
89	0490	ITEM NAME CODE	5NF	ITEM NAME CODE	5NF
90	0520	LINE REPLACEABLE UNIT (LRU)	1AF	LRU	1X
91	0900	PROVISIONING NOMENCLATURE (LIMIT FIELD LENGTH TO 42)	-- -- --	PROVISIONING NOMENCLATURE	42X
92	0590	MATERIAL	240XL	MATERIAL	240A/N

* See Narrative

