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IN REPLY REFER TO:
NAVICPINST 4441.170B
85432/RD

NAVICP INTERNAL INSTRUCTION 4441.170B

DEC 19 2007

From: Commander

Subj: **COSAL USE AND MAINTENANCE MANUAL**

Ref: (a) SPCCINST 4441.170A

1. **Purpose.** To provide guidelines of COSAL USE and Maintenance Instructions/procedures. This instruction replaces reference (a) in its entirety, and represents the collective input from a variety of sources.

2. **Cancellation.** SPCCINST 4441.170A

3. **General**

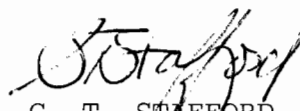
The new revision has been updated to include information on the CNO approved Price Sensitive .5 FLSIP Plus Allowance model, COSAL In ACCESS (CIA), and the General Use Consumables List (GUCL) process. Additionally, we have taken steps to streamline the manual by completely removing several chapters that are not directly associated with the COSAL and are covered by their own governing procedures. Removed chapters are as follows:

- a. Chapter 5, Sections B and C - Overhauls and Availabilities
- b. Chapter 6, Requisition Outfitting Requirements
- c. Chapter 9, "Q" COSAL
- d. Appendix B - Auto-MCMAR Desk-Top Processing Instructions.

The COSAL Use and Maintenance Manual will be posted to the NKO website (<http://www.nko.navy.mil>) and available on CD-ROM, but no longer provided in hardcopy format.

4. **Maintenance Responsibility.**

The Allowance and Configuration Division, Code 8543, is responsible for the maintenance of this instruction.


G. T. STAFFORD
By direction

INTRODUCTION

This publication guides the user through the Coordinated Shipboard Allowance List (COSAL)/Coordinated Shorebase Allowance List (COSBAL) to identify equipments and their repair parts and consumables. Furthermore, this publication discusses the various methods available to the user to report equipment configuration deficiencies discovered by ship's force or to report changes resulting from formal alteration accomplishment. It also provides a logic matrix to afford any COSAL/COSBAL user the administrative and automated tools with which to correct a myriad of Integrated Logistic Support (ILS) deficiencies, ranging from inadequate technical manual support to inadequate repair part allowances to affect maintenance. An accurate COSAL/COSBAL, used correctly, will guarantee successful logistical support of our Navy's ship and shore stations. Most ships are now automated and follow automated COSAL use and maintenance procedures. The purpose of this manual is to provide a basic COSAL background which can be used to better understand and complement automated COSAL procedures.

COSAL specifies the range and depth of all equipments validated to be on board a ship and resident in the Weapon Systems File (WSF). It also specifies all repair parts, special tools, and Maintenance Assistance Modules (MAM) required to maintain the ship, and further provides specific repair part allowances necessary to support preventive and corrective maintenance during extended and unreplenished periods at sea. The COSAL and its shorebase counterpart, the COSBAL, are important tools in maintaining total Fleet readiness. This publication is designed to help both technical and supply personnel to better understand the content of the COSAL/COSBAL, how it is produced, and how it should be used and maintained.

Comments and recommendations concerning this manual are encouraged and should be sent to the following address:

Commander, Naval Inventory Control Point
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P O Box 2020
5450 Carlisle Pike
Mechanicsburg, Pennsylvania 17055-0788

or call DSN 430-1809, Commercial 717-605-1809.

RECORD OF CHANGES

CHANGE NUMBER	CHANGE DATE	CHANGE ENTERED BY:			DATE
		PRINTED NAME	RANK/RATE	SIGNATURE	
First issue	May 79	-	-	-	-
CH-1	May 81				
CH-2	Aug 83				
Revised issue	Sep 83	CH-1 and CH-2 included	-	-	-
CH-3	Sep 84				
Revised issue	Jan 86	CH-1. CH-2. CH-3 included	-	-	-
CH-4	Sep 87				
Revised issue	Jun 88	CH-1. CH-2. CH-3 + CH-4 included	-	-	-
Revision	Aug 89	SPCCINST 4441.170A	-	-	-
CH-1	May 95	SPCCINST 4441.170A CH-1	-	-	-
Revision	Dec 07	NAVICPINST 4441.170B			

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A. DEFINING A COORDINATED SHIPBOARD ALLOWANCE LIST (COSAL)

1. A COSAL is an authoritative document which lists:

a. The equipments/components verified by Ships Configuration and Logistics Support Information System (SCLSIS) Configuration Data Manager (CDM) to be installed on a ship to perform its operational mission;

b. The repair parts and special tools required for the operation, overhaul, and repair of equipments/ components;

c. Operating Space Items (OSI) and consumables necessary for the safety, care, and upkeep of the ship itself; and;

d. Aeronautical Equipment. The term aeronautical equipment refers to items for which Naval Inventory Control Point-Philadelphia (NAVICP-P) manages. Also, included are Naval Air Systems Command (NAVAIR) and Space and Naval Warfare Systems Command (SPAWAR) managed end items. These items include but are not limited to the following:

(1) Aircraft Launch and Recovery Equipment (ALRE).

(2) Visual and Optical Landing Aids (VLA/OLA).

(3) Ground Support Equipment (GSE)

(4) Selected Communications Equipment.

Questions concerning the Aeronautical COSAL or NAVICP-P managed equipment can be directed to:

Comanding Officer
ATTN: Code 03411
NAVICP-P
700 Robbins Avenue
Philadelphia PA 19111-5098

2. A COSAL provides both technical and supply information that makes it an Integrated Logistics Support (ILS) document. It is a technical document to the extent that equipment/component/part nomenclatures, operating characteristics, technical manuals, etc., are described in Allowance Parts Lists (APLs) or Allowance Equipage Lists (AELs). It is a supply document inasmuch as it lists the items required to achieve maximum self-supporting capability for an extended period of time.

Information relative to subsistence, recreational equipment, medical material, hydrographic charts, resale clothing, ship's store merchandise, bulk fuels, lubricants, ammunition, small arms, weapons, and night vision equipment will continue to be published in unique lists prepared by the appropriate activity. Since the COSAL provides the ship with basic guidance for determining the items (and quantity of each item) that should be stocked by the supply department or held in the custody of other departments, it is essential that changes be incorporated promptly and properly upon receipt, and that corrective action be taken when it is determined that any part of the COSAL is inaccurate or incomplete.

B. SHIP'S SELECTED RECORDS (SSRs). The COSAL is included in the SSRs. SSRs consist of the ship's drawings, selected record data, and allowance documents. Together,

they contain the complete configuration and logistical profile of a ship. Familiarity with the three types of SSRs below can help the user make the most of the COSAL and the Shipboard Nontactical Automated Data Processing Program II (SNAP II) database.

1. Selected Record Drawings. The drawings illustrate the important features, systems, and arrangements of a particular ship. Two sets of drawings are furnished to each ship.

2. Selected Record Data. Selected record data describes arrangements, equipment, systems, and procedures essential to the operation of a ship. This record library includes such documentation as damage control books, ship information books, system and equipment technical manuals, ship's drawing indices, training aid booklets, and propulsion operating guides. Each ship is given two copies of all selected record data.

3. Allowance Documents. The COSAL recommends which items should be stocked by the supply department or held in the custody of other departments to support the equipment known to be installed on the ship and is in printed form. The computerized SNAP database contains information in the COSAL (plus certain additional information) and may be accessed through the SNAP Ported Systems, Supply and Financial Management (SFM), Maintenance Data Subsystem (MDS), Integrated Logistic Subsystem Modules, SNAP Optimized Organizational Maintenance Management System-Next Generation (OMMS-NG) or the Relational Supply Systems (R Supply).

C. COSAL DEVELOPMENT The COSAL is built from the technical and supply support information developed by many organizations and ultimately stored in the Navy's

central database repository located at Naval Inventory Control Point-Mechanicsburg (NAVICP-M), Mechanicsburg, PA. The key reference mark within the COSAL is the system of APLs and AELs. A COSAL loses its value when it fails to include technical information and repair parts, and equipment allowance information for all of the equipments installed on a ship. Keeping shipboard COSALs current with a ship's current equipment configuration has always been a difficult process. The Fleet's operational readiness depends on the right repair parts, technical manuals and special tools being available when the operator or maintenance personnel need them.

1. Initial Provisioning Cycle. The Navy is constantly procuring new systems, equipments, and components. These must be supported by items such as repair parts, special tools, test equipment, and support equipment. The two-phase process of provisioning provides this support for an initial period of service. In the first phase, the requirements are determined and then documented by the publication of an APL. During the second phase, the required support items are procured and delivered. The responsibility for the provisioning process is primarily carried out by the Hardware Systems Commands (HSC). The "field agents" who play a major role in the provisioning process are NAVICP-M, Naval Sea Logistics Center (NSLC), Naval Surface Warfare Center, Carderock Division, Ships Systems Engineering Station (NSWCCD-SSES), and various In-Service Engineering Agents (ISEAs). These commands develop the requisite APLs and AELs. APLs and AELs are the fundamental products of the provisioning process. These outputs are the heart of the COSAL, which, in turn, is the key document supporting the shipboard maintenance effort. Properly used and maintained, the COSAL will provide shipboard personnel the ability to identify and obtain

the repair parts and other material required to repair and maintain their equipment. Naval Sea Systems Command (NAVSEA) Technical Specification 9090-1500 Provisioning Allowance, and Fitting Out Support (PAFOS) Manual Chapter 4.13 provides APL worthiness guidance.

2. Ship Configuration and Logistics Support Information System (SCLSIS)/ Weapon Systems File (WSF).

a. The Navy's central configuration database repository is comprised of two parts, the SCLSIS and the WSF. Together, they contain the technical characteristics and logistics data on all equipments in the Navy's inventory as well as the maintenance worthy repair parts and equipage associated with that equipment. SCLSIS contains configuration, logistics, and alteration records, while the WSF is composed of supply support information.

b. SCLSIS has been implemented as the Navy's shipboard configuration and logistics management system. NAVSEA Technical Specification 9090-700C provides the requirements for SCLSIS. This data resides in the Configuration Data Managers Database-Open Architecture (CDMD-OA) at Naval Sea Logistics Center Detachment Pacific (NSLC-DETPAC). SCLSIS accommodates all types of logistic support (e.g., Planned Maintenance System (PMS), Maintenance Index Page (MIP), Technical Manuals (TM), etc.) requirements vice only supply support. Its primary purpose is to ensure that the Navy's central repository of configuration and logistics accurately reflects the current and planned ships' configuration. Changes to the CDMD-OA can result in new or adjusted supply support for the ship. This supply support information is forwarded via the COSAL in ACCESS (CIA) for non-SNAP ships and monthly Automated Shore Interface (ASI) for SNAP ships.

c. Fleet support personnel and the shore maintenance and logistics support community often need to know a ship's equipment configuration. This is important to successfully plan maintenance availabilities, forecast equipment training, and build battle groups. Again, CDMD-OA contains configuration and expanded logistics information to facilitate these efforts. Updating CDMD-OA will update the WSF as well as trigger updates to ships' COSALs and SNAP databases.

d. CDMD-OA is maintained by a NAVSEA assigned Configuration Data Manager (CDM). The CDM, assigned by ship class, may be either a Navy activity or a private yard. Every ship class in the Navy has a CDM, however, a CDM may be responsible for more than one ship class. Only the assigned CDM may change the configuration information in SCLSIS for their ships. This makes them accountable for the accuracy and quality of the information, a key ingredient to the success of SCLSIS.

e. The Fleet plays an active role by notifying the CDMs via an OPNAV 4790/CK when its COSAL or SNAP equipment files do not accurately reflect the ship's equipment configuration. Changes made to CDMD-OA and WSF result in COSAL/SNAP changes.

f. In the WSF, technical characteristics help identify the equipment to its Repairable Identification Code (RIC). Each equipment and its subcomponents have unique RICs. The RIC is the identification number on the equipment's associated APL. Technical characteristics listed on each APL describe the form, fit, and function of an equipment. For example, it cites the equipment's associated drawing number and gives its operating characteristics such as speeds and pressures. It also describes the manufacturer and manufacturer's part number, predominant technical

manual and plan number, additional manual numbers, and other information needed to procure or to maintain the item.

g. The WSF also contains similar information on all repair parts needed to maintain the equipment. Typical data found in the WSF includes the maintenance philosophy for each equipment/component, expected failure rates, replacement rates, application codes, shipboard locations, related APL or AEL number, quantity per application, installation status codes, and other logistic information. The WSF also accesses many supporting files that contain such supply support information as stock numbers, unit prices, units of issue, sources of supply, expected procurement lead times, supply system inventory levels, and part number to stock number cross reference information. NAVICP-M retains authority to make changes to other non-configuration files and to update configuration files from CDM inputs.

3. Allowance Parts List (APL). APLs are prepared using information found in the WSF. Part II, Section A of a COSAL contains all of the APLs associated with a ship. APLs list both the technical characteristics of a particular piece of equipment and its logistic and supply information. APLs also identify all maintenance significant repair parts associated with the equipment. Each repair part listed is expected to fail during normal operation and is a potential allowance item. However, only those items with sufficiently high predicted failure rates or actual replacement rates, or those with technical overrides assigned (Planned Maintenance, Safety, etc) will normally be authorized as On Board Repair Parts (OBRPs).

4. Allowance Equipage List (AEL). AELs are also prepared using information found in the WSF. Part II, Section C of a COSAL contains all of the AELs associated with a ship. AELs describe a system, such as damage

control for surface combatants, supported by a range of OSIs. AELs also identify required allowances for such general category material as tools and equipage that are retained in the custody of the operating department. Items on some AELs may be stocked as Storeroom Items (SRI) for control purposes. In some cases, repair parts, which are intended to be located in the same compartment as the installed equipment, are found in APLs instead of AELs.

D. ALLOWANCE COMPUTATION. To identify a ship's authorized allowances, all the repair parts listed on installed equipment APLs that are within the maintenance capability of the ship are passed through a computation process. There are 4 Chief of Naval Operations (CNO) approved math models currently used in the COSAL/Coordinated Shorebase Allowance List (COSBAL) allowance development process. The basic models are FLEET LOGISTICS SUPPORT IMPROVEMENT PROGRAM (FLSIP), MODIFIED-FLEET LOGISTICS SUPPORT IMPROVEMENT PROGRAM (MOD-FLSIP), CONVENTIONAL and TRIDENT (For more detailed information on TRIDENT allowance computation, see NAVICPMECHINST 4441.176). The Insurance Cut Point, used in conjunction with the computation method, establishes the lowest usage rate level at which an item will be carried as an insurance item. (e.g. FLSIP .50 ship range is 0.125 to 3.99). The **most common computation** methods are described below:

1. Price Sensitive FLSIP .5 Plus (PSF .5P). In April 2005 CNO approved the following modifications to the existing FLSIP .5 Plus (F.5P) which is now known as Price Sensitive FLSIP .5P (PSF .5P).

a. A simplified version of the FLSIP formula used to establish the foundation of ship allowances is as follows:

$$UR = \frac{POP \times BRF}{4}$$

UR = Usage Rate. An estimate of how often a part will be needed in each 90-day period.

POP = Population of the part on board the ship (i.e., installed population)

BRF = Best Replacement Factor. BRF is the actual Fleet reported usage. The BRF is reviewed and updated annually to reflect the latter as reported by fleet users and recorded in the 3-M system. Adjustments to the BRF can result in repair parts being added or deleted in subsequent allowance products. Establishing and updating BRFs are engineering functions under the cognizance of NSLC, NAVICP-M, and Navy Supply Information Systems Activity (NAVSISA). The BRF is the primary variable in the FLSIP model.

4 = Dividing by 4 determines the expected usage for a 90 day period (1 quarter) which is the CNO established stocking level duration.

If UR is equal to or greater than 0.50, an item is carried as an OBRP. If UR for a given part is less than .125 (.5÷4), these items may be excluded. The excluded items are subsequently passed through the "PLUS" part of the model.

Exceptions: There are certain Technical Overrides (TORs) and underrides that can cause a part to be carried or not carried regardless of the value of the UR. In addition, Planned Maintenance Requirement (PMR) for 90-day usage will also override the allowance computation.

b. This spare parts allowance model significantly reduces OBRPs by removing items that cost \$1,000 or more by sparing them at 4.0 (four demands in a one year period). Items costing less than \$1,000 will remain spared at .5 FLSIP (one demand in a two year period). Readiness Based Sparing (RBS), Planned Maintenance Systems (PMS), Safety Overrides and Operating Space Items (OSI) will remain unaffected.

c. The Plus portion of the model eliminates C2 Casualty Reports (CASREPs) along with any Maintenance, Material and Management (3-M) ADDBACK information greater than \$ 1,000. The Price Sensitive variant will expand CASREP ADDBACKs by changing the business rules to 1 hit for C3/C4 CASREPs in a ship class/group over a two year period for items less than \$10K. This ensures items less than \$10K will be allowed and assigned a 'Y' Allowance Derivation Code (ADC). The flow chart in Figure 1-A outlines the process and the 3-M business rules on Figure 1-B apply.

2. FLSIP .5 Plus (F.5P).

a. This spare parts allowance model significantly reduces both the cost and count of SRI removing low usage insurance spares while adding ship flight/class tailored 3-M and CASREP items. Additionally, since there is no impact on either OSI or override allowances which are established to provide a fixed minimum level of support, RBS is completely compatible with the F.5P COSAL allowance model. Items identified by the RBS optimization process are automatically allowed via RBS overrides in the F.5P COSAL model.

b. A simplified version of the FLSIP formula used to establish the foundation of ship allowances is as follows:

$$UR = \frac{POP \times BRF}{4}$$

UR = Usage Rate. An estimate of how often a part will be needed in each 90-day period.

POP = Population of the part on board the ship (i.e., installed population)

BRF = Best Replacement Factor. BRF is the actual Fleet reported usage. The BRF is reviewed and updated annually to reflect the latter as reported by fleet users and recorded in the 3-M system. Adjustments to the BRF can result in repair parts being added or deleted in subsequent allowance products. Establishing and updating BRFs are engineering functions under the cognizance of NSLC, NAVICP-M, and Navy Supply Information Systems Activity (NAVSISA). The BRF is the primary variable in the FLSIP model.

4 = Dividing by 4 determines the expected usage for a 90 day period which is the CNO established stocking level duration.

If UR is equal to or greater than 0.50, an item is carried as an OBRP. If UR for a given part is less than .125 (.5÷4), these items may be excluded.

Exceptions: There are certain Technical Overrides (TORs) and underrides that can cause a part to be carried or not carried regardless of the value of the UR. In addition, Planned Maintenance Requirement (PMR) for 90-day usage will also override the allowance computation.

c. The excluded items are subsequently passed through the “PLUS” part of the model. The “PLUS” enhancement involves a draw down of 3-M and CASREP demand data. This data is determined from a group of ships with configuration that closely matches the ship for which the COSAL is being produced. The ship itself is included in the grouping. The ship groupings may include an entire ship class, a flight of ships or any other grouping with a class. If the item was excluded from normal .5 FLSIP calculation, the “PLUS” part of the model is applied. Items that have shown sufficient 3-M and CASREP demand are included as “addbacks” to enhance the ship’s COSAL/SNAP database allowances. If sufficient demand is recorded, based on established business rules (discussed below), then one Minimum Replacement Unit (MRU) is “added back” as an enhancement to the basic allowance. It was during the development phase of .5F+ that analysis of 3-M usage patterns resulted in the establishment of four different business rules for “add back” determination. Essentially, all ships fall under one of these four rules. Classes with a low population of ships (CV and CVN) or those that have “stand alone” mission (SSNs) receive “addbacks” based on the 2/3 rule. The 2/3 rule translates into: either two or more CASREP hits on at least two ships over two years or three or more 3-M hits on at least two ships over four years. Similarly, classes with a high population of ships (FFGs) receive “addbacks” based on the 3/8 rule or on the 2/6 rule. Additionally, Marine Units use a 2/8 rule.

3. .25 FLSIP. .25 FLSIP is a demand-based model. Customers such as Shore activities use this model to determine their allowances. In general, a repair part must have a Navy-wide predicted or actual failure rate of one or more in a four-year period to compute for allowance. A simplified version of the FLSIP formula is the following equation:

$$UR = \frac{POP \times BRF}{4}$$

UR = Usage Rate. An estimate of how often a part will be needed in each 90-day period.

POP = Population of the part on board the ship (i.e., installed population)

BRF = Best Replacement Factor. BRF is the actual Fleet reported usage. The BRF is reviewed and updated annually to reflect the latter as reported by fleet users and recorded in the 3-M system. Adjustments to the BRF can result in repair parts being added or deleted in subsequent allowance products. Establishing and updating BRFs are engineering functions under the cognizance of NSLC, NAVICP-M, and Navy Supply Information Systems Activity (NAVSISA). The BRF is the primary variable in the FLSIP model.

4 = Dividing by 4 determines the expected usage for a 90 day period which is the CNO established stocking level duration.

If the UR is less than .0625 (.25÷4) for any given part, the part is not carried.

If the UR is equal to or greater than .0625 but less than 1.000, the item will be carried as an insurance item (usually in the quantity of 1 MRU) provided the piece part is vital to the operation of the equipment as indicated by a Military Essentiality Code (MEC) of 1.

If the UR is equal to or greater than 1.000, the item is considered a demand based item. It will be carried in a

computed quantity determined by the expected demand level in a quantity usually greater than 1 each.

Exceptions: There are certain Technical Overrides (TORs) and underrides that can cause a part to be carried or not carried regardless of the value of the UR. In addition, Planned Maintenance Requirement (PMR) for 90-day usage will also override the allowance computation.

4. MOD-FLSIP. MOD-FLSIP is a demand based model which improves support for equipments/systems essential to the primary mission of the ship. The model establishes a two-tier stockage objective threshold for insurance items from .25 UR to .10 UR, (i.e. one replacement expected within four years to ten years). In addition, the MRU for insurance items with a predictable demand of two or more, but less than four per year, is increased from 1 to 2. Based on a comparison between FLSIP and MOD-FLSIP, MOD-FLSIP substantially increases the range and depth of material available to support mission critical or primary equipments/systems. This is primarily used by Foreign Military Sales (FMS).

5. CONVENTIONAL. Parts are added to allowance based on codes that are manually assigned and maintained on an equipment basis. The allowance quantities for Hull, Mechanical, and Electrical equipment (HM&E) repair parts are determined using Allowance Factor Codes (AFC). NOTE: The conventional method does not directly consider a usage rate or MEC in determining the allowance.

E. COSAL FORMATS.

1. COSAL in Access (CIA). CIA is COSAL on Compact Disk (CD). COSALs are Ship/Shore tailored and built around the APLs/AELs identified to support their installed

equipments/systems. There are several different types of COSALs produced, including HM&E, Ordnance, Electronic equipments, Nuclear Reactor Plant, Strategic Weapon Systems, and Nuclear Weapons. A COSAL is comprised of an Introduction, Summary Of APLs/AELs (SOAPL), and three parts. Part I offers indices to find the appropriate APL or AEL. Part II contains the APLs and AELs. Part III identifies those parts that are allowed on board based upon the authorized allowance model.

a. Introduction. The COSAL Introduction describes the COSAL data elements, notes, and codes. It contains samples of each page type and is a valuable reference for finding information throughout the COSAL.

b. SOAPL. The SOAPL lists non-supported and full supply support APLs/AELs.

c. Part I. COSAL Part I contains the following indexes and summaries:

- Section A - Equipment Nomenclature Sequence
- Section B - Service Application Code (SAC) Sequence
- Section C - APL/AEL to Equipment Identification Code (EIC) to Automated Integrated Language System Identification Number (AILSIN)/Functional Group Code (FGC)
- Section D - EIC to APL/AEL
- Section E - AILSIN/FGC to APL/AEL

Note: Equipments that lack full supply support APLs/ AELs will reflect a Logistic Support Status Code (LSSC) to explain why the equipment is not supported.

d. Part II. COSAL Part II is divided into the following sections:

- Section A – APLs – HM&E, Ordnance (ORD), and Electronic (ELEX)
- Section B – APLs – Circuit Symbol Numbers (CSN)
(resident on GDAPL only)
- Section C – AELs – HM&E, ORD, and ELEX

e. Part III. COSAL Part III contains up to six sections:

- Section A - SRI, Stock Number Sequence List (SNSL)
- Section B - OSI, SNSL
- Section CF - Maintenance Assistance Modules (MAMs) SNSL
- Section D - Alternate Number Cross Reference to National Stock Number (NSN)
- *Section E - General Use Consumable List (GUCL)
- Section F - Forms and Publications
(<http://forms.daps.dla.mil>)

*NOTE: The GUCL is produced only for New Construction ships and is maintained by the ship and Fitting Out Supply Assistance Team (FOSAT). Changes are given to NAVICP-M for inclusion in subsequent hulls.

2. Automated COSAL. There are two types of Automated COSAL systems: Ported & Micro SNAP and the Naval Tactical Command Support System (NTCSS) Optimized SNAP Application.

a. Ported and Micro SNAP. The Ported and Micro SNAP database contains the basic APL and AEL

information in its COSAL File (COS) . While the hardcopy user must use Part I as an index to find the right allowance list, the SNAP user utilizes the onboard computer terminal to find the desired information and displays it on the computer screen or prints it on paper.

(1) In SNAP, the ship's Equipment File (EQU) contains a summary of the equipments installed on the ship. The COS file contains the APL and AEL information related to each equipment or system. The Stock Record File (SRF) contains the authorized allowances of repair parts and the present inventory. The Cross Reference File (XRF) contains alternate stock number information similar to that found in Part III, Section D of a hardcopy COSAL. These files are accessed and maintained through either the Supply Financial Module (SFM) or the Maintenance Data Subsystem (MDS). For instance, Fleet COSAL Feedback Reports (FCFBR) and Configuration Change Reports (CCR) (OPNAV 4790/CK) are prepared through the MDS.

(2) SNAP uses separate COSAL record types to subdivide the SRF. The following list notes the relationship of these record types to the hardcopy COSAL formats:

TYPE	SNAP SRF COSAL TYPE CODE	DESCRIPTION	RELATED COSAL SECTION
HME/O	1 or C	Storeroom Items for Hull, Mechanical, Electrical, Ordnance, & Electronics	Part III, Section A
MAM	3	Maintenance Assistance Modules	Part III, Section CF
Q	2	Nuclear	Reactor Plant COSAL

SW	5	Strategic Weapons	Strategic Weapons Systems COSAL
NW	6	Nuclear Weapons	Nuclear Weapons Q COSAL
BH	7	Boat Haven	Boat Haven COSAL
**OSI	8	Operating Space Item	Part III, Section B

** Not currently included as part of new SNAP databases or ASI process.

(3) Ships employing SNAP or similar systems (Organizational Maintenance Management System (OMMS) 3.1) receive the baseline COSAL and COSAL updates in an automated format. Some ships also receive the hardcopy COSAL for backup purposes. Automated COSAL updates are sent to the ship on a monthly basis via the ASI and contain the following records:

SNAP Record Types	
A1	Configuration Data
A2	Alteration Data
B	APL Header
C	Piece Part Data
D	APL Supersession
E	Allowances
F1	NIIN (National Item Identification Number) to Alternate Reference Number
G1	NSN Supersession
G2	Interchangeable/Substitutable NSN
H	Logistics

(4) The automated COSAL update, or ASI, is triggered by equipment configuration and logistics support updates to the CDMD-OA and APL/AEL updates generated at NAVICP-M. Figure 1-C outlines the ASI production flow.

b. NTCSS Optimized SNAP Application.

(1) The optimized SNAP system contains OMMS-NG and R Supply applications under the NTCSS software suite. This software has a Graphical User Interface (GUI) that is more user friendly than the menu driven Ported & Micro SNAP systems.

(2) OMMS-NG provides access to maintenance information needed to ensure ship readiness. It contains information on configuration items, work candidates (formerly 2-Kilos) and ordering parts for equipment. OMMS-NG is similar to the MDS on the Ported & Micro SNAP systems.

(3) R Supply provides access to ordering, receiving, and issuing necessary supplies and material; maintaining financial records and reconciling supply, inventory and financial records with the shore infrastructure. R Supply is similar to the SFM on the Ported & Micro SNAP systems.

(4) The NTCSS optimized application is managed by the NTCSS Program Directorate, SPAWAR, Chesapeake, VA.

F. CORRECTING THE COSAL.

1. The ship's SNAP/COSAL and other selected records can quickly become out of date if the mix of equipments on a ship changes. This mix is called the ship's configuration.

The SNAP/COSAL loses its value if it does not list repair parts, spares, and equipment needed to maintain all of the equipments on a ship. SCLSS is the Navy's system for processing HM&E, Ordnance, & Electronics equipment configuration changes including the upkeep of the CDMD-OA and WSF. When combined with ASI or CIA, it becomes a closed loop system, which also provides updated allowance, logistics, and technical data to ships. Ships can report equipment changes by submitting a CCR (OPNAV 4790/CK). This is an automated function under the Ported or Micro SNAP MDS. For example, during an overseas tender availability, a tender may replace a ship's failed lube oil pump with a pump of similar design, but built by a different manufacturer. The receiving ship's SNAP/COSAL database will now be out of date. The ship will not have the correct repair parts on board, and the technical library may not have the correct technical publications to support the new pump. If the receiving ship submits an OPNAV 4790/CK, the WSF will be corrected, and the ship will receive changes to its SNAP/COSAL. The appropriate form for "Q" COSAL equipments is the Reactor Plant Configuration Change Report (RPCCR). For Strategic Weapon Systems (SWS) COSAL equipment, a NAVSUP 1220-1 CCR should be used.

2. Ships can also use the FCFBR or the Allowance Change Request (ACR) to notify NAVICP-M of COSAL errors or to recommend repair parts and equipment allowance changes. A FCFBR can be submitted via the web at <http://www.anchordesk.navy.mil>, go to Anchor Desk, go to Access the Portal, Submit a Deficiency Report. For instance, a PMS card may call for a weekly replacement of an air filter. The COSAL may only cite an allowance for three air filters because the manufacturer had recommended that the filter be changed each month. If adequate PMS exists, the ship should take automatic action to increase their

allowance to the PMS quantity. NSLC/NAVICP-M should be alerted of the deficiency with a FCFBR and a copy of the Maintenance Requirement Card (MRC) for the PMS. This will alert NAVICP-M and the engineering community to review the PMS requirements for the filter resulting in either a change to the filter replacement frequency or in an increase in the ship's allowance. Problems identified by one ship are often faced by other ships throughout the Fleet using similar equipment. Therefore, a FCFBR or ACR submitted by one ship may affect PMS and/or COSAL requirements for many ships.

3. COSALs may also become out-of-date as new information about the characteristics and reliability of an equipment becomes known. For instance, if 3-M data reveals that a bearing failure may seriously damage a major mechanical assembly, NAVSEA may rewrite the PMS requirements for the assembly. Maintenance personnel may be directed to replace the bearing at a greater than planned frequency per hours of operation. In turn, NAVICP-M will revise the APL to reflect the change in the WSF.

4. The approved change to the WSF will generate a "Pen and Ink" change to the COSAL. The change may increase the allowance for the bearing in those ships that have the assembly installed. For Non-SNAP ships, the CIA maintenance will provide the allowance change between overhauls. SNAP ships receive COSAL changes once a month from ASI. Loading the ASI into the SNAP system updates all of the affected supply support and technical information records.

G. ALLOWANCE PRODUCTS - POLICY AND PROCEDURE FOR DISTRIBUTION AND REQUISITION.

1. General Distribution APL/AEL Bank (GDAPL). Every APL/AEL developed and published by the Navy is displayed

on Compact Disk Read Only Memory (CD-ROM) except those APLs/AELs that do not have any registered users within the last four years. The CD-ROM currently contains over 365,000 APLs and about 13,000 AELs. The GDAPL offers a variety of access and retrieval capabilities which provide a convenient and efficient means for obtaining data previously available on microfiche. The NSN/NICN (Navy Item Control Number) to RIC and Master Index of APLs/AELs (MIAPL) data can be obtained in the GDAPL CD-ROM therefore, it will no longer be available as a separate product. By entering your Unit Identification Code (UIC) in the GDAPL you can obtain allowance data for your computation model. Keep in mind when accessing the allowance information (parts detail) the quantity that is reflected in the column may not match the quantity displayed on your SNSL/SRF.

2. Revised policy and procedures were distributed to all active customers on 26 Oct 1993. Information and guidance from those references are printed below.

a. Products. The following CD-ROM products are available from NAVICP-M. All products are provided on CD-ROM.

<u>Title</u>	<u>Cost per set</u>
General Distribution Allowance Parts List (GDAPL)	\$200.00
- HM&E APLs/AELs	
- Ordnance APLs/AELs	
- Mobile Equipment (Material Handling Equipment) APLs/AELs	
- Electronic APLs/AELs	
- Circuit Symbol Number (CSN)	
- TRIDENT APLs/AELs	
- Master Index of APLs (MIAPL)	
- Cancellation and Supersession Record	
- NSN/NIIN RIC Information	
Nuclear Reactor Program (NRP) APLs/AELs	\$40.00

(Provided by Code 87)

Strategic Systems Program (SSP)	\$15.00
Cross Reference File (CRF) (Part Number/CAGE (Commercial and Government Entity) to NSN)	\$40.00
- Permanent Navy Item Control Number (P-NICN) Cross Reference	
- SSN Valve mark List	
- Service Application Code (SAC)	\$40.00
Formerly Ships History File (SHF)	\$80.00
TYCOM COSALS	\$100.00

b. Defense Automated Printing Services (DAPS) Philadelphia maintains the CD-ROM requirements for all active customers. Products can be ordered via the web at <https://forms.daps.dla.mil>. The ship or activity UIC will serve as the primary locator code in the addressee/requirements file. Customers should refer to their UIC when making payments or inquiries about their requirements.

c. In the Remarks Section of these forms print "PAYMENT FOR CD-ROM PRODUCTS" and list your UIC.

3. The Allowance and Configuration Management Division, Code 8543, is responsible for publishing COSALS and maintaining the highest level of quality for the data published or released in data set formats. Your questions and comments are welcomed and should be directed to the following organizations:

Director, Allowance and Configuration Management
Division, Code 8543
DSN 430-2893

Allowance Project Management Branch, Code 85432
DSN 430-3631

Configuration Management Branch, Code 85433
DSN 430-6717

H. SUMMARY. The processes addressed above establish a baseline SNAP/COSAL. The SNAP/COSAL is dynamic and must be constantly updated to reflect changing equipment configuration onboard ship. Errors in data contained in CDMD-OA/WSF will be reflected as errors in the SNAP/COSAL. It is with the assistance and diligence of shipboard technical and supply personnel that these errors can be detected and subsequently corrected. It is the technician's responsibility to ensure the SNAP/COSAL supports all equipments for which he has maintenance responsibility. It is the storekeeper's responsibility to ensure errors detected by the technician are corrected and the necessary repair parts procured and documented in the SNAP/COSAL. Failure to acquire the correct supply system parts may result in reduction in operational availability, risk of greater damage to an equipment, possible loss of equipment or risk of CASREP. The SNAP/COSAL is the bridge by which the part number contained in the ship's drawing or technical manual is linked to a part carried by the supply department. Procuring parts without concurrently updating all copies of the SNAP/COSAL often results in a situation whereby parts are available but cannot be identified by the technician.

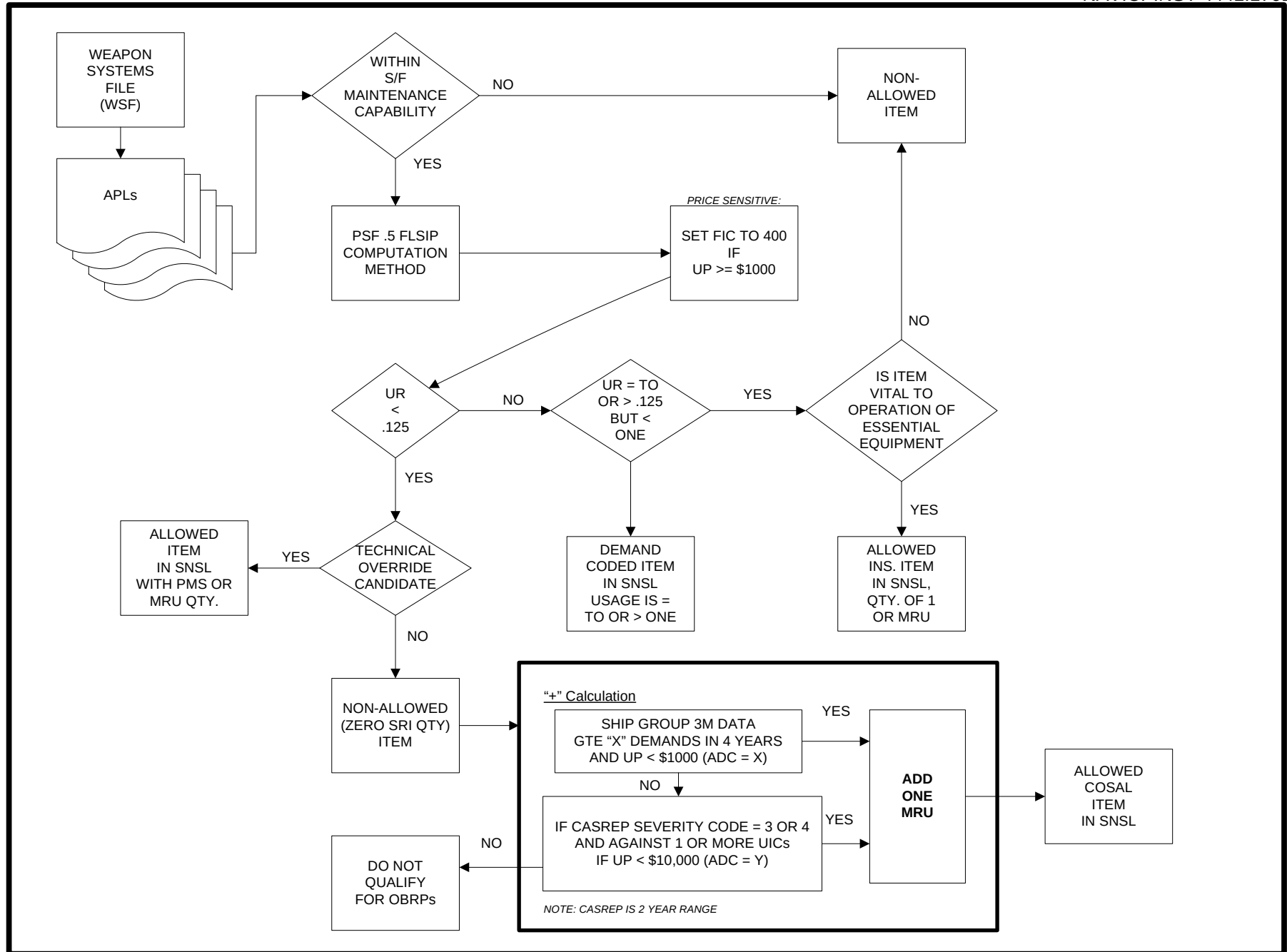


Figure 1A Flow Chart for Price Sensitive FLSIP .5 Plus Computation Method
1-15

Business Rules

Objective: Tailor ship allowance to demand based (3-M) items with a unit price LT \$1,000.

<u>Rule</u>	<u>Definition</u>	<u>Application</u>
3	3 – 3-M hits on 2 ships in 4 years	Small Groupings Stand Alone Mission (AS, ARS, CV, CVN, CG, LHA, LHD, LPD 17CL, LSD, SSN)
8	8 – 3-M hits on 2 ships in 4 years	Large Groupings (DDG 72-112, FFG, LPD)
6	6 – 3-M hits on 2 ships in 4 years	MCM MHC
8	8 – 3-M hits on 2 ships in 4 years	USMC Only
16	16 - 3-M hits on 2 ships in 4 years	Large Groupings (DDG 51-71)

CASREP Add-on must have 1 C3/C4 CASREP within 2 years on at least 1 ship in the class/group and unit price is LT \$10K.

Figure 1-B Business Rules for Price Sensitive FLSIP.5 Plus (PSF.5P)

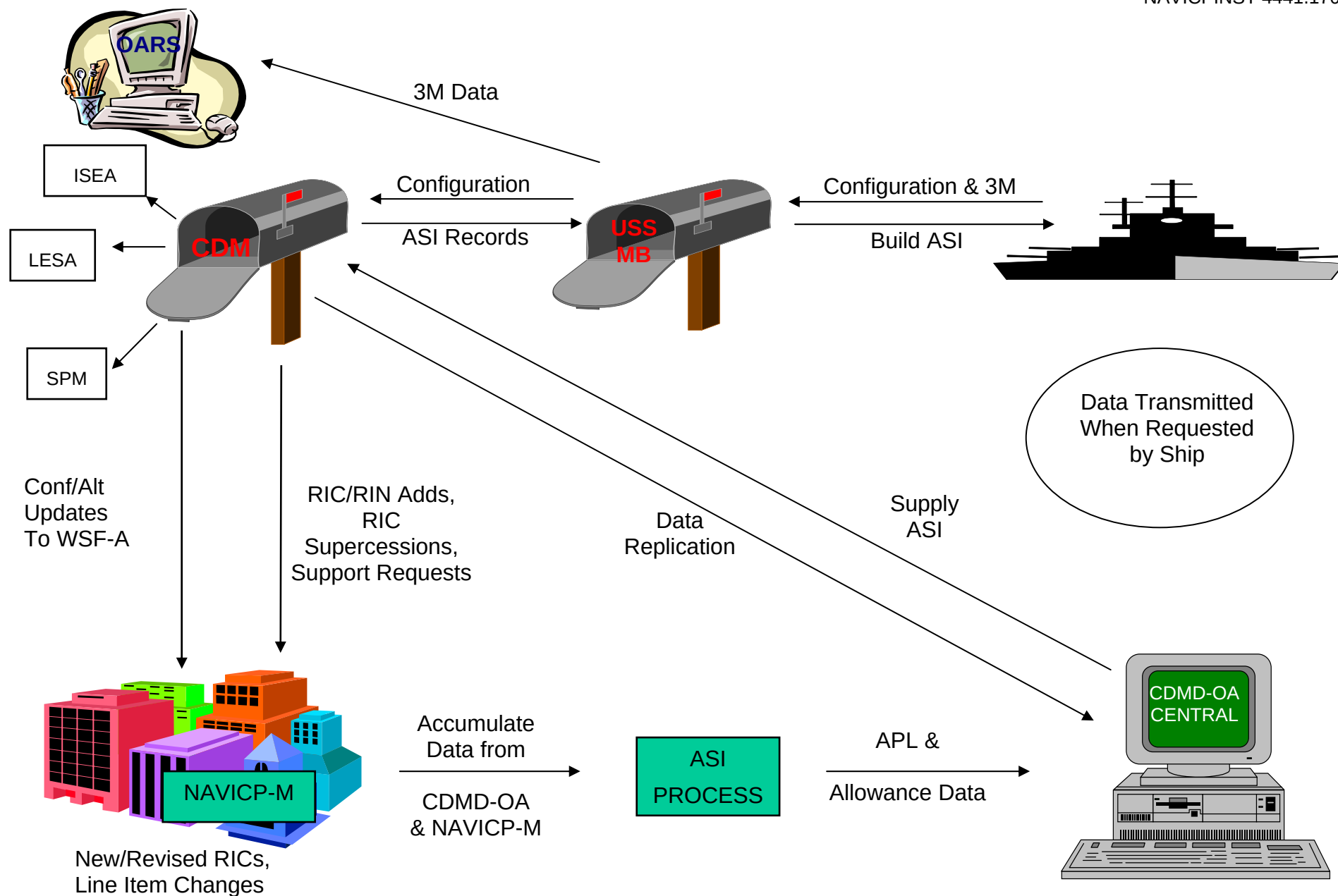


Figure 1-C ASI Production Flow Chart

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A. MATERIAL COGNIZANCE.

1. Introduction. There are over four million supply items in the Department of Defense (DOD) supply system. The Navy supply system alone stocks over one million items. For proper requisitioning of a specific item from an activity ashore or from a unit of the Combat Logistic Force (CLF), and for that activity to provide the item requested, a common language has been developed, the Federal Catalog System (FCS). The instructions in this chapter provide a description of the material classification system of the Navy and the sources of information for material identification and procurement. The glossary provides definitions of terms used throughout the Navy in identifying, classifying, and inspecting naval material.

2. Cognizance of Navy Material.

a. Cognizance Symbol. A cognizance symbol is a two-position numeric-alpha code that identifies a stock numbered item with the Navy inventory manager of the specific category of material in which the item is included, and also indicates whether the material is managed as Navy Stock Account (NSA), NSA funded Depot Level Repairable (DLR), Appropriations Purchase Account (APA), or nonstore account. Examples:

NSA--9N, 9G, 9Z (9's except 9B)
 APA--2Z (even numbers except 8A)
 NSA Funded DLR--7H, 7G, 7E, 7Z (odd numbers)
 Nonstores--Zero as first digit (i.e., 01).

b. Aviation Equipments. The Aircraft Launch and Recovery Equipment (ALRE) supported by Naval Inventory Control Point-Philadelphia (NAVICP-P) are aircraft carrier/shore site installed systems: catapult, arresting gear

and jet blast deflectors. Visual Landing Aids (VLA)/Optical Landing Aids (OLA) and the remaining equipments can be installed on air-capable and aviation ships and/or shore sites. Aviation equipments have Cognizance Codes (COGs) of 1R, 4R, 5R, 6R, and 7R. Naval Air System Command (NAVAIR) or Space and Naval Warfare Systems Command (SPAWAR) have COGs of 2W or 4M.

c. The Navy Stock Account (NSA). The NSA is a stores account in which material financed by the Navy Stock Fund (NSF) is held by a Navy ashore supply activity or by a Special Accounting Class 207/224 ship pending issue and charge to an end use activity. The NSF is a "revolving fund" which means that when material held in NSA (stores account 51000) is "sold" to an end-use customer, the amount charged to the operating budget that finances the customer's operations is automatically credited to the NSF, thereby ensuring constant availability of funds for continuously purchasing more NSA materials. The NSA is comprised of the more commonly used items that experience relatively frequent demands. They are considered to be "expense" type items that are chargeable to the ship's Operating Target (OPTAR). The majority of Navy owned items in the Navy supply system are carried in the NSA.

d. NSA Funded Depot Level Repairable (DLR). Stock funded DLRs are secondary or support items that are managed by NAVICP. This system was designed to improve availability and flexibility in budget forecasting, and to provide an incentive for the prompt return of Not Ready For Issue (NRFI) carcasses. Navy stock-funded DLRs feature a "two tiered" price system. Customers are billed either the standard price based on procurement cost or the net price (based on repair cost) if the carcass is turned in. If the carcass is not turned in within established time frames,

customers are billed the difference between the net and the standard price. Tracking of carcasses returned to the supply system is a major element of stock-funded DLRs. Expeditious turn in of carcasses reduces the dollar investment in repairable items in inventory by providing the supply system with NRFI assets which can be inducted into repair.

e. The Appropriation Purchase Account (APA). The APA is a stores account in which material financed by an appropriation is held (in stores account 52000) by an ashore supply activity pending issue and a "statistical" charge to an end-use activity. Unlike the NSA, APA materials are immediately charged to an appropriation at the time of purchase, and the "statistical" charges of issue do NOT generate any credit to the appropriation that financed the procurement. APA items generally are considered to be "investment" type items which are not chargeable to the ship's OPTAR. Because of their significant cost and relatively infrequent demand, APA items are stocked by the supply system in limited quantities, and therefore, must be accorded special management attention by each echelon of supply.

3. Material Identification Aboard Ship: Proper item identification is essential to the receipt of correct material. It is also important to have a clear understanding of the terminology used in material identification. A few of the more common terms relevant to various types of materials are defined in this section.

a. Material. The term "material" is used to designate supplies, repair parts, equipment, and equipage used in the Navy.

b. Equipment. The term "equipment" refers to any functional unit of hull, mechanical, and electrical, ordnance, or electronic type material which is operated individually or as a component of a system or subsystem and which is identified by an Allowance Parts List (APL), Allowance Equipage List (AEL), or Allowance Component List (ACL) number or similar designation.

c. Support Equipment. The term "support equipment" refers to equipment such as test equipment, fixtures, hand tools, etc., required for the maintenance, assembly, disassembly, overhaul, repair, and test or check of the end item.

d. Equipment Division.

(1) General. The standard terms outlined in the following subparagraphs (2-6) describe the breakdown of electrical, electronic, mechanical, pneumatic, and hydraulic military equipment.

(2) Part. The term "part" refers to one piece or two or more pieces joined together which normally are not subject to disassembly without destruction of the designed use e.g., outer front wheel bearing of 3/4 ton truck, electron tube, composition resistor, screw, gear, micro capacitor, audio transformer, milling cutter.

(3) Subassembly. The term "subassembly" refers to two or more parts which form a portion of an assembly or a unit replaceable as a whole, but have a part or parts which are individually replaceable e.g., gun mount stand, window sash, recoil mechanism, floating piston, telephone dial, terminal board with mounted parts.

(4) Assembly. The term "assembly" refers to a number of parts or subassemblies or any combination thereof joined to perform a specific function e.g., power shovel front, fan assembly, audio frequency amplifier. The distinction between an assembly and a subassembly is not always exact.

(5) Next Higher Assembly (NHA). When the source Code "XA" appears on an APL/AEL, it indicates that the failed part is neither procured nor stocked and the "next higher assembly" must be requested in order to replace the failed part. For example, an individual spring is not stocked, but it is included in the "spring assembly" which is an allowed repair part.

(6) Unit. The term "unit" refers to an assembly or any combination of parts, subassemblies, and assemblies mounted together and normally capable of independent operation in a variety of situations e.g., hydraulic jack, electric motor, electric generator, radio receiver. The size of an item is a consideration in some cases. An electric motor for a clock may be considered as a unit inasmuch as it is not normally subject to disassembly.

(7) Group. The term "group" refers to a collection of units, assemblies, or subassemblies and is a subdivision of a set or system, but is not capable of performing a complete operational function e.g., antenna group, indicator group.

e. Equipage.

(1) General. The term "equipage" refers to those items that require management control due to any one or a combination of high unit cost, vulnerability to pilferage,

and/or essentiality to the ship's mission. Equipage does not encompass installed mechanical, electrical, ordnance, or electronic equipments, components, or systems. Equipage items generally are identifiable to end-use applications on board ships to the extent that an allowed quantity of the item can be and is determined on an individual ship basis. Chargeable items of equipage are identified in procurement, receipt, and consumption documents by the letter "E" in the second position of the applicable fund code.

(2) Controlled Equipage. The term "controlled equipage" refers to those items of equipage that require special management control because the material is either essential for the protection of life or relatively valuable and easily converted to personal use. Controlled equipage e.g., life preservers, gas masks, binoculars, and firearms generally is carried on board in allowance quantities only and requires special inventory control in accordance with NAVSUP PUB 485.

(3) Equipment and Equipage Replacement funded by Type Commander (TYCOM) as Controlled Equipage. Durable, high priced and essential items of equipment and equipage not designated as controlled equipage normally are replaced only during a ship's regular overhaul. Replacement of such items e.g., anchors, shots of chain, chain stoppers, binoculars, pylorus and laundry equipment when accomplished during a regular overhaul are chargeable to overhaul funds. The end user is responsible for replacement of such items between overhauls. An OPTAR augment may be requested from the TYCOM if additional funds are required.

f. Repair Part. The term "repair part" refers to any item including modules and consumable type materials

which has an equipment application and appears in an APL, Stock Number Sequence List (SNSL), Integrated Stock List (ISL), Naval Sea Systems Command drawings, or a manufacturer's handbook. Part III, Section A of the COSAL SNSL/ISL lists repair parts and equipment related consumables normally stocked by the supply department. Any item in Section A is considered, by definition, a repair part.

g. Consumables. The term "consumables" refers to administrative and housekeeping items, common tools, paints, or other items not specifically defined as equipment or repair parts.

h. Repairable. The term "repairable" refers to a component or part designated by the cognizant inventory manager as an item that can be economically repaired when it becomes unserviceable. Repairable items are identified by Material Control Code (MCC) D, E, G, H, Q, or X. MCC D items may be disposed of locally when they become unserviceable and cannot be locally repaired (i.e., by an organizational or intermediate maintenance activity). MCC E, G, H, Q, and X items are "DLRs" (see NAVSUP PUB 485). When they become unserviceable, they must be transferred to a Designated Support Point (DSP)/Designated Overhaul Point (DOP) as indicated by the Master Repairable Item List (MRIL) if an activity is not directed to follow Advance Traceability And Control (ATAC) procedures (see NAVSUP PUB 485).

i. Depot Level Repairables (DLR). DLRs are repairables that are repaired and condemned at the Depot maintenance level in accordance with the repair maintenance and recoverability codes specified in the MRIL.

j. Progressive Depot Level Repairables (PDLR). PDLRs are DLRs that are repaired or tested and checked at the intermediate maintenance level in accordance with the MRIL repair maintenance code (See NAVSUP PUB 485 Volume III). If they cannot be repaired at the intermediate level, they must be repaired and condemned at the depot maintenance level in accordance with the MRIL recoverability code.

k. Field Level Repairables (FLR). FLRs are repaired and condemned at either the organizational maintenance level or the intermediate maintenance level in accordance with the MRIL repair maintenance and recoverability codes (see NAVSUP PUB 485).

l. Circuit Symbol Number (CSN). CSNs are used for electronic equipment in the same way that part numbers, drawing numbers, etc., are used for other equipment. Most circuit symbol numbers are cross-referenced in the APLs to an NSN for the particular part required.

m. End Item. An "end item" is a combination of products, components parts, and/or materials that is ready for its final intended use. It is an equipment or one of its major subdivisions.

n. Article. An "article" consists of a collection of items within a class e.g., ensigns, all nations; or safety shoes, black, all sizes.

o. Item. An "item" consists of each size or color, etc., of an article e.g., ensign, U.S., No. 7.

p. Replacement Item. A "replacement item" is a different item supplied as a spare or repair part in place of the originally used part. Replacement items are not necessarily interchangeable with the items they replace, they may be of better quality or may have greater capacity than the items replaced. Replacement items are not substitutes because they are supplied on a continuing basis.

q. Make-Items. A "make-item" is an item that is made from raw or bulk stock or by modifying other stocked items, and is not procured for stock or issue in finished form. Make-items are Source Coded (SC) "MF" or "MO" in the COSAL.

r. Equivalent Item. An "equivalent item" is an item that is similar to another item to the extent that its characteristics are in strict accordance with drawings, specifications, standards, performance qualification test (within limits), or tolerances and compounds specified therein. Repairable assemblies are equivalent only if their "purchased repair parts" and performance also are equivalent. "Purchased repair parts" are limited to those items of a design peculiar to the repairable assembly concerned.

s. Interchangeable Item. An "Interchangeable item" is a non-equivalent item that is used in place of another item in all applications.

t. Substitute Item. A "substitute item" is an item authorized for one-time use in place of another item based on a specific application and request. Equivalent or interchangeable items are not included in the term "substitute items". No substitute will be used that might adversely affect any one of the following:

(1) Safety of flight (considering all primary structure and equipment);

(2) Efficient functioning or performance of any aircraft, engine, accessory, or equipment;

(3) Manufacturer's guarantee or warranty;

(4) Delicate, sensitive, or critical assemblies, or those subject to environmental condition, high speed, or high loads. The authority for a substitute is automatically cancelled as soon as a substitute is made. Any additional request for the same substitute item must be considered separately and entirely on merits that justify its preference.

u. Accessory. The term "accessory" refers to a part, subassembly, or assembly designed for use in conjunction with or to supplement another assembly, unit, or set contributing to the effectiveness thereof without extending or varying the basic function of the assembly. An accessory may be used for testing, adjusting, or calibrating purposes e.g., test instrument, recording camera for radar set, head-phones, emergency power supply.

v. Attachment. The term "attachment" refers to a part, assembly, or subassembly, designed for use in conjunction with another assembly, unit, or set contributing to the effectiveness thereof by extending or varying the basic function of the assembly, unit, or set e.g., hoisting equipment on a truck, milling attachment for a lathe.

w. Major Component. A "major component" is an item that is supported by an APL but which is used in a larger item, such as equipment. For example, the meat slicer in the enlisted dining facility is equipment that is supported by an APL, and contains two components: Both slicer's drive motor and starter motor are supported by individual APLs.

x. Major Unit or Component. A "major unit or component" is a particular component or segment of an equipment. For example, a radar set may have several major units, among them a tuner, amplifier, antenna pedestal, etc.

y. Reference Number. A "reference number" is any number other than the current stock number or circuit symbol in electronic equipments that is used to identify a part. The most important reference numbers are manufacturer's part numbers. Superseded stock numbers are also a type of reference number. Reference numbers are used in the Master Cross Reference List (MCRL) and COSAL to determine the NSN.

z. Alternate Number. An "alternate number" is a type of reference number. Identification to a NSN is made normally by use of a primary reference number. Additional numbers that can be used to determine an NSN, such as manufacturer's part number and drawing and piece numbers, are referred to as alternate numbers.

aa. Common Item. The term "common item" refers to an item of standard design, application, and specification normally procurable from several manufacturers or suppliers or available from only one manufacturer, but with wide

usage or an item of such design that multiple applicability is apparent.

bb. Operating Space Items (OSI). OSIs are those items in the custody and under the management of the department heads. Certain OSIs that require special inventory control are designated as "controlled equipment".

cc. Maintenance Assistance Modules (MAM). MAMs are assigned Allowance Note Code (ANC) "N" in the COSAL and are listed in Part III Section CF.

dd. Ready Service Spares (RSS). RSSs are identified on the APL by an ANC "6" item and will be allowed only as a Storeroom Item (SRI) if the items usage warrants support. These items are eligible for stockage in the Operating Space as required by the ship's force and/or TYCOM.

B. MATERIAL CLASSIFICATION.

1. Federal Catalog System (FCS). The FCS encompasses the naming, description, classification, and numbering of all items carried under centralized inventory control by the Department of Defense and the civil agencies of the Federal Government as well as the publication of related identification data. Only one identification may be used for each item for all supply functions from purchase to final disposal. The FCS is also used by North Atlantic Treaty Organization (NATO) countries. The Defense Logistics Agency (DLA) administers the FCS under the direction of the Assistant Secretary of Defense (Installations and Logistics).

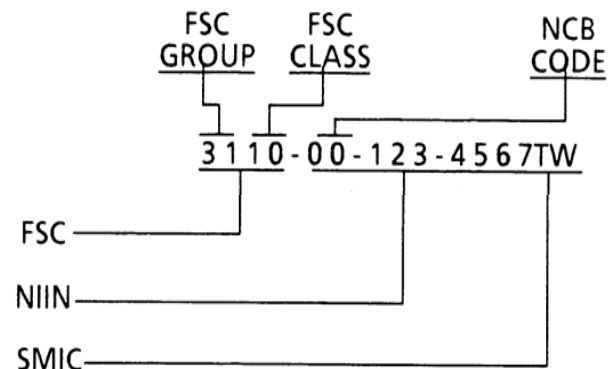
2. Federal Supply Classification (FSC) System. The FSC system is designed to permit the classification of all items of supply used by the Federal Government. Each item of supply will be classified in one; and only one, FSC. The first two digits denote the group or major division of commodities; the last two digits denote the class or subdivision of commodities within a group. Examples of assigned groups are as follows:

<u>Group</u>	<u>Title</u>
13	Ammunition and explosives
20	Ships and marine equipment
25	Vehicular equipment components
28	Engines, turbines, and components
31	Bearings
43	Pumps and compressors
48	Valves
59	Electrical and electronic equipment components
79	Cleaning equipment and supplies

3. National Stock Number (NSN) Format.

a. NSN. An NSN is a 13-digit stock number assigned by the Defense Logistics Information Service (DLIS) (formerly DLSC), Battle Creek, Michigan, to identify an item of material in the supply distribution system of the United States. It consists of a four-digit FSC and a nine-digit National Item Identification Number (NIIN). The NIIN consists of a two-digit National Codification Bureau (NCB)

code plus seven digits, which in conjunction with the NCB code uniquely identify each NSN item in the Federal supply distribution system. For example:



There are two NCB Codes assigned to the United States. NCB Code "00" identifies all NSNs assigned prior to 31 March 1975. In the example below, note that although the last seven digits of the NIIN are identical, the items are different. One has an NCB Code of "00", and the other item has an NCB Code of "01". Errors in the use of "00" and "01" can result in either rejected requisitions or receipt of incorrect material.

<u>COG</u>	<u>FSC</u>	<u>NIIN</u>	<u>NOMENCLATURE</u>	<u>PRICE</u>
9N	5915	-00-005-8825	FILTER	\$182.97
2R	1650	-01-005-8825	CYLINDER	\$2,120.00

b. Special Material Identification Code (SMIC). A SMIC is a two-position alpha or alphanumeric code assigned by the Commander, Naval Supply Systems Command (NAVSUP), to certain NSN items that require:

- (1) Source of quality control;
- (2) Technical design or configuration control and or;
- (3) Special controls for procurement, receipt, inspection, test, storage, and/or issue. The SMICs currently authorized are listed and defined in NAVSUP PUB 485, Appendix 14. NAVICP-M SMICs are listed in Appendix A of this manual. When a SMIC is assigned to an item, the SMIC will be suffixed to the NSN in all supply documents and records.

4. Navy Item Control Number (NICN). Items of material that are not included in the FCS but are stocked or monitored in the Navy supply system are identified by NICNs. NICNs are 13-character item identification numbers that are assigned by the Inventory Control Points (ICPs) or other Navy item managers for permanent or temporary control of selected non-NSN items under their cognizance. A NICN consists of numeric characters in the first four positions; a two-position alpha code (NICN code) that identifies the type of NICN; and seven alphanumeric characters, which in conjunction with the NICN code, uniquely identify each NICN. The following NICN codes are in use:

<u>NICN Code</u>	<u>Application</u>	<u>Examples</u>
LD	COG 01 Stock Number for Directives	0526-LD-055-1920
LE	Poseidon items common to TRIDENT	1220-LE-F00-4016
LF	COG 1I stock numbers for forms	0108-LF-504-2201
LK	Aircraft change kit numbers	1234-LK-UAI-2345
LP	COG 0I and 0P stock numbers for publications	0530-LP-485-0000
LS	SSP alteration kit numbers	1234-LS-123-4567
LX	Control numbers assigned by NAVICP-P field activities to certain items under their inventory control (see NAVICP-P Pub. NAC-10)	1560-LX-NP1-2342
LL	All other control numbers assigned by ICP or other Navy item managers	4930-LL-CA0-0001 4820-LL-HH0-7571
	Any other activity	7520-LL-555-1234

5. Temporary Navy Item Control Number (T-NICN).

a. The first four digits of "LL" coded NICNs generally correspond to the FSC of similar NSN items. If the first four digits of the NICN are not known, and if an appropriate FSC cannot be determined, "0000" will be entered as the first four digits of the NICN in supply records and transaction documents. NICNs with "LL" in the fifth and sixth positions, any letter except "C" in the seventh position, and pseudo FSC "0099" or actual FSC are assigned by NAVICP-M or other Navy Managers (including field activities) for temporary identification and control of selected non-NSN items pending assignment of NSNs by DLIS. The use of T-NICNs enables item managers to establish and maintain automated file records, facilitate procurement action, and maximize automated processing of requisitions. Although T-NICNs may be reflected in APLs and SNSL, they are not included in the Federal Logistics Data (FEDLOG). (Superseding NSNs ultimately will be included in the Management List-Navy (ML-N) as new adds without reference to the superseded NICN).

b. Temporary "LL" coded NICNs are reviewed periodically by cognizant item managers to ensure that appropriate action has been or is being taken to convert the NICNs to NSNs, or to delete the NICNs that are no longer required. A NICN to NIIN cross-reference list is published monthly by DLIS on FEDLOG CD-ROM. Requests for automatic distribution of FEDLOG should be submitted to Defense Automated Printing Services (DAPS). Additionally, when a requisition identifies an item by a temporary NICN that has been converted to an NSN, the supply status card sent to the requisitioner will include the superseding NSN in card columns 8-22 and status code BG in card columns 65-

66. Upon receipt of such cross-reference lists or supply status cards, afloat activities will update stock or custody records, locator records (if maintained), the COSAL, and retained copies of outstanding requisitions to reflect the superseding NSNs.

6. Permanent Navy Item Control Number (P-NICN). A P-NICN is assigned by the ICP or other Navy item managers to identify and monitor certain non-NSN items which are not expected to generate sufficient demand to qualify for assignment of an NSN or are managed as P-NICNs due to other special circumstances e.g., Foreign Military Sales (FMS) only application, interim contractor support, Military Sealift Command (MSC), or Coast Guard unique items. A P-NICN is a 13-character alphanumeric designation with an "LL" in the fifth and sixth positions, a "C" in the seventh position, and FSC other than 0099 or the actual FSC. P-NICNs are assigned by the ICPs or other Navy item managers, (including field activities), to identify and monitor certain non-stocked non-NSN items that are not expected to generate sufficient demand to qualify for assignment of NSNs. Such NICNs are assigned to permit the maintenance of a complete and uniform ICP weapon systems file, and to ensure that selected items are considered for inclusion in future allowance lists. Stock points generally are required to purchase each requisitioned item that is identified by this type of NICN. However, since stock points currently do not have the capability to translate permanent "LL" coded NICNs to applicable Commercial and Government Entities (CAGEs) and part numbers, it is necessary for such items to be requisitioned in DD Form 1348-6 format in accordance with NAVSUP Pub 485.

List of pseudo FSCs used for T-NICNs and P-NICNs described in paragraphs 5 and 6.

<u>FSC</u>	<u>DESCRIPTION</u>
0000	Assigned to LL-TR prefix NICNs identifying on time procurements made by NAVICP-M, LL-TS prefix NICN identifying local procurements made by customer stock points, and LL-C series NICNs. Items with three demands during a six-month period will be reviewed for possible NSN assignment. Unique 0000 FSCs are also assigned to Coast Guard and Military Sealift Command. Fabrication Item is an item assigned a permanent NICN with an FSC of "0000" and a prefix of LL-CM.
0028	Machine assigned to all Defense Logistics Agency (DLA)/General Services Administration (GSA) type items and NAVICP-M 1H COG items prior to stockage determination.
0098	Early Supply Support (ESS) Contractor Support.
0099	Assigned to all T-NICNs in commodity orientated FSCs that have been coded for DLA/GSA management and qualify for stocking or allowances.
Actual	FSC T-NICNs assigned to NAVICP-M managed items for weapon systems oriented items and commodity orientated FSCs that have been item management coded for service retention and qualify for stocking.

7. Navy Item Control Number (NICN) to National Stock Number (NSN). The following depicts the flow of a NICN from its origin to NSN assignment. Figure 2-A is a flow chart of the process.

a. Not Maintenance Significant, No Failure Anticipated, Not Selected for Allowance Parts List (APL).

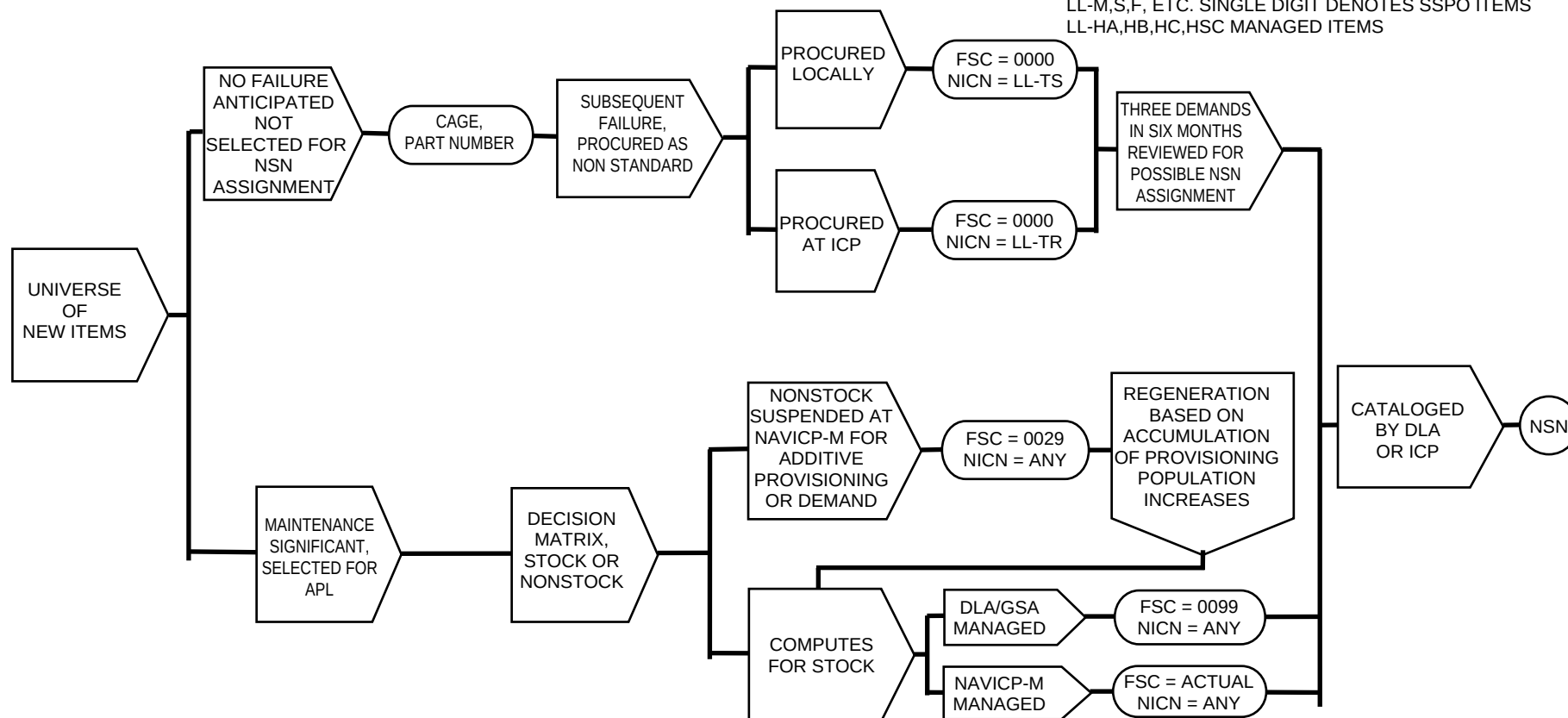
These items are not initially loaded in NAVICP-M files, but upon subsequent failure, are procured as a nonstandard item. If the item is purchased locally, it will be assigned a NICN with a FSC of 0000 and a prefix of LL-TS. If it is purchased by NAVICP-M, it will also be assigned a NICN with a FSC of "0000", although the prefix will be LL-TR. If the item is a fabricated item, it is assigned a permanent NICN with a FSC of "0000" and a prefix of LL-CM. If the NICN receives three or more demands during a six-month period, it will be reviewed for possible assignment of an NSN.

b. Selected for APL. If an item qualifies for stocking, a Supply Support Request (SSR) is submitted to the managing activity for support and NSN assignment. Items to be managed by NAVICP-M are assigned the actual FSC and will be assigned a NSN. DLA/GSA managed items are assigned a FSC of 0099.

NICN TO NSN FLOW CHART

SOME OF THE COMMONLY USED NICN SERIES

LL-MA ELECTRONICS ITEMS
 LL-MB ELECTRONICS ITEMS
 LL-HO HME&O ITEMS
 LL-HX NUCLEAR ITEMS
 LL-JB TRIDENT ITEMS
 LL-M,S,F, ETC. SINGLE DIGIT DENOTES SSPO ITEMS
 LL-HA,HB,HC,HSC MANAGED ITEMS



TERMS:

APL=ALLOWANCE PARTS LIST
 DLA=DEFENSE LOGISTICS AGENCY
 ICP=INVENTORY CONTROL POINT
 GSA=GENERAL SERVICES ADMINISTRATION

CAGE=COMMERCIAL AND GOVERNMENT ENTITY
 FSC=FEDERAL SUPPLY CLASS
 NICN=NAVY ITEM CONTROL NUMBER
 HSC=HARDWARE SYSTEM COMMAND (NAVSEA OR NAVELEX)

FIGURE 2 - A

8. Local Item Control Number (LICN). Technically, any item identification number assigned by an activity for its own use is a NICN. However, to distinguish between NICNs that are authorized in supply transaction documents and those that are not, the term "local item control number" will be used in lieu of "NICN" in this publication to indicate the type of identification number that is not authorized in supply transaction documents. LICN, formally called local stock number, may be assigned to shipboard stocked consumable items that are not identified by an NSN, a NATO stock number, or another type of NICN. A LICN will consist of 13 characters. The first four will be numeric corresponding to the FSC of similar NSN items, the fifth and sixth will be "LL", and the remaining seven will be numeric. For example:

Appropriate FSC — 7520 — -LL — -0000123
 Designation for a locally assigned identification number
 Serially assigned identification number

LICNs are authorized for local use only (i.e., for shipboard stock records, locator records, bin tags, issue documents, etc.). They are not authorized in requisitions inasmuch as such item identification numbers would be meaningless to the supply source. If replenishment of a LICN item is required, it must be requisitioned on DD Form 1348-6 in accordance with NAVSUP PUB 485 par. 3026.

9. North Atlantic Treaty Organization (NATO) Use of the Federal Catalog System (FCS).

a. Standardization Agreement. The NATO Standardization Agreement 3151 provides for the adoption of the United States item identification system as the basis for the NATO item identification system within the armed

forces of signatory countries. The method of application of this standardization agreement within each NATO country will remain a matter of national discretion.

b. NATO Stock Number Format. The format of the NATO stock number is as follows:

3 1 1 0 - 2 1 - 4 2 6 - 1 2 8 4
 NATO supply classification
 NCB Code
 NATO Identification Number

The National Codification Bureau (NCB) codes currently assigned are as follows:

00	United States	24	Iceland
01	United States	25	Norway
11	NATO Standard Items	26	Portugal
12	Germany	27	Turkey
13	Belgium	28	Luxembourg
14	France	29	Argentina
15	Italy	30	Japan
16	Czech Republic	32	Singapore
17	Netherlands	33	Spain
19	Brazil	43	Poland
20	Canada	51	Hungary
21	Canada	66	Australia
22	Denmark	98	New Zealand
23	Greece	99	United Kingdom

10. Requisition Procedures.

a. P-NICNs with a FSC of "0000" will be requisitioned by Part Number/CAGE on DD Form 1348-6 or NAVSUP 1250-2 (if available). The remarks section of the DD Form 1348-6 should be annotated with the 0000 NICN

b. P-NICNs with a FSC other than 0000 and all T-NICNs will be requisitioned by NICN on DD Form 1348.

c. Locally assigned item control numbers are authorized for local use only. If replenishment of a locally numbered item is required, it must be requisitioned by Part Number/CAGE on DD Form 1348-6 or NAVSUP Form 1250-2 (ships only).

d. NATO stock numbers are requisitioned through normal supply channels utilizing a DD Form 1348. If a NATO number and NSN are the same, use the NSN that contains the NCB that is the Country Code.

e. Detailed requisitioning instructions can be found in NAVSUP PUB 485 Chapter 3.

C. MANAGEMENT DATA LISTS.

1. Introduction. Material identification does not end with the assignment of a stock number. The supply system customer must have a means to identify their particular needs for the established stock numbers, and to determine

the correct quantities to be carried onboard. The following lists are used to identify customer requirements:

a. Management Data Lists provide current data required for requisitioning purposes (e.g., latest NSN, unit of issue, price, cognizant inventory manager, and control codes, etc.).

b. FEDLOG is furnished monthly by DLIS on CDROM. FEDLOG can be queried by: Part Number; CAGE; NIIN, NSN, Permanent System Control Number (PSCN), Supplier Name, Item Name, NICN, Engine Number, and MRIL Shipping Code.

Data on FEDLOG consists of extracts from data found on these FSC publications: Management List-Consolidated (ML-C), Master Cross Reference List (MCRL), Federal Item Logistics Data Record (FILDR), Identification List (IL), Interchangeability and Substitutability (I&S), CAGE, Federal Supply Classification Groups and Classes (H2-1), Freight Selected Federal Item Name Directory for Supply Cataloging Data (H-6); Navy unique publications formerly published on microfiche but are now included on the FEDLOG are:

(1) Master Repairable Item List (MRIL). Lists Navy-managed repairable items and provides guidelines for turn-in or repairable material.

(2) List of Items Requiring Special Handling (LIRSH). Serves as a reference to identify items in the supply system that requires special handling.

(3) Navy Item Control Number to National Item Identification Number (NICN-NIIN) Cross Reference. The flow of a NICN from its origin to NSN assignments can be identified.

(4) Commercial and Government Entity (CAGE Cataloging Handbook -H4/H8. Contains the names and addresses of manufacturers producing items used by the Federal Government. The CAGE is published in two parts:

(a) Section A - Manufacture Name and Address to five-digit code.

(b) Section B – Five-digit code to Name of Manufacturer and Address.

(5) Identification Lists (ILs). Provides technical characteristics or other identifying data for most items in the federal supply groups and classes.

NOTE: DAPS manages all Navy subscriptions for the FEDLOG. For more information contact DAPS website at <http://forms.daps.dla.mil>.

c. Allowance lists contain the items authorized e.g., controlled equipage, repair parts, and consumables, quantities that should be on hand, and descriptive data that associates a material requirement to a NSN.

d. Load lists reflect the range and depth of material carried by CLF ships (including tenders and repair ships) or bases to fulfill assigned supply support of Fleet units.

2. Management List - Navy (ML-N) and Related Publications.

a. General. Complete and accurate management data must be available for requisitioning purposes and for effective financial and inventory control of material. The Introduction to Federal Supply Catalogs and Related Publications (NAVSUP P-4000) contain valuable information and instructions. The ML-N provides basic management data. Related Publications supplement the ML-N. These provide additional management data by consolidating certain information for reference purposes. The ML-N and related publications all use the NSN as a common data element.

b. Primary Publication. The ML-N is published monthly by DLIS on CD-ROM-FEDLOG. The ML-N includes the basic management data necessary for preparing requisitions. It includes an integrated historical record of deleted and superseded NIINs with appropriate phrase codes to indicate disposition action. The ML-N is tailored to include Navy interest items and is the instrument for publishing data relative to stock number, units of issue, unit price, shelf life codes, and other pertinent management information.

c. Related Publications.

(1) General. The FEDLOG provides most of the required management data related to a stock number. Other essential information is included in related publications that should be used in conjunction with the FEDLOG. These publications are described below:

(a) Hazardous Material Information Resource System (HMIRS). The HMIRS (formerly HMIS) is the DOD automated information system developed and maintained by the Defense Logistics Agency to fulfill the requirement of DOD Instruction 6050.5. It provides DOD and other federal employees access to the Material Safety Data Sheet (MSDS) for hazardous items in government inventory. HMIRS also assists in compliance with transportation/shipping requirement through value-added data. The transportation information provides proper shipping names, hazard classes, and shipping label requirements associated with Hazardous Material (HM) for shipment, nationally or internationally, by any mode of transportation. It has hazard warning label information in the format of the DOD Hazard Communication Warning Label. The information contained in HMIRS is DOD Hazard Communication Warning Label. The information contained in HMIRS is also provided to various other DOD systems for environmental, logistics, and transportation purposes. In addition, HMIRS is also the repository for the Hazard Characteristic Code (HCC) assigned to HM. The new HMIRS is a contemporary and professional product encompassing four applications. This includes a new and improved look and functionality for the HMIRS Web and CD-ROM, a new Submittal Web Site, and the On-Line Administrator. The On-Line Administrator controls the entire system from managing system users to managing reference tables, product records, and documents. The HMIRS Document Submittal Web Site provides a publicly available location on the Internet where manufacturer, vendor, and government personnel can electronically submit MSDS and manufacturer's labels to HMIRS. Access to the web site is available to manufacturers, suppliers, and government personnel throughout the world. For more information on all four applications contact:

HMIRS Program Management Office
 hmirs@dlis.dla.mil or www.dlis.dla.mil/hmirs

HMIRS is distributed quarterly on CD-ROM in two versions. These are DOD 6050.5-LR configuration, which contains proprietary ingredient data, and DOD 6050.5-L version which does not. Both versions are available to DOD activity and active Federal agency HMIRS participants. Non-participating Federal agencies and the general public are eligible to receive the DOD 6050.5-L version. Contact one of the following for more information:

DLA/ALL OTHER DOD US GOVT AGENCIES

DSCR-VBB
 Defense Supply Center Richmond

8000 Jefferson Davis Hwy
 Richmond, VA 23297-5685
 DSN 695-5735 or 804-279-5735
 FAX: DSN 695-4149 or 804-279-4149
hmirsfm@dlis.dla.mil

AIR FORCE

Attn: HMIRS
 AFIERA/RSH
 Bldg 180 Rm 134
 2513 Kennedy Cir
 Brooks AFB, TX 78235-5116
 DSN 240-6159 or 210-536-6159
 FAX: DSN 240-2315 or 210-536-2315
hmirsaf@dlis.dla.mil

ARMY/ARMY NATIONAL GUARD

Chief, USAMC Logistics Support Activity
 Packaging, Storage, & Containerization Center
 AMXLS-AT
 11 Hap Arnold Bldg
 Tobyhanna, PA 18466-5097
 DSN 795-6622/7682 or 570-895-6622/7682
 FAX: DSN 795-7175 or 570-895-7175
hmirsarmy@dlis.dla.mil

NAVY/MARINE CORPS

Naval Inventory Control Point-Mechanicsburg
 P.O. Box 2020
 5450 Carlisle Pike
 Mechanicsburg, PA 17055-0788
 DSN 430-9144-5 or 717-605-9144
 FAX: DSN 430-7686 or 717-605-7686
hmirsn/mc@dlis.dla.mil

PRIVATE COMPANIES

DLIS Customer Service Office
 Defense Logistics Information Services
 74 Washington Ave N Ste 7
 Battle Creek, MI 49017-3084
 DSN 932-4725 or toll free 888-352-9333
 FAX: DSN 932-5305 or 269-961-5305
dlis-support@dlis.dla.mil

(b) Ships Hazardous Material List (SHML).

The SHML lists potentially dangerous chemicals and substances controlled and managed under the Hazardous Material Afloat Program. These materials include items such as grease and paint, which are required for equipment maintenance and ship upkeep. Hazardous Material (HM) controlled and managed under other programs include ammunition, weapons, explosives, explosive actuated devices, propellants, pyrotechnics, chemical, biological and nuclear warfare materials, medical and pharmaceutical supplies, medical waste and infectious materials, sewage, garbage, bulk fuels (including nuclear fuels), and the Asbestos Removal Program.

(1) The primary purpose of SHML is to identify HM and corresponding units of issue used aboard ships to preclude stocking hazardous materials for which the ships have no need. The SHML is also intended to aid System Commands (SYSCOMS) in the selection of HM

during the ship/system design, acquisition, and logistics support processes. Finally, SHML is the HM authorized use list for afloat activities.

(2) Type Specific SHMLs (T-SHML) are lists of authorized HM for specific types and/or classes of ships.

(c) Afloat Shopping Guide (ASG). The Afloat Shopping Guide is designed to assist Fleet personnel in identifying the NSN for items that are frequently requested by ships. It includes a detailed description of each item, and (when applicable) the stock numbers of substitute items. It also includes specifications for illustrations or diagrams of many types of material. The ASG is printed in three different sections. The ASG does not preclude the need for using the FEDLOG for verification of current stock numbers, unit of issue, unit prices, and the management data required in supply documents and records.

SECTIONS	FEDERAL SUPPLY GROUP/CLASS
1	20-51
2	52-56
3	59-99

ASG has been incorporated in the Navy Logistics Library (NLL). The NLL website is <https://nll1.ahf.nmci.navy.mil>. NLL is a CD-ROM product designed by Navy Supply Information Systems Activity (NAVSISA) to make logistics information more accessible to a broad range of personal computer users. This product also carries policy and procedure manuals. The NLL (NAVSUP PUB 600) is published three times a year. Distribution questions should be directed to DAPSDO Mechanicsburg, DSN 430-6108, Commercial (717) 605-6108.

D. MISCELLANEOUS SOURCES OF IDENTIFICATION

1. General Information

a. Commercial Catalogs and Instruction Books.

Commercial catalogs and instruction books or pamphlets are issued by the manufacturer and contain information that is of value in preparing of procurement documents for nonstandard material. These catalogs and instruction books provide further sources of information and should be used as a supplement to Navy publications to provide a quick and accurate method of identifying commercial equipment, repair parts, and accessories.

b. Serial Number. Certain technical material may be serial numbered, either by direction of the responsible bureau, systems command or by the manufacturer. These serial numbers are used to maintain records on the material and appear on all vouchers, records, custody cards, and survey reports.

c. Nameplates. Material identification, particularly portable and installed equipment, is facilitated by reference to nameplates attached to the equipment. Nameplate data includes the manufacturer's name and the equipment make or model number, serial number, size, voltage, etc.

d. Drawing Numbers. Certain technical materials are identified by a drawing or a sketch number assigned by the controlling bureau, systems command, or the manufacturer. When requisitioning nonstandard items, the drawing number, when available, will be included in the technical data being supplied in the Non-NSN Requisition (DD Form 1348-6 or NAVSUP 1250-2) to assist in positive identification.

e. Markings.

(1) Electronic Material. Various items of electronic equipment are identified by Joint Communications Electronic Committee (JCEC) nomenclature (e.g., AN/UYK-5 (V)), or Navy type or model number, or manufacturer's model number, as well as stock number and serial number. In addition, major units of fire control radar equipments are identified by mark and modification numbers.

(2) Ordnance Material. Ordnance material usually is given a mark and modification number, a drawing number, and a piece number. These serve to identify the part and facilitate reference to ordnance publications. Ordnance equipment also may be serial numbered, giving individual identity to units that are physically alike. This number is stamped onto certain ordnance equipment, such as small arms, to facilitate identification of the manufacturer and to place responsibility for custody.

f. Contractor's Service Bulletins. Contractor service bulletins include contractor's recommendations for modification of repair of specific equipment and usually contain part numbers, nomenclature, and names of manufacturers.

g. Naval Ships' Technical Manual (NSTM). The NSTM is published by NAVSEA and contains information and instructions for the operation, care, and repair of systems.

2. Ordnance Publications.

a. General. The primary reference sources used to identify ordnance material are the Navy Management Data List, the Illustrated Parts Breakdown (IPB) of Ordnance Equipment, Naval Ordnance Equipment, Naval Ordnance Allowance Lists, photo prints, and blueprints. When these sources are not adequate, naval ordnance pamphlets, instruction books, and bulletins can be used.

b. Illustrated Parts Breakdown (IPB) of Ordnance Equipment. The IPBs of ordnance equipment describe and illustrate the various parts of each ordnance equipment. The index of Naval Ordnance Publications (NAVORD Publication OP-O) contains an index of all IPBs that have been released for distribution. IPBs for nuclear weapons and associated equipments are listed in Special Weapons Ordnance Publication (SWOP) O-1B.

c. Photoprints and Blueprints. Photoprints and blueprints show descriptive data, drawing and piece number, and other details of identification for component parts, subassemblies, and assemblies that comprise the major equipments.

d. Ordnance Pamphlets, Instruction Books, and Bulletins. Ordnance pamphlets, instruction books, and bulletins provide methods, policies, practices, and changes affecting a wide range of subjects. Information on these publications is contained in the index of Ordnance Publications (NAVORD Publication OP-O).

e. Ship Armament Installation List (SAIL). The Ship Armament Installation List documents the configuration of non-expendable installed ordnance equipment. The SAIL is produced from data provided by Combat Systems In-Service Engineering Agents (ISEA) databases. This same data is provided to the Weapon Systems File (WSF)/SCLISIS database via configuration data managers to produce the COSAL/Shipboard Nontactical Automated Data Processing Program (SNAP). In addition, this data is used to identify applicable technical publications, ammunition allowances, and maintenance requirement card applicability.

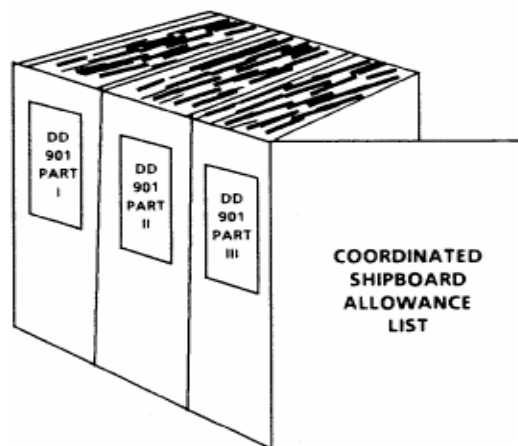
3. Navy Stock List of Publications and Forms (NAVSUP P-2002D). This list contains requisitioning procedures and sources of supply for Cognizance Symbol "I" material. The Index of Technical Publications (ITP) is listed in Section 1. The ship hull number is listed in alphanumeric sequence and provides the stock number for the Ship's Publication Applicability List that provides the stock number of all technical manuals applicable to equipments installed aboard ship. Section I also contains a Ship's Drawing Index. The ship hull number is listed in alphanumeric sequence and provides stock numbers for drawing/diagrams of ship systems, e.g. AEO 2 fuel piping system.

4. Ships Portable Electrical/Electronic Test Equipment Requirements Lists (SPETERL). The SPETERL documents the allowances for General Purpose Electronic Test Equipment (GPETE) authorized by NAVSEA and the Fleet TYCOM to support corrective and preventive maintenance for the ship or station. Data from the WSF/SCLISIS is used to determine what prime systems are installed that require GPETE. Point of contact for SPETERL issues, Allowance Change Requests (ACRs) is NSWC IHD Detachment Earle,

Code E414, Donna Morse, donna.morse@navy.mil. Point of contact for GPETE deficiencies is NSWC Corona Detachment Seal Beach, Code PE-32, Greg Hogan, gregory.hogan@navy.mil.

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INTRODUCTION

1. Purpose. The Coordinated Shipboard Allowance List (COSAL) establishes the shipboard material support for installed and portable equipment and provides a list of the equipment required for a ship to perform its operational mission. It is designed to achieve support among the various equipments enabling the ship to have a maximum, self-supporting capability for an extended period of time. By contrast the Coordinated Shore Base Allowance List (COSBAL) establishes the shore-based support for installed and portable equipment and is essentially similar to the COSAL. Only specific differences will be noted.

2. Authority. The COSAL is published under the authority contained in OPNAV Instruction 4441.12 Series.

3. General. The COSAL is a document prepared for an individual ship which lists: (1) the equipment or components required for the ship to perform its operational assignment; (2) the repair parts and special tools required for the operation, overhaul and repair of those equipments; and (3) the miscellaneous portable items necessary for the care and upkeep of the ship. The COSAL is both a technical and a supply document. It is technical in that nomenclature, operating characteristics, technical data, etc., are described on Allowance Parts Lists (APL) and Allowance Equipage Lists (AEL). It is a supply document in that the COSAL provides a complete list of all parts required to operate and maintain the ship and the equipment installed therein. The initial COSAL is derived from configuration data in the computerized Weapon Systems File (WSF) maintained at the Naval Inventory Control Point - Mechanicsburg (NAVICP-M). The WSF includes the equipment configuration reported by the Configuration Data Manager (CDM) that is installed on each ship as well as the individual repair parts applicable to those equipments. The COSAL's

validity is dependent upon the initial establishment of an accurate configuration database and upon prompt reporting of changes that result from additions, deletions, or modifications of equipments. The quality of the COSAL is only as good as the equipment configuration data available to the various activities involved in the development of the COSAL. The content of the COSAL encompasses *Hull, Mechanical, and Electrical; Ordnance; and Electronic equipment. The COSAL does not contain information relative to provisions (foodstuffs), recreational equipment, printing equipment, medical material, hydrographic charts, resale clothing, ship's store merchandise, bulk fuels and lubricants, or ammunition. Allowances of these items are published in unique lists prepared by the appropriate activity.

*Includes photographic, catapult/arresting gear, meteorological, and certain other aviation applications.

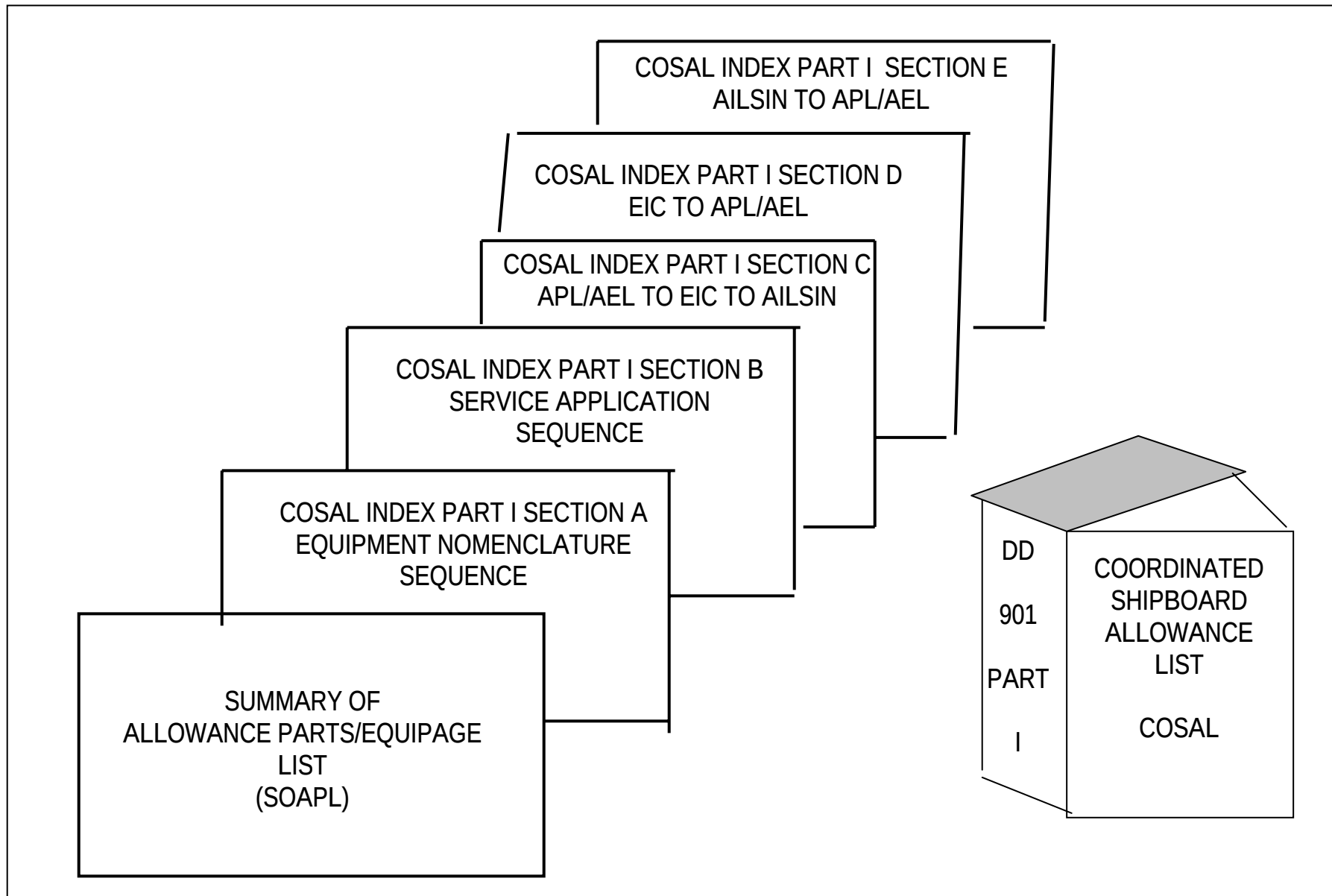
4. Publication. The COSAL is published and maintained by:

Naval Inventory Control Point - Mechanicsburg
5450 Carlisle Pike, P.O. Box 2020
Mechanicsburg, PA 17055-0788

5. Organization. The COSAL is produced within an Access database in three parts: Part I contains indexes; Part II contains associated APLs/AELs; and Part III contains allowances and cross-reference data. Each part is described in detail in this chapter.

6. Figures. The purpose of the figures used throughout is to assist you in understanding the principles and procedures outlined in written instructions. The figures do not necessarily show current names, dates, or numbers.

COSAL PART I



A. COSAL In Access (CIA) Navigation -

The below screen shots are examples from the COSAL In Access (CIA) to show the user basic navigation through the the Application. Follow on figures will assist with the data content within each section.

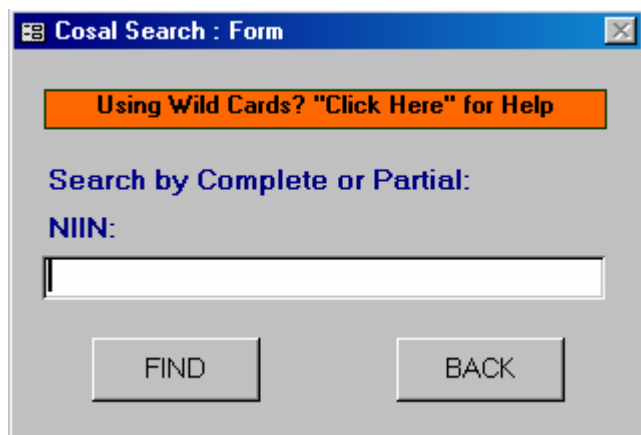
COSAL Ship Information – provides the basic information relative to the hull being viewed.

Main Menu – The primary information for the Ship is accessible using one of the three buttons along the left side of the screen. Which access method is used will depend on the type of information required and whether the user knows the data keys.

If the user wants specific data for an APL/AEL, AND knows the RIC they are interested in, they should enter the RIC in the highlighted field and click the button labeled "COSAL Data for an APL/AEL". This will cause the COSAL Data Page, described below, to be displayed with data for the RIC entered. The RIC entered must be valid for this ship.

If the user wants specific data for an APL/AEL, but does not know the RIC, they should select the second button on left of the screen labeled "COSAL Data by Searching". The user may search by any of the keys listed on the Product Search Menu below or a "Display All Records" option is available. This will display the next screen where the user can enter all or part of the key they know.

While the screen below shows how the user would search for Ship information if they know all or part of a NIIN, the search screens for the other data types are similar. You simply enter all or part of the key data and a search for matches in the database is initiated.



Cosal Search : Form

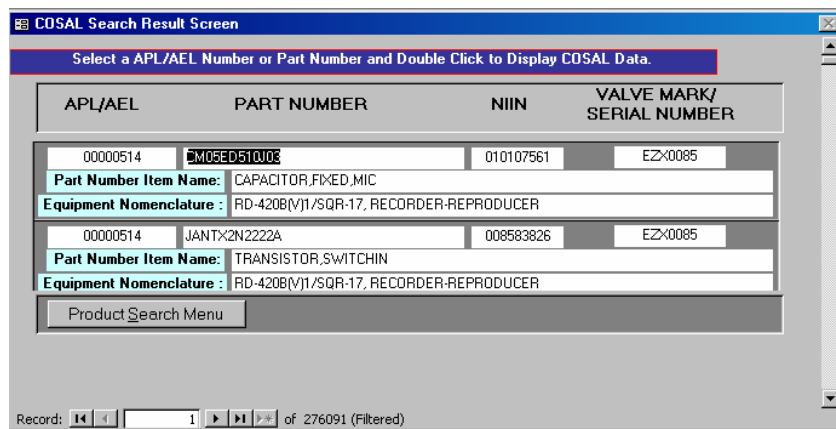
Using Wild Cards? "Click Here" for Help

Search by Complete or Partial:

NIIN:

FIND BACK

When the database search is complete, all matching records are displayed on the screen below. From that screen, the user double clicks an APL/AEL and the COSAL Data Page is displayed with drill down capability to all the Part I, II, & III information for the hull that is being viewed.



COSAL Search Result Screen

Select a APL/AEL Number or Part Number and Double Click to Display COSAL Data.

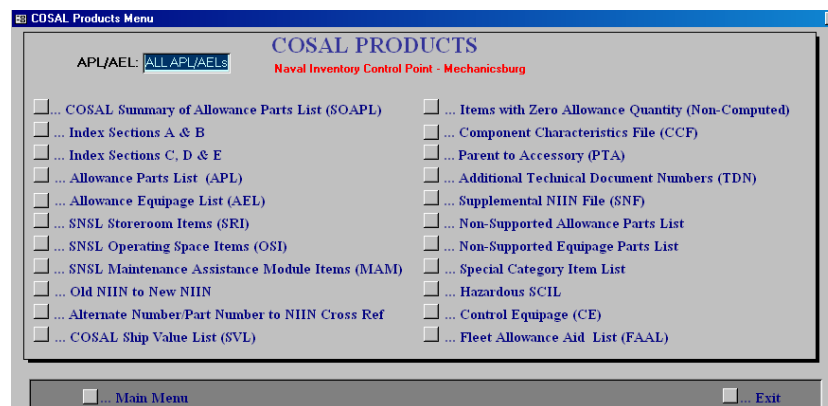
APL/AEL	PART NUMBER	NIIN	VALVE MARK/ SERIAL NUMBER
00000514	CM05ED51002	010107561	EZ40085
Part Number Item Name: CAPACITOR, FIXED, MIC			
Equipment Nomenclature: RD-420B(V)1/SQR-17, RECORDER-REPRODUCER			
00000514	JANTX2N2222A	008583826	EZ40085
Part Number Item Name: TRANSISTOR, SWITCHIN			
Equipment Nomenclature: RD-420B(V)1/SQR-17, RECORDER-REPRODUCER			

Product Search Menu

Record: 1 of 276091 (Filtered)

If, from the Main Menu, the user wants to view one of the COSAL Parts for all of the RICs on the ship, they should choose the third button on the left labeled "COSAL Data for all APL/AELs". This will cause the COSAL Products menu to be displayed. This menu lists all of the types of COSAL data available and will allow the user to select them to view all of that type of data for the ship. If the user decides they want to look at specific APL/AEL data, they can enter the RIC in the field on the top of the screen and the COSAL Data Page for that APL/AEL will be displayed when they click any of the selections on the menu. If one of the data types is selected for "ALL APL/AELs", the data is displayed in the same manner as if the user had selected "DISPLAY ALL" from one of the tabs on the COSAL Data Page.

Detailed instructions are found within the CIA CD-ROM Users Manual.



COSAL Products Menu

APL/AEL: ALL APL/AELs

COSAL PRODUCTS
Naval Inventory Control Point - Mechanicsburg

- ☐ ... COSAL Summary of Allowance Parts List (SOAPL)
- ☐ ... Index Sections A & B
- ☐ ... Index Sections C, D & E
- ☐ ... Allowance Parts List (APL)
- ☐ ... Allowance Equipage List (AEL)
- ☐ ... SNSL Storeroom Items (SRI)
- ☐ ... SNSL Operating Space Items (OSI)
- ☐ ... SNSL Maintenance Assistance Module Items (MAM)
- ☐ ... Old NIIN to New NIIN
- ☐ ... Alternate Number Part Number to NIIN Cross Ref
- ☐ ... COSAL Ship Value List (SVL)
- ☐ ... Items with Zero Allowance Quantity (Non-Computed)
- ☐ ... Component Characteristics File (CCF)
- ☐ ... Parent to Accessory (PTA)
- ☐ ... Additional Technical Document Numbers (TDN)
- ☐ ... Supplemental NIIN File (SNF)
- ☐ ... Non-Supported Allowance Parts List
- ☐ ... Non-Supported Equipage Parts List
- ☐ ... Special Category Item List
- ☐ ... Hazardous SCIL
- ☐ ... Control Equipage (CE)
- ☐ ... Fleet Allowance Aid List (FAAL)

Main Menu Exit

COSAL In Access (CIA) Data Page

The COSAL Data page figure 3-A below is the primary screen for viewing COSAL data for a ship/activity. It serves as the main navigation menu. If the user is viewing the COSAL Data Page for an APL/AEL and needs to switch to a different APL/AEL, they can simply type the new RIC into the APL/AEL field at the top of the screen and press enter. Data for the new APL/AEL will be displayed. Follow on figures will provide detailed information regarding each tab.

COSAL Data Page for DDG 100

APL/AEL: COSAL DATA PAGE

Alt Num CR		PTA		SNF		TDN		N-S APLs		N-S AELs	
APL	AEL	CCF	SRI Items	OSI Items	MAMs Items	Non-Computed Items		Old to New	Indexes A & B	Indexes C,D & E	

Allowance Parts List for selected APL

APL	PART NUMBER	CAGE	ITEM NAME	COG	MCC	FSC	NIIN	SMIC	PART MEC	SC	MAIN
00000514	RN55C3921F	81349	RESISTOR, FIXED FILM	9N		5905	000035782		1	PA	DZ
00000514	600798-01	54089	INSULATOR	9B		5970	000040112		1	PA	DZ
00000514	RN55D1502F	81349	RESISTOR, FIXED, FILM	9N		5905	000046118		1	PA	DZ
00000514	RNC55H5112FP	81349	RESISTOR, FIXED FILM	9N		5905	000052880		1	PA	DZ
00000514	RNC55H9090FP	81349	RESISTOR, FIXED FILM	9N		5905	000052883		1	PA	DZ
00000514	RNC55H3012FP	81349	RESISTOR, FIXED FILM	9N		5905	000052902		1	PA	DZ
00000514	M39014/01-1277	81349	CAPACITOR, CERAMIC	9N		5910	000108666		1	PA	DZ
00000514	M39014/01-1489	81349	CAPACITOR, CERAMIC	9N		5910	000108715		1	PA	DZ
00000514	M39014/01-1513	81349	CAPACITOR, CERAMIC	9N		5910	000108717		1	PA	DZ
00000514	CK06BX103K	81349	CAPACITOR, CERAMIC	9N		5910	000108718		1	PA	DZ
00000514	600836-02	54089	CONTACT, ELECTRICAL	9B		5999	000212118		1	PA	DZ

Figure 3-A COSAL Data Page

SUMMARY OF ALLOWANCE PARTS/EQUIPAGE/COMPONENT LISTS (SOAPL)

The Summary of Allowance Parts/Equipage/Components is in numerical sequence. From the COSAL Products menu (shown below) the user selects "COSAL Summary of Allowance Parts List (SOAPL)". The SOAPL contains all APLs/AELs/ACLs that apply to the ship.



The SOAPL is broken down by equipment type. The menu below allows the user to select the type of equipment they would like to view. Selecting any of the options will display the SOAPL report shown in Figure 3-B for the type of equipment selected. Subparagraphs 1 through 4 below refer to the circled Numbers on Figure 3-B.



1. Equipment/Component/Equipage Identification Lists (SOAPL) is a numerical sequence listing, by identification Number.

They are arranged in eight vertical columns, starting with the left-hand column at the top of the page, and continuing down the column to the bottom of the page. The numerical sequence listing continues in this manner in the second through the eighth vertical column.

2. Ship Type and Hull Number. The specific ship/activity for which the SOAPL is published.

3. Date. The COSAL publication date.

4. Page. Consecutive page numbering, from first to last page of each section of the SOAPL as follows:

a. ELECTRONICS AND ORDNANCE FIRE CONTROL APLs/AELs - Page numbers preceded by the letter "E" to designate Electronics.

b. ORDNANCE APLs/AELs - Page numbers preceded by the letter "Z" to designate Ordnance.

c. Hull, Mechanical & Electrical (HM&E) APLs/AELs - Page numbers preceded by the letter "H" to designate Hull, Mechanical, & Electrical.

SUMMARY OF EFFECTIVE ALLOWANCE PARTS/EQUIPAGE LISTS							
EQUIPMENT/COMPONENT/EQUIPAGE IDENTIFICATION NUMBERS							
MB003640	MB185780FC	ME018117FE	000A0222FJ	000A0222GF	00003185	00004731	00008383
MB003645	MB233539	ME018117FG	000A0222FK	000A0222GG	00003190	00004872	00008385
MB003648	MB236059	ME018117FK	000A0222FL	000A0415CL	00003305CL	00005247CL	00008393
MB003652	MB237909	SIW040017	000A0222FM	000A0433	00003307	00005984CL	00008506
MB003658	MB349926FA	OR91870001	000A0222FN	000A0541	00003454CL	00005985CL	00008597CL
MB003691	MB349926PB	OR94310002	000A0222FO	000A0560	00003636	00005986CL	00008610
MB003692	MB399295	OR94680003	000A0222FP	000A1383	00003690	00005987CL	00008667
MB003693	MB399357	OR97010001	000A0222FQ	000A2071	00004352	00006157	00008704
MB003695	MB399361	00ELEX00	000A0222FS	000A2611	00004353	00006271	00008734
MB003696	MB399363	000A0111	000A0222FT	00000514	00004356	00006430	00008779
MB003698	MB490120	000A0222	000A0222FU	00001330	00004358	00006621	00009219CA
MB003700	MB667855	000A0222FA	000A0222FV	00002195	00004361	00006881	00009323
MB003701	MB700405	000A0222FB	000A0222FX	00002576CL	00004363	00006905	00009658
MB003702	MB798607	000A0222FC	000A0222FY	00002634CL	00004364	00006991	00009659
MB003704	MB999414	000A0222FD	000A0222FZ	00002638CL	00004365	00007363	00010147
MB072508	ME018117	000A0222FE	000A0222GA	00002747	00004371	00007713	00010193
MB099916	ME018117FA	000A0222FF	000A0222GB	00003018	00004630	00008260	00010194
MB185780	ME018117FB	000A0222FG	000A0222GC	00003178	00004716	00008380	00010357
MB185780FA	ME018117FC	000A0222FH	000A0222GD	00003181	00004717	00008380FA	00010357FA
MB185780FB	ME018117FD	000A0222FI	000A0222GE	00003183	00004718	00008382	00010357FB
A TEST 6		12/18/2006		SUMMARY OF EFFECTIVE ALLOWANCE PARTS/EQUIPAGE LISTS		E 1	
SHIP TYPE HULL NO.		DATE				PAGE	

Figure 3-B Summary of Allowance Parts/Equipage Lists

COSAL INDEX – PART I, SECTION A & B

COSAL Index Part I Section A & B are arranged in alphabetical sequence by name to make the Section A listing and in alphabetical sequence by Service Application to make the Section B listing. The data can be accessed from the Index A & B tab of the COSAL Data Page which shows the COSAL Index data for the APL/AEL being viewed.

COSAL Data Page for DDG 100

APL/AEL: 00000514 COSAL DATA PAGE

Alt Num CR	PTA	SNF	TDN	N-S APLs	N-S AELs														
APL	AEL	CCF	SRI Items	OSI Items	MAMs Items														
Display Indexes A & B Index Sections "A & B" Data <table border="1"> <thead> <tr> <th>Equip/COMP/MEC</th> <th>EQUIPMENT NOMENCLATURE/CHARACTERISTICS</th> <th>APL/AEL</th> <th>QUANTITY</th> <th>COL NO.</th> <th>ASC</th> <th>SERVICE APPLICATION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>RD-420B(V)1/SQR-17, RECORDER-REPRODUCER</td> <td>00000514</td> <td>1</td> <td>JEPAA</td> <td>ANISGR-17() SONAR SIGNAL PROCESSING SET</td> <td></td> <td></td> </tr> </tbody> </table>						Equip/COMP/MEC	EQUIPMENT NOMENCLATURE/CHARACTERISTICS	APL/AEL	QUANTITY	COL NO.	ASC	SERVICE APPLICATION DESCRIPTION	RD-420B(V)1/SQR-17, RECORDER-REPRODUCER	00000514	1	JEPAA	ANISGR-17() SONAR SIGNAL PROCESSING SET		
Equip/COMP/MEC	EQUIPMENT NOMENCLATURE/CHARACTERISTICS	APL/AEL	QUANTITY	COL NO.	ASC	SERVICE APPLICATION DESCRIPTION													
RD-420B(V)1/SQR-17, RECORDER-REPRODUCER	00000514	1	JEPAA	ANISGR-17() SONAR SIGNAL PROCESSING SET															

Main Menu Search Results Search Menu Print Indexes A & B Exit

COSAL Products Menu

APL/AEL: ALL APL/AELs Naval Inventory Control Point - Mechanicsburg

COSAL PRODUCTS

- ☐ ... COSAL Summary of Allowance Parts List (SOAPL)
- ☒ ... Index Sections A & B
- ☐ ... Index Sections C, D & E
- ☐ ... Allowance Parts List (APL)
- ☐ ... Allowance Equipage List (AEL)
- ☐ ... SNSL Storeroom Items (SRI)
- ☐ ... SNSL Operating Space Items (OSI)
- ☐ ... SNSL Maintenance Assistance Module Items (MAM)
- ☐ ... Old NIIN to New NIIN
- ☐ ... Alternate Number/Part Number to NIIN Cross Ref
- ☐ ... COSAL Ship Value List (SVL)
- ☐ ... Items with Zero Allowance Quantity (Non-Computed)
- ☐ ... Component Characteristics File (CCF)
- ☐ ... Parent to Accessory (PTA)
- ☐ ... Additional Technical Document Numbers (TDN)
- ☐ ... Supplemental NIIN File (SNF)
- ☐ ... Non-Supported Allowance Parts List
- ☐ ... Non-Supported Equipage Parts List
- ☐ ... Special Category Item List
- ☐ ... Hazardous SCIL
- ☐ ... Control Equipage (CE)
- ☐ ... Fleet Allowance Aid List (FAAL)

Main Menu Exit

The COSAL Index data can also be accessed from the COSAL Products page. When the user selects "Display Indexes A & B" from the COSAL Data Page, or "Index Sections A & B" from the COSAL Products screen they will see the data displayed in the format shown on the COSAL Index A Data screen in Figure 3-C. If the user selects "Print" from the COSAL Index A Data screen they will be asked to select whether they would like to see Section A or Section B.

Index AB Selection : Form

Index Selection

☒ **Index A**
Equipment/Component/Equipage Nomenclature/Characteristics Sequence

☐ **Index B**
Service Application/Information Sequence

OK

The Section A report appears as Figure 3-D, and Section B is shown in Figure 3-E.

Subparagraphs numbered 1 through 13 below correspond to the circled numbers on all three COSAL Index figures (3-C, 3-D, 3-E).

1. Equipment/Component Military Essentiality Code (MEC). The code appearing in this column is the Mission Criticality Code (MCC). For codes and definitions, see Appendix A.

2. Equipment/Component/Equipage Nomenclature/Characteristics. The noun name and partial characteristic description of each APL, AEL, and ACL identification number.

3. Identification Number. The APL, AEL, and ACL Identification Number.

4. Quantity. The quantity of each equipment/component allowed for service aboard ship as defined by the applicable APL and ACL. The "Quantity" column is blank for all AELs.

5. Column Number. The applicable column number in the On Board Allowance Table from which the allowance is determined. This column applies to AELs only and is blank for all APLs and ACLs.

6. Allowance Support Code (ASC). A five-digit alphabetic code. The first digit indicates the Technical Cognizance Code (TCC). The second and third digits indicate the Application Identification Number Activity Code (AINAC), and the fourth and fifth digits represent the Logistic Support Status Code (LSSC) of equipment/ components. For specific codes and definitions see Appendix A.

7. Service Application/Information. The service or major shipboard function in which the equipment/component/equipage operates or performs a service.

8. Ship Type and Hull Number. The specific ship/activity for which the Index—Section A is published.

9. Date. COSAL publication date.

10. Allowance Support Codes. Provides definitions of the codes referred above.

11. Page. Consecutive page numbering, from first to last page of the Index.

12. Notes. Reserved for future COSAL use.

13. Sort Capabilities. The user positions the cursor within the desired data field and then selects the AZ or ZA on the toolbar to perform the sort function.

COSAL Database - [COSAL Index A Data]

File Edit Insert Records Window Help

Type a question for help

Index Sections "A & B" Data

PRINT

Equip/ COMP MEC	EQUIPMENT NOMENCLATURE/CHARACTERISTICS	APL/AEL	QUANTITY	COL NO.	ASC	SERVICE APPLICATION DESCRIPTION (SAD)	SAC
V	VALVE GLB .25IPS 400PSI SBU BRZ	882054952	93		HSPAA	ELECTRONICS-EQPT COOLING-PIPING	0ASFL
V	VALVE GLB .25IPS 400PSI SBU BRZ	882054952	91		HSPAA	DRAIN COLLECTING-PIPING-STM X WTR X WST WTR X WST OI	0AQAZ
V	CIRCUIT BREAKER AGB 100FR 50TRP 250-700TRML	149990064	90		HSPAA	ELECTRIC POWER DISTRIBUTION-POWER PANEL	0AXHN
V	PANEL PWR DISTRN 9S4759LALT8	509990001	9		HSPAA	ELECTRIC POWER DISTRIBUTION-POWER SYSTEM TRANSFER	0ANQJ
V	FILTER AIR ELCTSTC 423298&007	480790074	9		HSPAA	VENTILATION SYSTEM	0VENT
V	VALVE GATE 3.00IPS 100PSI FLGE BRZ	882046524	9		HSPAA	STEAM X EXHAUST-PIPING-AUX STEAM	0ABSD
V	TRANSDUCER, PRESS DIFF PGT-SW-200-G2	619990730	9		HSPAA	FIRE FIGHTING-PIPING-FIRE MAIN	0ABAL
V	VALVE CHK HYD OPER .37IPS 250PSI SBU BRZ	882241524	9		HSPAA	FIRE FIGHTING-PIPING-MAGAZINE	0ABAM
V	DOOR MRN ATGT QA26INX54IN 6DOG 2.0PSI LH	312020032	9		HSPAA	ACCESS-DOOR	0AUEY
V	INDICATOR SSP DWG 4103-1	870060037	9		JSPAA	IC-CIRCUIT Y UNDERWATER LOG SYSTEM	0AAMC
V	FUSE UNIT ASSY 50X75X100AMP FCNTD	149990099	9		HSPAA	ELECTRIC POWER DISTRIBUTION-LOAD CTR 12 SWITCHBOARD	0AYUC
V	SWTCH RTY TY 8-6S	219990221	9		HSPAA	LIGHTING SPACE-CONTROL	0AGGR
V	TRANSFORMER PWR STPDN 7.5KVA 450/120V 60CYC	139990058	9		HSPAA	ELECTRIC POWER DISTRIBUTION-TRANSFER-POWER	0ALUE
V	CIRCUIT BREAKER AGB-A101FR 25HTRP 125- 350TRML	149990070	9		HSPAA	ELECTRIC POWER DISTRIBUTION-400 CYCLE	0ANRX
V	VALVE GLB .75IPS 600PSI SWLDG STL	882055627	9		HSPAA	STEAM X EXHAUST-PIPING-AUX STEAM	0ABSD
V	VALVE CHK STP GLB .50IPS 200PSI SBU BRZ	882034687	9		HSPAA	HEATING SYSTEM-PIPING-STEAM DRAINS	0ACGY
V	VALVE GATE .50IPS 400PSI SBU BRZ	882047522	9		HSPAA	FRESH WATER SYSTEM-ELECTRONIC EQUIPMENT COOLING	0APBC
V	SWTCH ASSY 1ELMT 1PSH	219990530	9		HSPAA	IC-CIRCUIT 1E	0AXAQ
V	TERMINAL BOX TEL CONN TY 6TB6C-2	999970021	9		HSPAA	IC-AUDIBLE X VISIBLE SIGNAL SYSTEM	0AGIN
V	VALVE GLB 3.00IPS 100PSI FLGE BRZ	882051541	9		HSPAA	DRAIN COLLECTING-PIPING-STM X WTR X WST WTR X WST OI	0AQAZ
V	VALVE GATE 1.25IPS 600PSI SWLDG STL	882049521	9		HSPAA	PROPULSION	0AKBP
V	TERMINAL BOX SHPBD P X L TY 2-4TB20M-2	999970030	9		HSPAA	IC-CIRCUIT 32MC	0AGHN
V	LIGHT IND TY B27B	239990043	9		HSPAA	VENTILATION X AIR CONDITIONING	0AWTV
V	PANEL PWR DISTRN 9-S-5196-L	509990016	9		HSPAA	ELECTRIC POWER DISTRIBUTION-POWER SYSTEM TRANSFER	0ANQJ
V	VALVE GATE 1.50IPS 400PSI MTHRD BRZ	882047489	9		HSPAA	FIRE FIGHTING-AQUEOUS FILM FORMING FOAM SYSTEM	0AZDS
V	VALVE PLT TEMP CONT 1.00IPS 150PSI FLGE BRZ	882220457	9		HSPAA	AUXILIARY MACHINERY SALT WATER COOLING SYSTEM PIP	0AKKN
V	VALVE GLB DPHRM PK BACK ST 1.125ODS SWT ENDS	882100004	9		HSPAA	REFRIGERATION-SHIP STORES	0AMVK
V	VALVE FLOW REGG .75IPS 150PSI SBU BRS	889900514	9		HSPAA	ELECTRONICS-EQPT COOLING-PIPING	0ASFL

Figure 3-C COSAL Index A Data Screen

COSAL INDEX-PART I (SECTION A)							
EQPT COMP. REC	EQUIPMENT/COMPONENT/EQUIPAGE NOMENCLATURE/CHARACTERISTICS	IDENTIFICATION NUMBER	QUAN- TITY	COL NO	NOTES	*ALLOW. SUPT. CODE	SERVICE APPLICATION INFORMATION
V	033-2558 (83008), TRANSFORMER, POWER	38300830	1			EEPF D	TEST
V	1022(89280), INDICATOR, PHASE SEQ	00022229	1			EEPF D	TEST
V	10310-9(01496), INDICATOR	00038764	1			JEPFD	TEST
V	10400-03-05(55597), TEST SET, ELECTRICAL	00026671	1			JEPAA	TEST
V	115180(82872), HEADSET	38279820	11			JEPFD	RADIO
V	130545-100(13973), DISTRIBUTION BOX	31397378	2			EEPA A	RADIO
V	130628-100(13973), DISTRIBUTION BOX	31397380	1			EEPA A	RADIO TRANSCIVER
V	145-G-872(23338), GENERATOR, FUNCTION	00009323	1			EEPA A	TEST
V	15020-04/NB(80009), TEST SET, ELECTRICAL	00040837	1			JEPAA	TEST
V	175-AV/53A/58(80164), MULTIMETER	00024892SA	3			JEPAA	TEST
V	18N-20(64671), FIXED ATTENUATOR	00035919	1			JEPFD	TEST
V	193D1524G4(1PNR4), DAMAGE CONTROL CAB (TAIWAN)	00047597	3			JEPAA	ANSRC-53(W), COMMUNICATION SYSTEM
V	2-30(93459)	39345914	1			EEPF E	TEST
V	2-40(93459)	39345915	1			EEPF E	TEST
A TEST 6		12/18/2006	1st. Digit - Bureau/Cognizance 2nd. 3rd. Digit - Region/Support Activity 4th. 5th. Digit - Logistic Support Element		1	A	1
SHIP TYPE/HULL NO.		DATE	ALLOWANCE SUPPORT CODES		PART	SECTION	PAGE

Figure 3-D COSAL Index Part I Section A

COSAL INDEX-PART 1 (SECTION B)						
SERVICE APPLICATION/INFORMATION	EQUIPMENT COMPONENT	EQUIPMENT COMPONENT/EQUIPAGE NOMENCLATURE/CHARACTERISTICS	IDENTIFICATION NUMBER	QUANTITY	COL. NO.	NOTES
ABANDON SHIP-LIFESAVING EQUIPMENT	V	EMERGENCY ESCAPE BREATHING DEVICE QTY 9-12	2-330024031	1	5	HSQAA
	V	LIFE BOAT AIR INFLATABLE MK-7 25 PERSON CAPACITY	2-820374013	1	1	HSQAA
	V	LIFE PRESERVER CO2 INFL (ABANDON SHIP)	2-330014013	1	8	HSQAA
	V	LIFE PRESERVER UTILITY AUTO-INFL AND NON-INFL	2-330014144	1	5	HSQAA
	V	BUOY LIFE RING X ACCESSORIES 30 IN	2-120014049	1	6	HSQAA
	V	HARNESS ASSY SFTY SURFACE CRAFT QTY 9-12	2-330023059	1	2	HSQAA
	V	LIFE BOAT AIR INFLATABLE MK-7 25 PERSON CAPACITY	2-820374012	1	7	HSQAA
	V	EMERGENCY ESCAPE BREATHING TRG DEVICE	2-330024038	1	8	HSQAA
	V	EMERGENCY ESCAPE BREATHING DEVICE QTY 100-800	2-330024033	1	5	HSQAA
	V	BOAT AUTHORIZED ABDN SHP OPT QTY 1-6	2-820064001	1	2	HSQAA
	V	APPROVED MACHINERY ALTERATION ECP 418	99099A001	1		HSQAA
	V	AIR SEA RESCUE KIT ASR QTY 1-2	2-830024002	1	1	HSQAA
	V	EMERGENCY ESCAPE BREATHING DEVICE QTY 1-8	2-330024030	1	8	HSQAA
	V	SUPPLEMENTARY EMERGENCY EGRESS DEVICE	2-330024042	1	3	HSQAA
	V	SUPPLEMENTARY EMERGENCY EGRESS DEVICE	2-330024041	1	6	HSQAA
ACCESS	V	LADDER JACOBS CHAIN TY 15FT LG	2-160014013	1	1	HSQAA
	V	STAGES METAL FOLDING QTY 1-8	2-160014071	1	5	HSQAA
	V	LADDER DIVERS	2-950014025	1	1	HSQAA
	V	DOOR MRN WTINDV DG26INX54IN 8 DOG 16.0PSI LH	312090056	1		HSPAA
	V	DOOR MRN WTINDV DG26INX66IN 8 DOG 10.0PSI RH	312090013	1		HSPAA
	V	DOOR MRN WTQA 26INX45IN 8 DOG 20.0PSI RH	312090023	1		HSPAA
	V	ACCESS COVERS	999050001	1		HSPAA
	V	HATCH SPRING BALANCE RAISED WT 24IN X 30IN	313050165	4		HSPAA
	V	SCUTTLE MRN RSD WTQA 21INX30IN 5PSI 6.0IN HG	314010001	5		HSPAA
	V	SCUTTLE FLUSH WTQA 21IN	313170018	2		HSPAA
	V	SCUTTLE RAISED, LOW PROFILE, WTQA 21IN	313170017	1		HSPAA
	V	HATCH WUT SCTL RSD WT36INX42IN106 LT15PSI SHTSD	313050034	2		HSPAA
A TEST 6	12/18/2006	1	B	1		
SHIP TYPE/HULL NO.	DATE	ALLOWANCE SUPPORT CODES	PART	SECTION	PAGE	

Figure 3-E COSAL Index Part I Section B

COSAL INDEX – PART I, SECTION C, D, & E

COSAL Index Part I Section C, D & E are arranged in sequence by APL/AEL to Equipment Identification Code (EIC) (Part I Section C), by Equipment Identification Code (EIC) to Allowance Parts List (APL)/Allowance Equipage List (AEL) (Part I Section D), and by AILSIN/Functional Group Code (FGC) to APL/AEL (Part I Section E). The data can be accessed from the Index C, D, & E tab of the COSAL Data Page which shows the COSAL Index data for the RIC being viewed.

APL/AEL	AINAC	EOPT ID CODE	AILSIN FUNCT GP CD	SERVICE CODE	WORK CNTR	COMPONENT NAME	MAINTENANCE INDEX PAGE	RIN	QTY COL NO.	EQUIPMENT LOCATION	SE V
00000514	EP	R19D000	4621715	462SQR17	CSA1	RD-420B(V)1/		00F7J	1	02-150-2-C	EZ9

The COSAL Index data can also be accessed from the COSAL Products page.

APL/AEL: ALL APL/AELs

COSAL PRODUCTS
Naval Inventory Control Point - Mechanicsburg

- ☐ ... COSAL Summary of Allowance Parts List (SOAPL)
- ☐ ... Index Sections A & B
- ☒ ... Index Sections C, D & E
- ☐ ... Allowance Parts List (APL)
- ☐ ... Allowance Equipage List (AEL)
- ☐ ... SNSL Storeroom Items (SRI)
- ☐ ... SNSL Operating Space Items (OSI)
- ☐ ... SNSL Maintenance Assistance Module Items (MAM)
- ☐ ... Old NIIN to New NIIN
- ☐ ... Alternate Number/Part Number to NIIN Cross Ref
- ☐ ... COSAL Ship Value List (SVL)
- ☐ ... Items with Zero Allowance Quantity (Non-Computed)
- ☐ ... Component Characteristics File (CCF)
- ☐ ... Parent to Accessory (PTA)
- ☐ ... Additional Technical Document Numbers (TDN)
- ☐ ... Supplemental NIIN File (SNF)
- ☐ ... Non-Supported Allowance Parts List
- ☐ ... Non-Supported Equipage Parts List
- ☐ ... Special Category Item List
- ☐ ... Hazardous SCIL
- ☐ ... Control Equipage (CE)
- ☐ ... Fleet Allowance Aid List (FAAL)

When the user selects “Display Indexes C, D, & E” from the COSAL Data Page, or “Index Sections C, D & E” from the COSAL Products screen they will see the data displayed in the format shown on the COSAL Index C Data screen shown in Figure 3-F. If the user selects “Print” from the COSAL Index C Data screen they will be asked to select whether they would like to see Section C, Section D, or Section E.

Index CDE Selection : Form

Index Selection

☒ **Index C** APL/AEL to EIC to AILSIN/FGC

☐ **Index D** EIC to APL/AEL

☐ **Index E** AILSIN to APL/AEL

OK

The Section C report appears as Figure 3-G, the Section D report appears as Figure 3-H, and Section E is shown in Figure 3-I. Subparagraphs numbered 1 through 18 below correspond to the circled numbers on all four COSAL Index figures (3-F, 3-G, 3-H, 3-I).

1. The Allowance Parts List (APL) Number/Allowance Equipage List (AEL) Number

2. The Application/Identification Number Activity Code (AINAC). This is the second and third character of the Allowance Support Codes (ASC). For codes and definitions, see Appendix A.

3. Equipment Identification Code (EIC). Assigned to equipments/components to indicate their relative position in a shipboard system. These codes will be used by shipboard personnel in reporting maintenance actions under the ship's Maintenance and Material Management (3-M) Systems. The EIC is used to identify, for maintenance purposes, the functional location, or relative position, of an equipment or assembly within a weapon system or subsystem hierarchy. EIC assignments can be subjective for a class of ships. OPNAVINST 4790.4 Series defines standard EIC. EIC assignments are used to determine the Mission Criticality

Code (MCC) based on a look-up table in the Configuration Data Management Database-Open Architecture (CDMD-OA) database. The MCC indicates the impact that failure of the configuration item would have on the mission capability of the ship. It is used on Modified Fleet Logistics Support Improvement Program (MOD-FLSIP) ships to determine onboard spare part allowances. On a particular ship or ship class, the value of an EIC corresponds to one MCC value. For MCC codes and definitions, see Appendix A.

4. Automated Integrated Language System Identification Number (AILSIN)/Functional Group Code (FGC). The column headed AILSIN/FGC represents the Hierarchical Structure Code (HSC). The HSC is the top-down breakdown numbering system that defines the hierarchical structure of the configuration of the ship and its systems. The HSC is a key reference number used in planning all levels of maintenance (particularly Intermediate and Depot level maintenance), managing logistics support, organizing technical documentation, and performing design work throughout the life of the ship. Additional details for HSC creation are contained in the NAVSEA Technical Specification 9090-700B, SCLSIS.

5. Service Application Code (SAC). A code used by NAVICP-M to enter the service application of an equipment/component into the WSF. The SAC is used to group equipments, components, assemblies, etc., according to a particular service application onboard ship. This code is similar to the HSC in purpose, but unlike the HSC, it does not provide a hierarchical structure. SAC assignments can be very subjective. The CDM should define standard SAC usage for a class to eliminate any ambiguity. There are approximately 22,000 different SAC values available electronically on the Cross-Reference fFile (CRF) CD-ROM from NAVICP-M. The SAC provides a primary index to the COSAL.

6. Work Center. Designates the subdivision of the ship's crew assigned to accomplish maintenance requirements for a specified installed equipment.

7. Component Name. The noun name of each APL or AEL.

8. Maintenance Index Page (MIP). A coded page number of the master Preventive Maintenance System (PMS) Manual which indexes a set of maintenance requirement cards for a specific installed piece of ship equipment. The ships 3-M coordinator and work centers should take responsibility to maintain MIPs for all equipments identified in column 8. This information is a good validation tool for PMS inspections.

9. Record Identification Number (RIN). If initialized under Ship Configuration and Logistics Support Information System (SCLSIS), assigned by the CDM, If non-initialized, assigned by NAVICP-M.

10. Quantity/Column. The quantity of each equipment/component aboard ship or the applicable reference column number for equipage.

11. Equipment Location. Identifies the location of the installed component within the end-use activity/ship.

12. Serial Number/Valve Mark/Electric Symbol Number. The Serial Number identifies a specific unit of production. The Valve/Mark/Electric Symbol Number identifies a specific valve or electrical component used within a system when multiple applications of the same component are present within the same system. Serves as a method of identity. The ships 3-M coordinator and work centers should take the responsibility to identify and maintain the serial numbers for all equipments.

13. Federal Supply Code for Manufacturers (FSCM)/Commercial and Government Entity (CAGE). A five-digit numeric code that identifies a specific manufacturer for an equipment/component. The ship's 3-M coordinator and work centers should take the responsibility to identify and maintain the CAGE for all equipments. The CAGE can be identified on the CRF CD-ROM.

14. Equipment/Component Military Essentiality Code (MEC). The code appearing in this column is the Mission Criticality Code (MCC). For codes and definitions, see Appendix A.

15. Ship Type and Hull Number. The specific ship/activity for which the Indexes are published.

16. Date. COSAL publication date.

17. Page No. Consecutive page numbering from first page to last page of Index.

18. Sort Capabilities. The user positions the cursor within the desired data field and then selects the AZ or ZA on the toolbar to perform the sort function.

COSAL Database - [COSAL Index C Data]

File Edit Insert Records Window Help

Type a question for help

Index Sections C, D & E Data

PRINT

1 APL/AEL	2 AINAC	3 EOPT ID CODE	4 AILSIN FUNCT GP CD	5 SERVICE CODE	6 WORK CNTR	7 COMPONENT NAME	8 MAINTENANCE INDEX PAGE	9 RIN	10 QTY COL NO.	11 EQUIPMENT LOCATION	12 SER. NO/ VALVE MARK	13 CAGE
00000514	EP	R19D000	4621715	462SQR17	CSA1	RD-420B(V)1/		00F7J	1	02-150-2-C	EZX0085	54089
00001330	EP	QD6B000	4415133	76901RADIO	CSE1	CY-7942/U, C		00P1P	1	02-220-0-C	93UD	12049
00002195	EP	M31C000	43411133	433SIH7	EE05	RD-338/SIH-7		01200	1	2-236-1-A	AC1	12763
00002195	EP	M31C000	434111331	433SIH7	EE05	RD-338/SIH-7		01201	1	2-236-1-A	AC8	12763
00002576CL	EP	QC00000	4416251	70001RADIO	CSE1	OA-8983/SRT,		01964	1	02-188-0-C	A1	13973
00002634CL	EP	WA4P000	441812	70941RADIO	CSE1	ANURQ-29(V)		00QAN	1	02-220-0-C	D1	92755
00002638CL	EP	Q300000	4416211	70001RADIO	CSE1	OA-8982(V)/S		01918	1	02-188-0-C	A2	13979
00002747	EP	Q900000	4412121M	70341RADIO	CSE1	PP-7818/SR,		05122	1	02-188-0-C	B1	92755
00003018	EP	QE00000	441313112	79001RADIO	CSE1	T-1322A/SRC,		04290	1	02-220-0-C	A1	92755
00003018	EP	QE00000	441311211	79001RADIO	CSE1	T-1322A/SRC,		04291	1	02-220-0-C	A4	92755
00003018	EP	QE00000	441313212	79001RADIO	CSE1	T-1322A/SRC,		04289	1	02-220-0-C	A5	92755
00003018	EP	QE00000	441313211	79001RADIO	CSE1	T-1322A/SRC,		04287	1	02-220-0-C	A1	92755
00003018	EP	QE00000	4413121	79001RADIO	CSE1	T-1322A/SRC,		04292	1	02-220-0-C	A1	92755
00003018	EP	QE00000	4413124	79001RADIO	CSE1	T-1322A/SRC,		04286	1	02-220-0-C	A30	92755
00003018	EP	QE00000	441313111	79001RADIO	CSE1	T-1322A/SRC,		04285	1	02-220-0-C	A6	92755
00003018	EP	QE00000	441311214	79001RADIO	CSE1	T-1322A/SRC,		04288	1	02-220-0-C	A7	92755
00003178	EP	P34G000	452496	452SPS49	CSE3	AN/SPM-23A,		9597B	1	03-188-0-C	L2	49956
00003181	EP	P34G000	452493	452SPS49	CSE3	CV-3689/SPS-		9591B	1	03-188-0-C	L3	49956
00003183	EP	P34G000	452497	452SPS49	CSE3	C-10939/SPS-		9609B	1	02-139-0-C	L2	49956
00003185	EP	P34G000	452494	452SPS49	CSE3	R-2199/SPS-4		9593B	1	03-188-0-C	L3	49956
00003190	EP	P34G000	452492	452SPS49	CSE3	T-1297A/SPS-		9589B	1	03-188-0-C	L3	49956
00003305CL	EP	P34G000	45249	452SPS49	CSE3	AN/SPS-49(V)		9585B	1	03-188-0-C	L158	49956
00003307	EP	P34G000	452495	452SPS49	CSE3	CV-3690/SPS-		9595B	1	03-188-0-C	L3	49956
00003454CL	EP	5255150	482142152	0VAWVG	CSF6	OL-335(V)/U,		0689C	1	04-260-0-C	2158	90536
00003454CL	EP	P16F000	450118132	450SYS2	CSF2	OL-335(V)/U,		00J4U	1	01-138-0-C	A1482	90536
00003454CL	EP	P16F000	450118112	450SYS2	CSF2	OL-335(V)/U,		0235C	1	01-138-0-C	A1493	90536
00003454CL	EP	5255150	48214152	0VAWVF	CSF6	OL-335(V)/U,		0615C	1	04-260-0-C	TARTAR	90536
00003454CL	EP	5251300	48214162	0VAWVF	CSF6	OL-335(V)/U,		0652C	1	04-260-0-C	TARTAR	90536

Figure 3-F COSAL Index C Data Screen

1	2	3	4	5	6	7	8	9	10	11	12	13	
COSAL INDEX-PART 1 SECTION C) - APL/AEL TO EIC TO AILSIN/RGC													
APL/AEL	AI NC	EQUIP ID CODE	AILSIN FUNCT GRP CD	SERVICE CODE	WORK CNTR	COMPONENT NAME	MAINTENANCE INDEX PAGE	RECORD ID NO.	QTY/ COL	EQUIPMENT LOCATION	SER NO /VALVE MK/ELEC SYMB NO.	FSCM	
00000514	EP	R19D000	4621715	46290R17	CSA1	RD-4206(V)1/		00F7J	1	02-150-2-C	EZX0085	54089	
00001330	EP	QD6B000	4415133	76901RADIO	CSE1	CY-7942/U, C		00P1P	1	02-220-0-C	93UD	12049	
00002195	EP	M31C000	43411133	433SIH7	EE05	RD-338/SIH-7		01200	1	2-236-1-A	AC1	12763	
00002195	EP	M31C000	434111331	433SIH7	EE05	RD-338/SIH-7		01201	1	2-236-1-A	AC8	12763	
00002576CL	EP	QC00000	4416251	70001RADIO	CSE1	OA-8983/SRT,		01964	1	02-188-0-C	A1	13973	
00002634CL	EP	WA4P000	441812	70941RADIO	CSE1	AN/URQ-29(V)		00QAN	1	02-220-0-C	D1	92755	
00002638CL	EP	Q300000	4416211	70001RADIO	CSE1	OA-8982(V)/S		01918	1	02-188-0-C	A2	13979	
00003178	EP	P34G000	452496	452SPS49	CSE3	AN/SPM-23A,		95978	1	03-188-0-C	L2	49956	
00003181	EP	P34G000	452493	452SPS49	CSE3	CV-3689/SPS-		95918	1	03-188-0-C	L3	49956	
00003183	EP	P34G000	452497	452SPS49	CSE3	C-10939/SPS-		96098	1	02-139-0-C	L2	49956	
00003185	EP	P34G000	452494	452SPS49	CSE3	R-2199/SPS-4		95938	1	03-188-0-C	L3	49956	
00003190	EP	P34G000	452492	452SPS49	CSE3	T-1297A/SPS-		95898	1	03-188-0-C	L3	49956	
DDG 1803						07-03-06					1	C	1
SHIP TYPE-TYPE HULL NO.						DATE					PART	SECTION	PAGE

COSAL INDEX-PART 1 (SECTION D) - EIC TO APL/AEL															
EQUIP ID CODE	APL/AEL	AI NC	MCC MEC	EQUIP ID CODE	APL/AEL	AI NC	MCC MEC	EQUIP ID CODE	APL/AEL	AI NC	MCC MEC	EQUIP ID CODE	APL/AEL	AI NC	MCC MEC
Q86P000	M8003640	EP	V	Q86P000	M8003640	EP	V	Q86P000	M8003640	EP	V	Q86P000	M8003640	EP	V
QE00000	M8003645	EP	V	QE00000	M8003645	EP	V	QE00000	M8003645	EP	V	QE00000	M8003645	EP	V
WA4P000	M8003648	EP	V	WA4P000	M8003648	EP	V	WA4P000	M8003648	EP	V	WA4P000	M8003648	EP	V
QEA8000	M8003652	EP	V	QEA8000	M8003652	EP	V	QEA8000	M8003652	EP	V	QEA8000	M8003652	EP	V
QEA8000	M8003652	EP	V	QEA8000	M8003652	EP	V	QEA8000	M8003652	EP	V	QEA8000	M8003652	EP	V
QJ3D000	M8003658	EP	V	QJ3D000	M8003658	EP	V	QJ3D000	M8003658	EP	V	QJ3D000	M8003658	EP	V
Q987000	M8003691	EP	V	Q987000	M8003691	EP	V	Q987000	M8003691	EP	V	Q987000	M8003691	EP	V
Q800000	M8003700	EP	V	Q800000	M8003700	EP	V	Q800000	M8003700	EP	V	Q800000	M8003700	EP	V
QEA8000	M8003701	EP	V	QEA8000	M8003701	EP	V	QEA8000	M8003701	EP	V	QEA8000	M8003701	EP	V
QEA8000	M8003701	EP	V	QEA8000	M8003701	EP	V	QEA8000	M8003701	EP	V	QEA8000	M8003701	EP	V
Q800000	M8003702	EP	V	Q800000	M8003702	EP	V	Q800000	M8003702	EP	V	Q800000	M8003702	EP	V
QE00000	M8003704	EP	V	QE00000	M8003704	EP	V	QE00000	M8003704	EP	V	QE00000	M8003704	EP	V
DDG 1803						07-03-06						1	D	1	
SHIP TYPE-TYPE HULL NO.						DATE						PART	SECTION	PAGE	

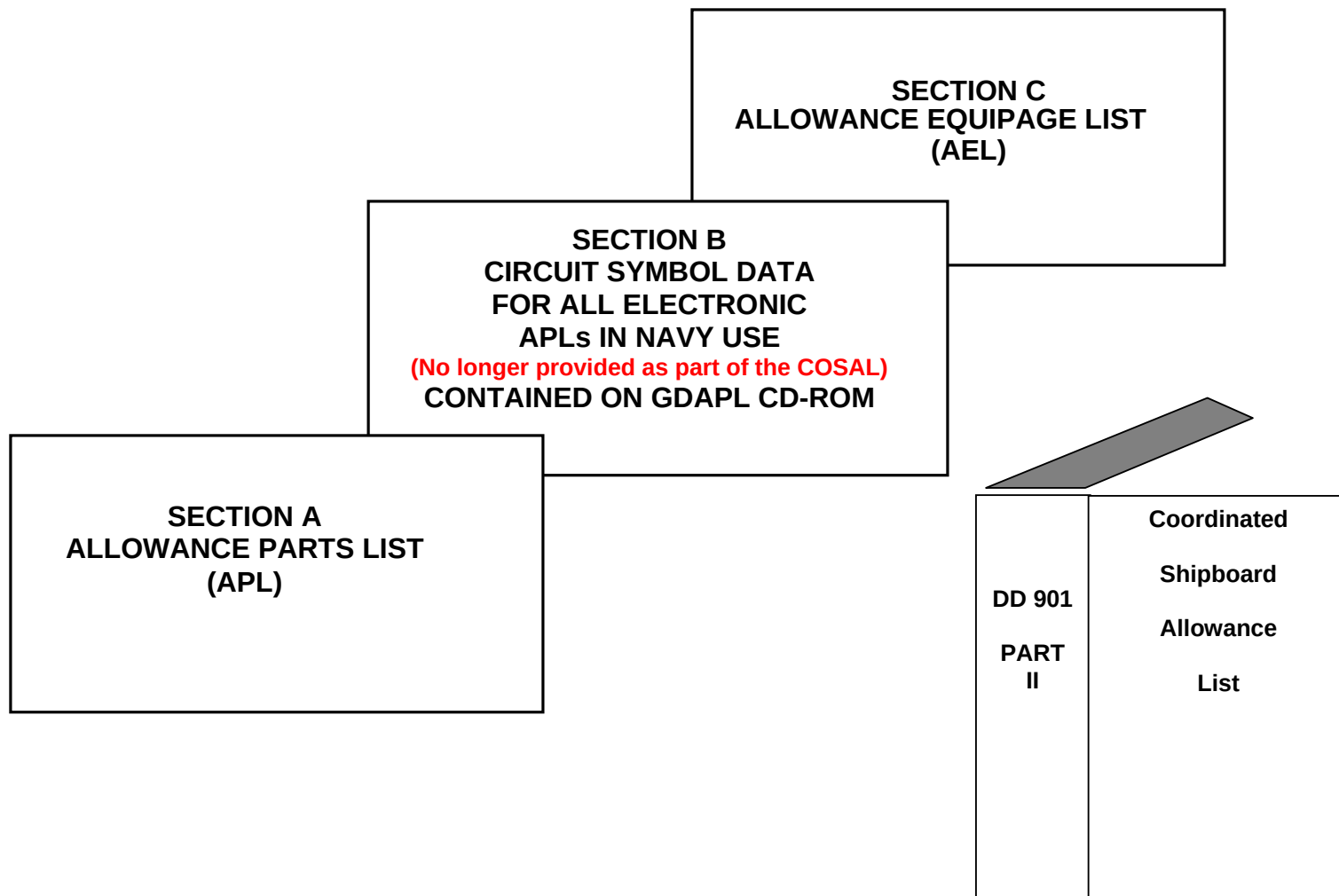
Figure 3-H COSAL Index Part I Section D

COSAL INDEX-PART 1 (SECTION E) - AILSIN TO APL/AEL											
AILSIN FUNCTGRP CD	APL/AEL	AI NC	AILSIN FUNCTGRP CD	APL/AEL	AI NC	AILSIN FUNCTGRP CD	APL/AEL	AI NC	AILSIN FUNCTGRP CD	APL/AEL	AI NC
4621715	00000514	EP	4621715	00000514	EP	4621715	00000514	EP	4621715	00000514	EP
4415133	00001330	EP	4415133	00001330	EP	4415133	00001330	EP	4415133	00001330	EP
43411133	00002195	EP	43411133	00002195	EP	43411133	00002195	EP	43411133	00002195	EP
434111331	00002195	EP	434111331	00002195	EP	434111331	00002195	EP	434111331	00002195	EP
4416251	00002576CL	EP	4416251	00002576CL	EP	4416251	00002576CL	EP	4416251	00002576CL	EP
441812	00002634CL	EP	441812	00002634CL	EP	441812	00002634CL	EP	441812	00002634CL	EP

452492	00003190	EP	452492	00003190	EP	452492	00003190	EP	452492	00003190	EP
45249	00003305CL	EP	45249	00003305CL	EP	45249	00003305CL	EP	45249	00003305CL	EP
452495	00003307	EP	452495	00003307	EP	452495	00003307	EP	452495	00003307	EP
482142152	00003454CL	EP	482142152	00003454CL	EP	482142152	00003454CL	EP	482142152	00003454CL	EP
DDG 1803			07-03-06			1			E		
SHIP TYPE-TYPE HULL NO			DATE			PART			SECTION		

Figure 3-I COSAL Index Part I Section E

B. COSAL PART II



Contents of COSAL PART II

ALLOWANCE PARTS LIST (APL) COSAL PART II SECTION A

The APL is a technical/supply document prepared for individual equipments/components and their repair parts. APLs are made up of two sections: Section A, which contains characteristics, Part Number/NSN data, allowance data, and the On Board Allowance Table; and Section B, which contains Circuit Symbol or Part Number breakdown data (available on GDAPL CD-ROM). Subparagraphs 1 through 28 refer to the circled numbers shown on Figures 3-J and 3-K.

1. Equipment/Component Nomenclature/Characteristics. Name of equipment/component.
2. Manual/Plan. The predominant technical manual and plan number. See subparagraph 10 below for additional numbers and/or information.
3. Identification Number. The Electronics APL identification number which applies to a specific equipment/component; eight digits for Ordnance Fire Control and Electronics; nine digits for HM&E and Ordnance. For Prefix and Suffix Codes, see Appendix A.
4. Date. COSAL publication date.
5. Page. Consecutive page numbering of all the pages required describing one equipment/component, covered by one APL identification number. APLs requiring one or more pages for the printing of data will have the word "END" printed on the page immediately following the last line of data for the identification number.

6. Characteristics. A general description, characteristics, and/or other identifying information concerning the equipment/component named in subparagraph 1 above.

7. Accessory Components Applicable to a "Parent Equipment" are listed on the "parent" APL. The accessories/components listed on the ship's Parent APL/ACL are those accessories/components entered in the WSF from CDMD-OA SCLIS database, site validation, change reporting, or other reporting method. The accessories/components listed on the APL/ACL would all be accessories/components applicable to a Parent APL/ACL. Any additional accessory components not listed on the APL should be reported to NAVICP-M.

8. Federal Supply Code for Manufacturers (FSCM)/Commercial and Government Entity (CAGE).

9. Reference/Symbol Number. This number is usually a manufacturer's part or drawing number but can be a T-NICN or P-NICN, which ties together the NSNs of Section A and the Reference Symbol Number of Section B contained in the GDAPL CD-ROM.

10. Additional Data Area. When additional manuals and/or plan numbers are applicable or appropriate, they will be listed in this area under an appropriate caption. These numbers are in addition to those listed in subparagraphs 2 and 6. The phrase "included in" after a manual number indicates the manual number for the component's parent equipment. This data appears on a provisioning APL or GDAPL not on a COSAL APL. This data for COSAL is contained in Part III Section D.

ALLOWANCE PARTS LIST (APL) COSAL PART II SECTION A

When the user has navigated to the Electronic (ELEX), Ordnance (ORD), or Hull, or Mechanical, & Electrical (HM&E) APL they are interested in, the COSAL Data Page is displayed. The below example identifies each field that will be displayed for an Electronics APL search, the same type of information would be displayed for ORD or HM&E. The follow on screen will provide detailed information on each section of the APLs.

COSAL Data Page for DDG 100

APL/AEL: 00000514 COSAL DATA PAGE

Alt Num CR PTA SNF TDN N-S APLs N-S AELs

APL AEL CCF SRI Items OSI Items MAMs Items Non-Computed Items Old to New Indexes A & B Indexes C,D & E

Display All APLs Allowance Parts List for selected APL

APL	PART NUMBER	CAGE	ITEM NAME	COG	MCC	FSC	NIIN	SMIC	PART MEC	SC	MAIN
00000514	RN55C3921F	81349	RESISTOR, FIXED FILM	9N		5905	000035782		1	PA	DZ
00000514	600798-01	54089	INSULATOR	9B		5970	000040112		1	PA	DZ
00000514	RN55D1502F	81349	RESISTOR, FIXED, FILM	9N		5905	000046118		1	PA	DZ
00000514	RNC55H5112FP	81349	RESISTOR, FIXED FILM	9N		5905	000052880		1	PA	DZ
00000514	RNC55H9090FP	81349	RESISTOR, FIXED FILM	9N		5905	000052883		1	PA	DZ
00000514	RNC55H3012FP	81349	RESISTOR, FIXED FILM	9N		5905	000052902		1	PA	DZ
00000514	M39014/01-1277	81349	CAPACITOR, CERAMIC	9N		5910	000108666		1	PA	DZ
00000514	M39014/01-1489	81349	CAPACITOR, CERAMIC	9N		5910	000108715		1	PA	DZ
00000514	M39014/01-1513	81349	CAPACITOR, CERAMIC	9N		5910	000108717		1	PA	DZ
00000514	CK06BX103K	81349	CAPACITOR, CERAMIC	9N		5910	000108718		1	PA	DZ
00000514	600836-02	54089	CONTACT, ELECTRICAL	9B		5999	000212118		1	PA	DZ

Main Menu Search Results Search Menu Print 00000514 Exit

Figure 3-J Allowance Parts List Part II Section A display (1 of 2)

COSAL Data Page for DDG 100

APL/AEL: 00000514 COSAL DATA PAGE

Alt Num CR			PTA		SNF		TDN		N-S APLs		N-S AELs																																																																																																																																																																																																			
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APL <table border="1"> <thead> <tr> <th>ME</th> <th>COG</th> <th>MCC</th> <th>FSC</th> <th>NIIN</th> <th>SMIC</th> <th>PART MEC</th> <th>SC</th> <th>MAINT</th> <th>RECOV</th> <th>SUPP SRCE</th> <th>NOTES</th> <th>QTY in ONE COMP</th> <th>UI</th> <th>ALL ITEM</th> </tr> </thead> <tbody> <tr><td></td><td>9N</td><td></td><td>5905</td><td>000035782</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>2</td><td>EA</td><td></td></tr> <tr><td></td><td>9B</td><td></td><td>5970</td><td>000040112</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>1</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5905</td><td>000046118</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>1</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5905</td><td>000052880</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>4</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5905</td><td>000052883</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>1</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5905</td><td>000052902</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>1</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5910</td><td>000108666</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>7</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5910</td><td>000108715</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>30</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5910</td><td>000108717</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>90</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5910</td><td>000108718</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>2</td><td>EA</td><td></td></tr> <tr><td></td><td>9B</td><td></td><td>5999</td><td>000212118</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>2</td><td>EA</td><td></td></tr> <tr><td></td><td>9N</td><td></td><td>5904</td><td>000000004</td><td></td><td>1</td><td>PA</td><td>DZ</td><td>Z</td><td></td><td></td><td>12</td><td>EA</td><td></td></tr> </tbody> </table>												ME	COG	MCC	FSC	NIIN	SMIC	PART MEC	SC	MAINT	RECOV	SUPP SRCE	NOTES	QTY in ONE COMP	UI	ALL ITEM		9N		5905	000035782		1	PA	DZ	Z			2	EA			9B		5970	000040112		1	PA	DZ	Z			1	EA			9N		5905	000046118		1	PA	DZ	Z			1	EA			9N		5905	000052880		1	PA	DZ	Z			4	EA			9N		5905	000052883		1	PA	DZ	Z			1	EA			9N		5905	000052902		1	PA	DZ	Z			1	EA			9N		5910	000108666		1	PA	DZ	Z			7	EA			9N		5910	000108715		1	PA	DZ	Z			30	EA			9N		5910	000108717		1	PA	DZ	Z			90	EA			9N		5910	000108718		1	PA	DZ	Z			2	EA			9B		5999	000212118		1	PA	DZ	Z			2	EA			9N		5904	000000004		1	PA	DZ	Z			12	EA	
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Main Menu Search Results Search Menu Print 00000514 Exit

Figure 3-J Allowance Parts List Part II Section A display (2 of 2)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS				TECHNICAL DOCUMENT NUMBER	MANUAL	IDENTIFICATION NO	DATE	PAGE
CONTROLLER MOTOR ASSY FWD 12901204				PLAN		500850020	7/15/2008	1
CHARACTERISTICS MFR-UNIDYNAMICS/SAINT LOUIS INC CONROE TX NAVCOM PLAN- MFR DWG-12901204 MFR ID-12901204-1 PATTERN NO-93 EQUIP SPEC-MIL-C-2212 NSN- LAPL-50-010 HP-25 VOLTAGE-440 AC PHASE-3 CYCLE-60 OPERATION-CONTINUOUS TYPE-ACROSS THE LINE ENCLOSURE-DRIP PROOF LOCATION-FWD PDCN-W694W APL HAS BEEN UPDATED TO INCLUDE DLP "DEPOT LEVEL PROVISIONING" REQUIREMENTS. NOTE-APL HAS BEEN UPDATED TO INCLUDE DLP "DEPOT LEVEL PROVISIONING" REQUIREMENTS. DRAWING 12901204 DEC. 1987 ENGSC-A FSCM-95310 CCF DATE - 01 83 APPROVED SHIP ALTERATION DDG993-245KP 0020 APPROVED SHIP ALTERATION DDG993-245KP 0020 105 12111404-9 12901204 ITEM 11 12901204-1 12901206-1 12901211-1 12901211PC11 24230 POWER SUPPLY 95310 VOLT COMPARATOR 95310 GASKET 95310 CONTROLLER, MOTOR 95310 LAMP ASSEMBLY, DRIVE 95310 LOGIC TEST ASSEMBLY 95310 SWITCH-RTY 9B6130-01-015-6266 9B 3960-01-195-6106 9B 5330-01-264-6412 9B 6110-01-149-8880 9B 6240-01-203-4992 9B 6625-01-252-8819 9B 5920-01-156-7010 1 PA 22 Z 1EA 1 PA 22 Z 1EA 1 PA 22 Z 2EA 1 PA GG G 1EA 1 PA 22 Z 1EA 1 PA 22 O 1EA 1 PA 22 Z 1EA				P A S U A R T I C L E T V C S M R E P O N O R E Q T Y I N O N E E Q P T / C O M P U I T M A L L I T E 1 2 3 4 5-8 9-20 21-50	ON BOARD ALLOWANCE TABLE NUMBER OF EQUIPMENT/COMPONENTS See SNSL for Allowance 22			
Other/Additional Manuals 3G818-AN-MMA-010								
REFERENCE SYMBOLS DDG 100 SHIP TYPE & HULL NO.				ITEM NAME ALLOWANCE PARTS LIST (APL)		STOCK NUMBER 500850020		

Figure 3-K Electronic Allowance Parts List Part II Section A

11. Item Name. The name listing of selected repair parts and/or related accessory components for the equipment/components described in subparagraph 6.

12. Stock Number. The National Stock Number (NSN) assigned to a specific repair part. When an NSN is not assigned, a T-NICN or P-NICN will be shown.

13. Material Control Code (MCC). Used to segregate material into a manageable group of items having similar characteristics.

14. Part Military Essentiality Code (MEC) /Mission Criticality Code (MCC). For codes and definitions, see Appendix A.

15. Source Code. For codes and definitions, see Appendix A.

16. Maintenance Code. For codes and definitions, see Appendix A.

17. Recoverability/Condemnation Code. For codes and definitions, see Appendix A.

18. Allowance Note Code. For codes and definitions, see Appendix A.

19. Quantity in One Equipment/Component. The total population of the part within the equipment/ component described by the APL.

20. Unit of issue. The term that denotes the physical measurement or count of quantities of an item for procurement, storage, and issue. Unit of Issue is abbreviated alphabetically: e.g., EA-each, DZ-dozen, SE-set, etc.

21. Allowance Item Code. This code is also known as

Allowance Override Code (AOR). For codes and definitions, see Appendix A.

22. On Board Allowance Table. APLs published as part of an allowance list for shipboard use and contained in Part II of the COSAL will not have quantities printed in the On Board Allowance Table columns. In lieu of the quantity, the statement "SEE SNSL FOR ALLOW" will be printed in the columnar spaces provided for the number of equipments/components.

23. Ship Type and Hull No. The specific ship/ activity for which the APL is published.

24. Page. Consecutive page numbering from first page to last of all pages within the applicable category. Page numbers preceded by the letter "A" indicates Aeronautical, "E" indicates Electronics, "Z" indicates Ordnance, and "H" indicates HM&E equipments.

25. Identification Number. Same as subparagraph 3 above.

26. Date. Same as subparagraph 4 above.

27. Supplemental Nomenclature Files (SNF). Although not shown on the APL sample, there is a Supplemental Nomenclature File. This file enables additional information to be provided about a specific item (The SNF information is provided on the SNF tab of CIA). Figure 3-O shows as circled number 26.

28. Supplemental Source Code. The sixth position of the Source, Maintenance and Recoverability Code. For codes and definitions, see Appendix A.

ORDALT APL

Figure 3-L illustrates an Ordnance Alteration (ORDALT) APL used in conjunction with the basic APL shown in the characteristics section.

Explanation: An alteration of an ordnance item normally referred to by an assigned number (example, OR68040001) and included in the Fleet Modernization Program Management Information System (FMPMIS). ORDALT applies to APLs listed under characteristics section of the APL.

ALLOWANCE PARTS LIST (APL)				IDENTIFICATION NO		DATE		PAGE			
EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS ORDALT 16800,MK339MOD5,PANEL,LOCAL CONTROL				TECHNICAL DOCUMENT NUMBER PLAN		0R16800095		7/15/2008		1	
CHARACTERISTICS				F A S U A L		ON BOARD ALLOWANCE TABLE					
MFR-RAYTHEON MISSILE SYSTEMS COMPANY TUCSON AZ NAVCOM PLAN-ECP-FW8689R1 MFR DWG-N/A MFR ID-15090 PATTERN NO-1140 EQUIP SPEC-N/A NSN-NONE LAPL-NLAPL MARK-339 MODEL-5 ORDALT 16800 MODIFIES THE LOCAL CONTROL PANELS MODE SYSTEM CONTROL CCA, REPLACES MODE SYSTEM CONTROL PWB WITH RELAYOUT PWB, REIDENTIFIES MODE SYSTEM CONTROL CCA, AND REPLACES ORDALT 16403. THE WORK REQUIRED BY THIS ORDALT IS REQUIRES FOR ALL SYSTEMS WITH OR16403 INSTALLED. FSCM-15090 CCF DATE -12 02 5188139 53711 CIRCUIT CARD ASSEMB 7HH5998-01-164-9919VN 1 PA 2G DR 1EA 6619942 53711 CIRCUIT CARD ASSEMB 7HH5998-01-372-6179VN 1 PA 2G D 1EA 6748447 53711 CIRCUIT CARD ASSEMB 7HH5998-01-372-6180VN 1 PA 2G D 1EA 7044635 53711 CHASSIS ASSEMBLY, LCP 7HH5975-01-472-3437VN 1 PB 22 D 1EA Z 7485573 53711 CIRCUIT CARD ASSEMB 7HH5998-01-521-1029VN 1 PA 2G D 1EA 7485574 53711 CIRCUIT CARD ASSEMB 7HH5998-01-521-1030VN 1 PA 2G D 1EA END				QTY. IN ONE EQPT./ COMP.		NUMBER OF EQUIPMENT/COMPONENTS		1 2 3 4 5-8 9-20 21-50			
ORDALT APL ORDALT APL SHOULD BE USED IN CONJUNCTION WITH BASIC APL						See SNSL for Allowance					
REFERENCE SYMBOL NUMBER				ITEM NAME		STOCK NUMBER		F A S U A L		1 2 3 4 5-8 9-20 21-50	
DDG 100				ALLOWANCE PARTS LIST (APL)				0R16800095		7/15/2008 1	
SHIP TYPE & HULL NO.											

- 1 - ORDALT APL NUMBER – First position is a numeric, not an alpha character.
- 2 NOTES – For detailed definition, see Appendix “A”
- 3 By which the effected APL population of the item has been decreased

Figure 3-L ORDALT Allowance Parts List
3-29

ELECTRONIC FIELD CHANGE APL

Figure 3-M illustrates an Electronic Field Change APL identified in the Equipment/Component Nomenclature/Characteristics block. An alteration or change in an item that is accomplished by the user.

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS			TECHNICAL DOCUMENT NUMBER	MANUAL	IDENTIFICATION NO	DATE	PAGE					
PP-6395/UYS-7(V) FC8 ← ①				PLAN	79739015	7/15/2008	1					
CHARACTERISTICS					ON BOARD ALLOWANCE TABLE							
MFR-LOCKHEED MARTIN CORPORATION EAGAN MN MFR-LOCKHEED MARTIN CORPORATION EAGAN MN NHA-PP-6395/UYS-7 (V), POWER SUPPLY NHA-PP-6395/UYS-7 (V), POWER SUPPLY COMMERCIAL NOMEN-NONE COMMERCIAL NOMEN-NONE FSCM-90536 FSCM-90536 CCF DATE - 01 79 CCF DATE - 01 79 7071720-10 90536 SWITCHING REGULATOR 7HH7050-01-067-3193VN 1 PA 2D D 4EA 7071720-10 90536 SWITCHING REGULATOR 7HH7050-01-067-3193VN 1 PA 2D D 4EA 7071720-11 90536 SWITCHING REGULATOR 7HH7050-01-101-5849VN 1 PA 2D DR 4EA 7071720-11 90536 SWITCHING REGULATOR 7HH7050-01-101-5849VN 1 PA 2D DR 4EA 7902794-107 90536 CAPACITOR, FIXED, MICA 9B 5910-01-030-9211 1 PA DZ Z 4EA 7902794-107 90536 CAPACITOR, FIXED, MICA 9B 5910-01-030-9211 1 PA DZ Z 4EA 7902794-88 90536 CAPACITOR-FXD MICA 9B 5910-01-066-6235 1 PA DZ Z 4EA 7902794-88 90536 CAPACITOR-FXD MICA 9B 5910-01-066-6235 1 PA DZ Z 4EA 910509-02 90536 RESISTOR, FIXED, WIRE 9N 5905-00-060-3731 1 PA DZ Z 4EA 910509-02 90536 RESISTOR, FIXED, WIRE 9N 5905-00-060-3731 1 PA DZ Z 4EA END					NUMBER OF EQUIPMENT/COMPONENTS 1 2 3 4 5-8 9-20 21-50 See SNSL for Allowance							
ELECTRONIC FIELD CHANGE APL ELECTRONIC FIELD CHANGE APL SHOULD BE USED IN CONJUNCTION WITH THE BASIC APL					②							
① - Electronic Field Change APL denoted by "FC" in nomenclature. ② - Dash (-) located in ALL ITEM column indicates this part population is subtracted and not used for COSAL computation.												
REFERENCE SYMBOL NUMBER		ITEM NAME		STOCK NUMBER	P A R T S L I S T C O D E S M R S N I C P T N O P E S Q T Y I N O N E E Q P T C O M P U T E R U I M A L I T E M 	1	2	3	4	5-8	9-20	21-50
DDG 100		ALLOWANCE PARTS LIST (APL)				79739015				7/15/2008		1
SHIP TYPE & HULL NO.												

Figure 3-M Electronic Field Change Allowance Parts List

HM&E MODIFICATION APL

Modification APLs are developed to support changes to HM&E equipments such as Engineering Change Proposals (ECPs), Machine Alterations (MAC ALTs), Ship Alterations (SHIP ALTs), etc. Failure of equipment beyond the ship's force repair capability forces its removal and replacement. Engineering analysis may cause the redesign of parts for improved endurance. These redesigns or modifications are documented as ECPs. Machine alterations are replacement parts on machinery/equipment aboard ships by engineers. Prior to June 1999 the first five characters of the change APL number are identical to those of the baseline APL. A unique alpha designator in the 6th position (e.g., 52017A010) of the APL number identifies HM&E equipment changes such as ECPs and Machine Alteration MACALTs (excluding Marine Gas Engines). Additionally, the last five characters of the nomenclature of the change APL are the last four digits of the baseline APL number with an appropriate prefix/suffix. Figure 3-N illustrates an HM&E MACALT. Currently the first two digits are the same as the baseline APL the third is an Alpha character (usually an "A"), fourth and fifth are the calendar year, the remaining are sequential beginning with "A" (A001)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS			TECHNICAL DOCUMENT NUMBER	MANUAL PLAN	IDENTIFICATION NO	DATE	PAGE				
APPROVED SHIP ALTERATION DDG993-245KP 0020					50085A004	7/15/2008	1				
CHARACTERISTICS					ON BOARD ALLOWANCE TABLE						
MFR-UNIDYNAMICS/SAINT LOUIS INC CONROE TX NAVCOM PLAN- MFR DWG-12901204 MOD. MFR ID-SHIPALT DDG993-245KP PATTERN NO-1204 EQUIP SPEC- NSN- LAPL-NLAPLW TECHNICAL DIRECTIVE NO.- JCB NO.- APPLICABLE CHANGE IN DESIGN NO.- APPLICABLE BASE LINE APL NO.-500850020 PDCN-N1EP64 FSCM-95310 CCF DATE -01 92					NUMBER OF EQUIPMENT/COMPONENTS 1 2 3 4 5-8 9-20 21-50						
02000-1 82121 KNOB SPECIAL 9B 5355-00-451-0225 1 PA 2Z Z 1EA C 1613977PC1 53711 SWITCH 9B 5930-00-729-7110 1 PA 2Z O 1EA C 1769 82241 LAMP, INCANDESCENT 9B 6240-00-270-4697 1 PA 2Z Z 4EA C 38TB12 81349 TERMINAL BLOCK 9G 5940-00-983-6089 1 PA 2Z Z 1EA C 81D914 71669 HEATER-TRML REL 9N 5999-00-503-1961 1 PA 2Z Z 2EA C F02B250V1A3 81349 FUSE, 1 AMP 9N 5920-00-850-6091 1 PA 2Z Z 2EA C FHL32W 81349 FUSEHOLDER 9N 5920-00-065-9251 1 PA 2Z Z 2EA C LC40GN3 81349 LENS, LIGHT, GREEN 9B 6210-00-313-9218 1 PA 2Z Z 1EA C LC40YN3 81349 LENS, LIGHT, YELLOW 9B 6210-00-752-2141 1 PA 2Z Z 1EA C LH94/3 81349 LIGHT, INDICATOR 9B 6210-00-028-6713 1 PA 2Z Z 2EA C END					See SNSL for Allowance						
REFERENCE SYMBOL NUMBER			ITEM NAME	STOCK NUMBER	1	2	3	4	5-8	9-20	21-50
DDG 100			ALLOWANCE PARTS LIST (APL)		50085A004			7/15/2008			1
SHIP TYPE & HULL NO.											

① HM&E modification APL DENOTED by "A"

② Identifies the APL as a Ship Alteration

Figure 3-N HM&E Machine Alteration (MAC ALTs) Allowance Parts List

ALLOWANCE EQUIPAGE LIST (AEL) COSAL PART II SECTION C

The AEL is a technical document prepared for various categories of equipage for mechanical, electrical, electronic, and ordnance systems. When used for systems, AELs include the items required for operation of the system and/or the repair parts required for maintenance of the system. The AELs are filed in Part II in numerical sequence by identification number. Subparagraphs 1 through 26 refer to the circled numbers shown on Figure 3-O.

1. Equipage Nomenclature/Characteristics.

2. Manual/Plan. The predominant technical manual and plan number. See subparagraphs 6 and 7 for additional information.

3. Identification Number. The Allowance Equipage List Identification Number (AEL ID No.) designates specific listings of material collectively known as equipage. The first digit of the AEL ID number can be identified by either Alpha or Numeric (-) characters in the first position which indicates the cognizant preparation and maintenance activity and general equipage significance as follows:

<u>Alpha</u>	<u>Numeric</u>	<u>Definition</u>
A	0-	Ordnance equipage
B	1-	Space/system related equipage
C	2-	Miscellaneous equipage
D	3-	Automotive, construction, and materials handling equipage
E	4-	Flag allowance equipage
F	5-	Special project office equipage
G	6-	Nuclear Reactor Plant (NRP) equipage
H	7-	Portable electronic equipage
I	8-	Trident equipage
J	9-	Nuclear Weapons equipage

4. Date. COSAL publication date.

5. Page. Consecutive page numbering of all pages required describing one category of equipage or mechanical/electrical and ordnance system covered by one identification number. AELs requiring one or more pages for the printing of data will have the word "END" printed on the page immediately following the last line of data.

6. Characteristics. A general description, characteristics, and/or other identifying information concerning the equipage, etc., named in sub paragraph 1 above. This may include special information and the criteria used to establish quantities in the On Board Allowance Tables noted in subparagraph 20.

7. Reference Number/Descriptive Data. Contains significant information, manufacturer's part number(s), reference number(s), special comments, and references to other AELs, etc.

8. Item Name. Arranged in alphabetical sequence, the name of each item, and when appropriate or applicable, additional nomenclature, dimensions, etc., to adequately describe the item named.

9. Stock Number. The National Stock Number (NSN) assigned to the items named in subparagraph 8 above. When an NSN is not assigned, a T-NICN/P-NICN will be shown.

10. Material Control Code (MCC). For codes and definitions, see Appendix A.

3-34

Figure 3-O Allowance Equipage List

11. Security Classification Code. For codes and definitions, see Appendix A.

12. Source Code. For codes and definitions, see Appendix A.

13. Maintenance Code. For codes and definitions, see Appendix A.

14. Recoverability/Condemnation Code. For codes and definitions, see Appendix A.

15. Supplemental Source Code. For codes and definitions, see Appendix A.

16. Allowance Note Code (ANC). For codes and definitions, see Appendix A.

17. Custody Code. For codes and definitions, see Appendix A.

18. Unit of Issue (U/I). The term that denotes the physical measurement or count of quantities of an item for procurement, storage, and issue. Unit of Issue is abbreviated alphabetically: e.g., EA-each, DZ-dozen, SE-set, etc. For all codes, see Appendix A.

19. Quantity. The quantity of an item either contained in or part of a system component or kit. When used for certain AELs, the specific quantity of each individual piece or part contained within the equipage as a whole will be listed. Consult subparagraphs 6, 11, 12, and 13, respectively, prior to requisitioning. The abbreviation for Select (SEL) may appear in this column for certain items from which a selection or choice must be made. Consult subparagraph 6 for detailed information and/or allowance criteria prior to requisitioning SEL items.

20. On Board Allowance Table. This table consists of eight numbered columns in which quantities may be shown. The criteria used to establish the quantities shown in one, several, and/or all of these columns may be defined in the information contained on each AEL, as noted in subparagraph 6. In certain cases, the total shipboard allowance quantity will be determined by the total of the quantities appearing in designated columns of several AELs. In all cases, the applicable AEL identification number(s) will be shown in the COSAL Index, Part I, Sections A and B. The acronym for As Required (AR) may appear in lieu of a specific quantity for certain items. Refer to subparagraph 6 for detailed information and/or allowance criteria for determining of shipboard quantities of "AR" items.

21. Ship Type and Hull Number. The specific ship/activity for which the AEL is published.

22. Page. Consecutive page numbering from the first to last page of all pages within the applicable category.

23. Identification Number. Same as subparagraph 3 above.

24. Date. Same as subparagraph 4 above.

25. Page. Same as subparagraph 5 above.

26. Supplemental Nomenclature File. This file enables additional information to be provided about a specific item. (The SNF information is provided on the SNF tab of CIA).

Note: Electronic File. External label Identification number is E44PX3 for all AELs.

ALLOWANCE EQUIPAGE LIST (AEL) FOR PORTABLE ELECTRONICS EQUIPMENT

1. AELs developed for Portable Electronics differ in several ways from other AELs. They contain only one section and are identified with distinctive nomenclatures and numbers. The following ranges of AEL numbers are used.

Communication Equip.	7-000000001	thru	7-000009999
Infrared Equip	7-000010000	thru	7-000019999
Radiac, Conventional	7-000020000	thru	7-000029999
Radiac, Nuclear	7-000030000	thru	7-000039999
Sonar	7-000040000	thru	7-000049999
Electrical Test Equip.	7-000060000	thru	7-000069999
Noise Monitoring	7-000070000	thru	7-000079999
Electronic Tools	7-000080000	thru	7-000089999
Miscellaneous	7-11 Series		
Electronic Test Equip.	7-670050000	thru	7-670059999

2. The nomenclatures of 7-AELs are preceded by the Sub-Category (SCAT) Code. If no SCAT has been assigned by NSLC, a "9999" is used. This is especially important in the case of Portable Electrical/Electronic Test Equipment (PEETE) because the Ships Portable Electrical/Electronics Test Equipment Requirements List (SPETERL) is in SCAT sequence. Accordingly, allowances of PEETE are determined in terms of SCAT rather than specific equipment models.

3. The characteristics include certain technical data and, in some cases, accessories and technical manuals. Eventually, all AELs will list accessories and manuals. Technical data includes: the APL number for the equipment, the Logistics Support Status Code (LSSC), the equipment priority, the equipment weight and cube, and alternate nomenclatures for the equipment.

4. The statement, "Column Selected Based on Equipments on Board" indicates that the AEL column selected is based on the equipments actually in the inventory regardless of the SPETERL or any other

allowance determination that may apply. In this way, when several equipment models are provided to fill a single functional requirement SCAT, all of the models will be grouped together in the COSAL. When there are eight or less equipments on board, the column numbers reflect actual on board equipments. When there are more than 8 equipments, additional AELs are prepared and identified at the end of the nomenclature as 9-72, 81-648, etc. Thus 30 equipments would be column 3 of the 9-72 and column 3 of 1-8 AEL.

5. Accessories furnished with the equipment are shown with a descriptive name and the part number that appears in the technical manual. Technical manual numbers are also shown. This is especially important since all accessories and technical manuals must be turned in when an equipment is turned in.

6. Following the characteristics information is the line which shows the NSN, T-NICN or P-NICN, and quantities. From left to right are the nomenclatures of the equipment, noun name, stock number including Cognizance Symbol and Material Control Code, the security classification, Source, Maintenance, and Recoverability Code, Notes, Unit of Issue, and quantities.

7. Commercial equipment AELs are identified by the CAGE/FSCM and model number. The three or four letter Manufacturers Designating Symbol is shown in the characteristics as an alternate nomenclature for reference purposes. It should not be used for configuration status accounting purposes as it has been replaced by the CAGE/FSCM. The nomenclature of the equipment itself and its APL appears in the COSAL Index exactly as it was reported through the Ship Configuration and Logistics Support Information System (SCLSIS) and reflected in the Weapon Systems File (WSF).

8. See Figure 3-P for Portable Electronics Equipage.

ALLOWANCE EQUIPAGE LIST (AEL)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS		TECHNICAL DOCUMENT NUMBER		MANUAL							IDENTIFICATION NO.		DATE		PAGE				
4245 AEL AN/PSM-4E				PLAN							7-670050115		11-15-77		1				
CHARACTERISTICS											ON BOARD ALLOWANCE TABLE								
APL NUMBER/RIC 56731Q15 ALLW SUPPORT CODE AA PRIORITY 23 WEIGHT 5.5 LB CUBE 0.12 CF L 7.47 W 5.94 H 4.72 INCHES CALIBRATION REQUIRED - YES COLUMN SELECTED BASED ON EQUIPMENTS ON BOARD TOTAL SHIPBOARD ALLOWANCE REQUIREMENTS FOR TEST EQUIPMENT ASSIGNED TO THIS SCAT CODE ARE PRINTED IN THE SPETERL, SHIPS PORTABLE ELECTRICAL/ELECTRONIC TEST EQUIPMENT REQUIREMENTS LIST, FOR EACH INDIVIDUAL SHIP. ALTERNATE NOMENCLATURE NONE MODEL NONE. ITEMS TO BE TRANSFERRED WITH TEST EQUIPMENT. INSTRUCTION MANUALS MULTIMETER ME-48E/U 1EA COVER CW-326/PSM-4A 1EA LEAD, RED CX-2353/PSM-4A LEAD, BLAVK CX-2354/PSM-4A 1EA LEAD, HIGH VOLT CX-2335/PSM-4A 1EA AN/PSM-4E MULTIMETER 4GD6625-00-379-0206TE				SEC	SOURCE	MAIN	REC	NOTES	CUST	U/I	QTY	COL 1	COL 2	COL 3	COL 4	COL 5	COL 6	COL 7	COL 8
				UPE	24	G	1	E	EA	1	1	2	3	4	5	6	7	8	
				END															

END

NOTE: APLs AND AELs for portable electronic equipage are listed in COSAL Part I, Indexes A and B as follows:

Index Section A Nomenclature sequence

APLs by equipment designator, i.e., AN/PSM-4E

AELs

in SCAT code sequence, i.e., 4245 AN/PSM-4E

Index Section B Service Application sequence

APLs under the service/equipment application APLs and AELs for portable electronic equipment/equipage included in a ships COSAL are based upon configuration and not allowances; therefore, configuration changes in PEETE must be reported on an OPNAV 4790/CK. Allowances for the PEETE are contained in the ship's SPETERL. For detailed information see NAVSEA ST000-AA-IDX-010-PEETE.

REFERENCE SYMBOL NO.		ITEM NAME	STOCK NUMBER	S E C C L	S O U R C E	M A I N T	R E C ' Y	N O T E S	C U S T	U/I	QTY	1	2	3	4	5	6	7	8
DD 901	E 36	PART II ALLOWANCE EQUIPAGE LISTS (AEL) SECTION C										7-670050115				11-15-77		1	
SHIP TYPE & HULL NO	PAGE											IDENTIFICATION NO.				DATE		PAGE	

Figure 3-P Portable Electronic Allowance Equipage List

BALD ALLOWANCE PARTS LIST

Part II, Sections A and C may include a page(s) indicating the Logistics Support Status Code (LSSC) for APLs/AELs which were not available at the time the COSAL was prepared. These are referred to as bald APLs/AELs. A published APL/AEL is forwarded when available. Upon receiving the next COSAL In Access update the new APL/AEL will be contained in Part II of the COSAL. Part III, Stock Number Sequence List (SNSL) will be adjusted to reflect the allowed items.

Additional pages are provided for all non-supported equipment/equipage. These pages will include the LSSC with an explanation. Subparagraphs 1 through 4 refer to the circled numbers shown on Figure 3-Q.

1. Component or Equipage. Name of equipment, component, or equipage.
2. Identification No. The APL/AEL Identification Number.
3. Ship Type and Hull No. The specific ship/activity for which the Allowance Parts List is published.
4. Logistic Support Status Code (LSSC). Indicates the type and degree of support. For codes and definitions, see Appendix A.

ALLOWANCE PARTS LIST (APL)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS				TECHNICAL DOCUMENT NUMBER		MANUAL		IDENTIFICATION NO.		DATE		PAGE									
AN/SQR-19(V) 1 UNIT 30								00092892		10-15-88		1									
CHARACTERISTICS MFR-GOULD INC CHESAPEAKE INSTR DIV GLEN BURNIE MD NHA-AN/SQR-17(V) 1 SONAR RECEIVING SET NSN-NONE EIC-NONE COMMERCIAL NOMEN-NONE CONTRACT NR-N00024-79-C-6372 N00024-83-C-6924 SOURCE OF APL INFO-PTD TECH MANUAL-NONE PROV PARTS LIST-02 83 FSCM-54497 CCF DATE – 04 84 4 The LSSC of AP indicates the following: 1ST CHARACTER POSITION - A - FULL SUPPORT – PROVIDE EQUIPMENT WITH FULL SUPPLY SYSTEM SUPPORT FOR INDEFINITE PERIOD OF TIME 2ND CHARACTER POSITION - P - NEW APL METHOD - A NEW APL IS IN PREPARATION AND WILL BE FORWARDED UPON PUBLICATION. USE ALLOWANCE APPENDIX PACKAGE OR TECHNICAL MANUAL TO DETERMINE REQUIRED SPARES / REPAIR PARTS. End						PART SOURCE MEC		MAINT RECOV BLTY		NOTES QTY IN ONE EQPT/ COMP.		U/I ALL ITEM		ON BOARD ALLOWANCE TABLE							
														NUMBER OF EQUIPMENTS/COMPONENTS							
														1	2	3	4	5-8	9-20	21-50	
3 REFERENCE SYMBOL NO.						ITEM NAME						STOCK NUMBER									
DD 901		E 20		PART II ALLOWANCE PARTS LISTS (APL) SECTION A						PART SOURCE MEC		MAINT RECOV BLTY		NOTES QTY IN ONE EQPT/ COMP.		U/I A 1		1 2 3 4 5-8 9-20 21-50		00092892 10-15-88 1	
SHIP TYPE & HULL NO		PAGE																			
IDENTIFICATION NO.						DATE						PAGE									

Figure 3-Q Bald Allowance Parts List

ALLOWANCE COMPONENTS LIST (ACL)

An ACL is a system validation aid prepared for variable installations of electronic/ordnance weapon systems. It also performs the function of tying together large systems supported by more than one APL. The ACL contains a list of component APLs with APL/AEL identification numbers as well as components not supported by an APL. A single installation may not contain all of the components listed on the ACL. ACLs DO NOT PROVIDE COSAL SUPPORT. Validation of each component is required. ACLs frequently contain additional ACLs that must be used by validators to accurately define each ship's specific configuration. This will ensure proper COSAL support. An Electronic ACL is an 8-digit RIC with a suffix of CA-CZ. The common practice is to assign the initial basic 8 digit RIC with a CL suffix. Any subsequent equipment having the same components and the same basic eight digit RIC will be assigned a suffix code in the range of CA through CZ (excluding CL). For example, AN/SPS-52C(V) RADAR SYSTEM is assigned RIC 57040876CL. The AN/SPS-52C(V)1 RADAR SYSTEM is assigned RIC 57040876CA.

An Ordnance ACL is identified by a "U" in the second position of the LSSC and may contain 'ACL' in the equipment nomenclature. An ACL is shown in Figure 3-R

ALLOWANCE PARTS LIST (APL)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS				TECHNICAL DOCUMENT NUMBER		MANUAL		IDENTIFICATION NO.		DATE		PAGE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
AN/UYK-1328 ACL								00011390CL		10-30-88																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
MFR-HONEYWELL INFO SYS INC FED SYS DIV MCLEAN, VA NHA-NONE NSN-NONE EIC-QK4H-200 CONTRACT NR-N66032-82-D-0008 SOURCE OF APL INFO-NAVSEACOMBATSYSENGSTA TECH MANUAL-NA47-00 ALLOWANCE COMPONENT LIST (ACL) AN ALLOWANCE COMPONENT LIST IS AN INDEX OF COMPONENTS (UNIT ASSEMBLY) APLS OR RICS THAT ARE CANDIDATES FOR USE IN VARIABLE EQUIPMENT OR SYSTEMS. NOT ALL INSTALLATIONS OF SUCH EQUIPMENTS OR SYSTEMS ARE IDENTICAL. FOR VALIDATION AND CONFIGURATION REPORTING TO SPCC, THE VALIDATING ACTIVITY MUST REPORT THE SPECIFIC COMPONENT/UNIT/ASSEMBLY AND QUANTITY, USING THE PROVISIONING (MICROFICHE) ACL AS A GUIDE TO APL OR RIC NUMBER THE PROVISIONING ACL SHOULD IDENTIFY ALL COMPONENTS/UNITS/ASSEMBLIES AT THE NEXT LOWER LEVEL. IT MAY BE NECESSARY TO REFER TO THE NEXT LOWER APL OR ACL FOR FURTHER BREAKDOWN OF A SYSTEM. ACLS THAT APPEAR IN COSALS WILL SHOW ONLY THE NEXT LOWERE THAT HAVE BEEN REPORTED AND REGISTERED ON THE WSF AGAINST A SPECIFIC USER THE ACL PROVIDES NO PIECE PARTS SUPPORT ACL ERRORS MAY BE REPORTED BY FLEET COSAL FEEDBACK REPORT. FSCM-33322 CCF DATE - 05 86 CP-1586/UYK, COMPUTER, DIGITAL 00002786 CY-8301/UYKK,CABINET, ELECTRICAL EQUIPMENT 00002789 C-11273/UYK,CONTROLLER, NASS STORAGE 00002796 C-11274/UYK,, CONTROLLER, MULTILINE COMMUNICATIONS 00002797 C-112575/UYK, CONTROLLER, MEMORY 00002798 C-11276/UYK, CONTROLLER, MAGNETIC TAPE 00002799 C-11277/UYK, CONTROLLER, MULTIPLE DEVICE 00002800 J-4077/UYK, INTERFACE, PRINTER 00002802 J-4078/UYK, INTERFACE, CURRENT LOOP 00002803 J-4079/UYK, INTERFACE, HIGH LEVEL DATA LINK CTRL 00002804 J-4080/UYK, INTERFACE, MIL-STD-188C 00002805						PART SOURCE MEC	MAINT	RECOVBLTY	NOTES	QTY IN ONE EQPT/ COMP.	U/I	ALL ITEM	ON BOARD ALLOWANCE TABLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Figure 3-R Allowance Components List (ACL)

MISCELLANEOUS REPAIR PARTS APL (89000)

1. Miscellaneous Repair Parts APLs were established to keep to a minimum the number of APLs for non APL-worthy components. Assignment of APL numbers to non APL-worthy components has been discontinued unless APL assignment is the only means available to convey service application information. If the item is included in COSAL Part III, Section D (Reference Number to Stock Number), service application is not considered lost.

2. The Miscellaneous Repair Parts APL lists those items determined to be non APL-worthy that are maintenance significant and are not included in the parent APL or

identified to a particular system. The Miscellaneous Repair Part APL numbers are in the 89000 series. A miscellaneous APL is shown in Figure 3-S.

3. The PAFOS manual Chapter 4.13 provides the basic rules for determining which items are listed on the 89000 series APLs.

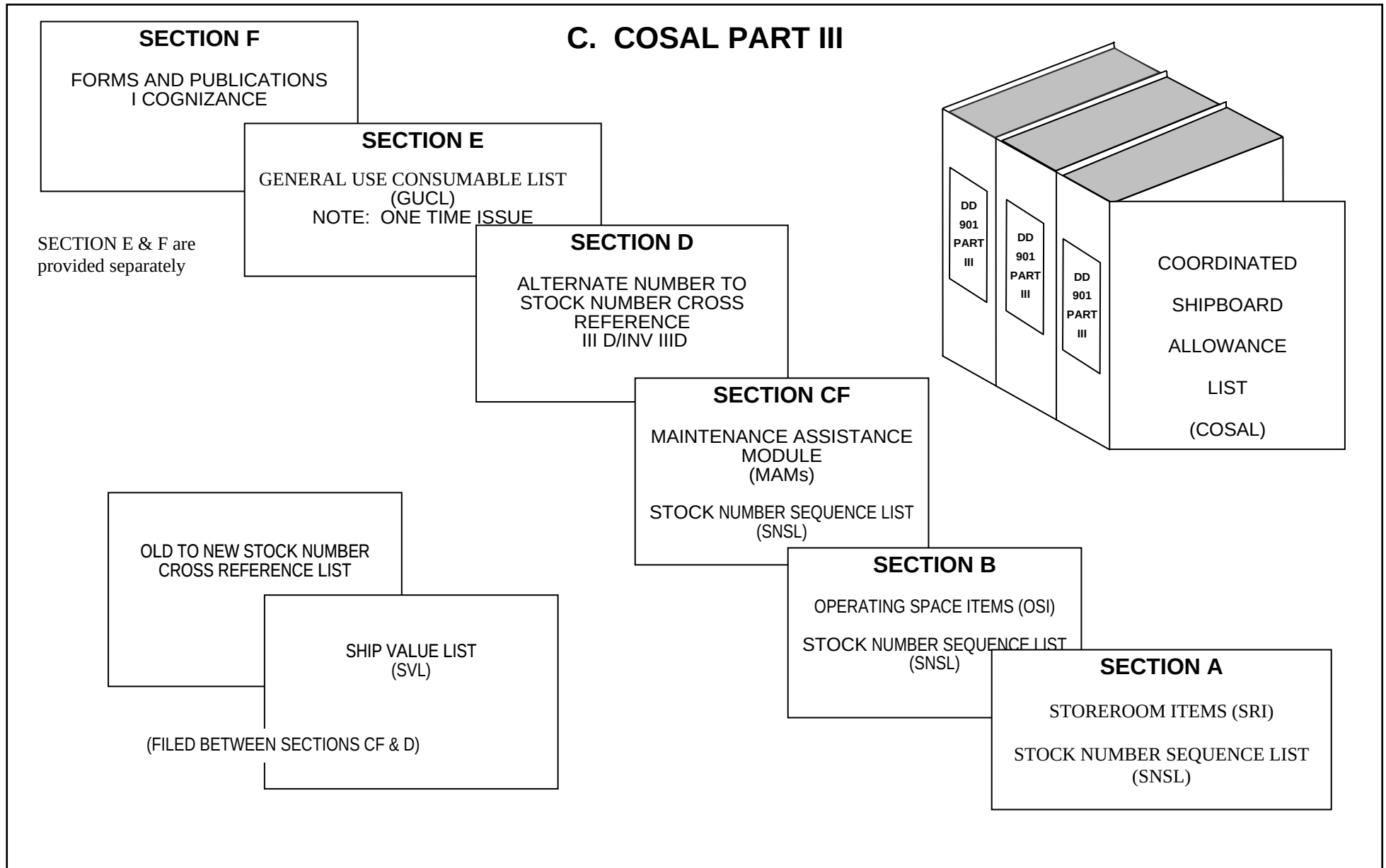
4. APL Worthiness guide for HM&E equipment can be found on NSWCCD Carderock Division website: <http://www.dt.navy.mil/mac-res-eng/int-log-file/supply/index.html> Select APL Worthiness.

ALLOWANCE PARTS LIST (APL)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS			TECHNICAL DOCUMENT NUMBER	MANUAL					IDENTIFICATION NO.		DATE		PAGE					
MISCELLANEOUS PARTS LIST FOR DD 901				PLAN					890000714		09-15-92		1					
MFR-VARIOUS NAVCOM PLAN- MFR DWG- MFR ID- PATTERN NO-126 EQUIP SPEC- NSN- LAPL-89-000 THIS PARTS LIST CONTAINS MISCELLANEOUS ITEMS COMPILED ON A SHIPWIDE BASIS. APL COLUMN HEADED QUANTITY PER EQUIPMENT/COMPONENT LISTS THE QUANTITY INSTALLED ON THIS SHIP. COSAL PART III SECTION D WILL INCLUDE CROSS REFERENCE DATA FROM PART NUMBER OR DRAWING AND PIECE NUMBER TO FSN FSCM-03950 0468 CR123C4-66A 03497 HEATER-TRML REL 9N5999-00-793-7304 1 PA 2 ZZ 2 EA CR123H3-46A 03497 HEATER-TRML REL 9N5999-00-730-8611 1 PA 2 ZZ 3 EA CR123H6-80A 03497 HEATER-TRML REL 9N5999-00-444-9378 1 PA 2 ZZ 1 EA C35909M 76364 VALVE-GLB 1HS0000-LL-CA5-9256 1 XB 2 70 1 EA C35912M 76364 VALVE-GLB 1HS0000-LL-CA5-9257 1 XB 2 20 1 EA F09A250V15AS 81349 FUSE 9N5920-00-280-4428 1 PA 2 ZZ 6 4 EA F60C500V20A 81349 FUSE-CART 20AMP 9N5920-00-686-0025 1 PA 2 ZZ 6 4 EA F61C500V20AS 81349 FUSE-CART 20AMP 500V 9N5920-00-809-7802 1 PA 2 ZZ 6 4 EA H1030 27192 HEATER-TRML REL 9N5999-01-033-6331 1 PA 2 ZZ 2 EA IC-CTR-S4 77287 RESISTOR CELL TEST 1HS5905-01-129-9543 1 PA 2 ZZ 1 EA KX-241 79500 AMMETER 9N6625-00-538-995 1 PA 3 ZG 1 EA KX-261 65054 AMMETER 1HS0000-LL-CK8-9938 1 XB 2 ZZ 4 EA MIL-F-16377/27-002 81349 LENS, LIGHT 1HS6210-01-166-7187FZ1 PA 2 ZZ 4 EA MIL-F-16377/42-003 81349 LENS, LIGHT 1HS6210-01-166-7184FZ1 PA 2 ZZ 80 EA MIL-F-16377/60-001 81349 LENS, LIGHT 1HS6210-01-166-7186FZ1 PA 2 ZZ 12 EA MILG2860-3 3-4DIAAX3-4THK 81349 WINDOW-OBSN 3 3-4DIA 9G6680-00-009-2306 1 PA 2 ZZ 4 EA MS16656-1 96906 SWITCH-TGL 9N5930-00-644-3039 1 PA 2 ZZ 10 EA MS24489-4 96906 LENS, LIGHT 1HS6201-01-169-8192FZ1 PA 2 ZZ 11 EA MS27407-1 96906 SWITCH TOGGLE 9N5930-00-789-6024 1 PA 2 ZZ 1 EA MS3102E20-3SC 96906 CONNECTOR, RECEPTACL 9N5930-01-226-6845 1 PA 2 ZZ 4 EA M16377/57-350 81349 FIXTURE, LIGHTING 9G6210-00-115-9150 1 PA 2 ZG 10 EA				P A R T M E C	S O U R C E	M A I N T	R E C O V E R B I L I T Y	N O T E S	QTY IN ONE EQPT/ COMP.	U/I	A L L I T E M	ON BOARD ALLOWANCE TABLE						
				NUMBER OF EQUIPMENTS/COMPONENTS														
				1	2	3	4	5-8	9-20	21-50								
SEE SNSL FOR ALLOW																		

REFERENCE SYMBOL NO.		ITEM NAME		STOCK NUMBER		P A R T M E C	S O U R C E	M A I N T	R E C O V E R B I L I T Y	N O T E S	QTY IN ONE EQPT/ COMP.	U/I	A I	1	2	3	4	5-8	9-20	21-50	
DD 901	H3579	PART II ALLOWANCE PARTS LISTS (APL) SECTION A										890000714							09-15-92		1
SHIP TYPE & HULL NO	PAGE											IDENTIFICATION NO.							DATE		PAGE

Figure 3-S Miscellaneous Repair Parts APL (89000)



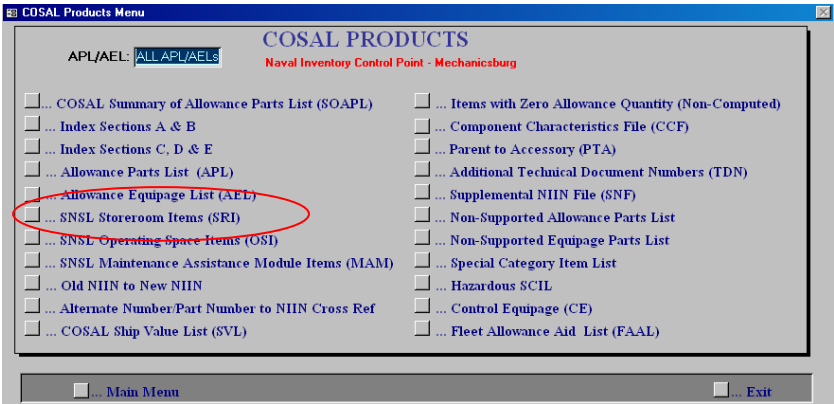
Contents of COSAL Part III

STOCK NUMBER SEQUENCE LIST (SNSL)
SECTION A - STOREROOM ITEMS

The Stock Number Sequence List (SNSL) Section A, contains only the storeroom allowance items, arranged in ascending National Item Identification Number (NIIN) sequence regardless of Cognizance Symbol. However, the entire National Stock Number (NSN) including the Cognizance Symbol will be shown. Subparagraphs 1 through 23 refer to the circled numbers shown in Figure 3-T. Storeroom Items (SRI) from the SNSL can be accessed from the SRI Items tab of the COSAL Data Page which shows the SRI Items for the RIC being viewed.

COG	MCC	FSC	NIIN	SMIC	ITEM NAME	APL/AEL	UI	NOTES	TOT SHIPS POP	MIL	SL	SLA
9N	5930	00-197-4762			GUARD SWITCH	00000514	EA		1	V1	0	00
9N	5920	00-284-6787			FUSE 5 AMP	00000514	EA		75	V1	0	00
9B	6240	00-763-7744			LAMP	00000514	BX		50	V1	0	00
9B	6210	00-779-3234			LIGHT-IND	00000514	EA		4	V1	0	00
9B	5310	00-876-0086			WASHER-WEAR	00000514	EA		249	V1	0	00
9B	6625	01-160-5071			EXTENDER BOARD	00000514	EA	E	1	V1	0	00
9B	5360	01-177-3426			SPRING	00000514	EA		249	V1	0	00

The Storeroom Items data can also be accessed from the COSAL Products page.



When the user selects “For Allowance Qty Display All SRIs” from the COSAL Data Page, or “SNSL Storeroom Items (SRI)” from the COSAL Products screen they will see the data displayed in the format shown on the Allowance Items for SRI SNSL screen shown in Figure 3-T. If the user selects “Print” from the Allowance Items for SRI SNSL screen the data will be displayed in the format shown in figure 3-U. If the user selects “Print SRI Items for **RIC**” from the COSAL Data Page, they will be asked if they would also like to print the Operating Space (Section B) and Maintenance Assistance Module (Section CF) items for this RIC. Subparagraphs numbered 1 through 23 below correspond to the circled numbers on both Storeroom Items Figures 3-T and 3-U.

1. Stock Number. The National Stock Number (NSN) assigned to the items identified in subparagraph 4, arranged in NIIN sequence. Where an NSN is not assigned, a T-NICN or P-NICN will be shown.

2. Material Control Codes (MCC). For codes and definitions, see Appendix A.

3. Special Material Identification Code (SMIC). For codes and definitions, see Appendix A.

4. Item Name. This reflects the name of each stock item in subparagraph 1 above, and, when appropriate or applicable, additional nomenclature, dimensions, etc., are used to adequately describe the item so identified.

5. Equipment/Component/Equipage Identification Number. The APL/AEL identification number(s) of shipboard equipment(s)/component(s)/equipage on or in which the item is intended for use/repair purposes.

6. Unit of Issue. The term that denotes the physical measurement or count of quantities of an item for procurement, storage, and issue. Unit of Issue is abbreviated alphabetically: e.g., EA-each, DZ-dozen, SE-set, etc. For all code cross-references, see Appendix A.

7. Allowance Quantity. The total on board computed quantity of an individual storeroom item.

8. Allowance Notes Code. For codes and definitions, see Appendix A.

9. Total Ship's Population Per Identification Number. The total shipboard population of the part, as installed in each individual ID No. that is listed in subparagraph 5 above.

10. Military Essentiality Code (MEC)/Mission Criticality Code (MCC). For codes and definitions, see Appendix A.

11. Shelf Life (SL) Code. For codes and definitions, see Appendix A.

12. Shelf Life Action (SLA) Code. For codes and definitions, see Appendix A.

13. Type of Storage Space (TSS) Code. For codes and definitions, see Appendix A.

14. Special Material Content (SMC) Code. For codes and definitions, see Appendix A.

15. Security Classification (SC) Code. For codes and definitions, see Appendix A.

16. Custody Code. For codes and definitions, see Appendix A.

17. Unit Price. Current price should be obtained from the Management List-Navy (ML-N).

18. Derivation Code. A code used to reflect what determined the computed SNSL allowance. For codes and definitions, see Appendix A.

19. Unit Cube. Quantity when expressed in cubic feet.

20. Ship Type and Hull Number. The specific ship/activity for which the SNSL is published.

21. Date. COSAL publication date.

22. Supply Management Codes. Refers to subparagraphs 11 through 15 above.

23. Page. Consecutive page numbering from first page to last page of Part III, Section A.

NOTE: The following files are available for SNSL data:

a. E44GX1 - PRE-SNSL data prior to computation of allowances.

b. E44NX1 – computed SNSL.

COSAL Database - [COSAL SNSL SRI Data]																
Allowance Items for SRI SNSL																
COG	MCC	FSC	NIIN	SMIC	ITEM NAME	APL/AEL	UI	ALLOW QTY	NOTES	TOT SHIPS POP	MIL	SL	SLA	TSS	SMC	SC
7	E	5960	00-001-1632		BABY CFA,CROSS FIELD AMP	00035381	EA	1		1	V1	0	00	A	R	7
9Z		4540	00-001-3518		HEATING ELEMENT	430000672	EA	1		8	V1	0	00			U
9Z		4540	00-001-3518		HEATING ELEMENT	430000721	EA			8	V1	0	00			U
9B		5905	00-003-2547		RESISTOR-VAR	616240064	EA	1		141	V1	0	00			U
9B		5905	00-003-2547		RESISTOR-VAR	616240068	EA			141	V1	0	00			U
9B		5905	00-003-2547		RESISTOR-VAR	616240082	EA			141	V1	0	00			U
9B		5905	00-003-2547		RESISTOR-VAR	616240079	EA			141	V1	0	00			U
9B		5905	00-003-2547		RESISTOR-VAR	616240074	EA			141	V1	0	00			U
9B		6850	00-003-5295		CLEANING AND LUBRIC	0-004020103	CN	2		3	V1	6	C0	N	W	U
9B		6850	00-003-5295		CLEANING AND LUBRIC	57210919	CN			3	V3	6	C0	N	W	U
9B		5920	00-003-5845		FUSE HOLDER	0R15667005	EA	1		568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600456	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	220020001	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	0R15692005	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	0R15743005	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	000A0426	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600291	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	0R15690005	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600445	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	509990558	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600457	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600458	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600462	EA			568	V1	0	00			U
9B		5920	00-003-5845		FUSE HOLDER	006600444	EA			568	V1	0	00			U
9B		5331	00-003-6690		PACKING, PREFORMED	004020406	EA	1		8	V3	Y	UU			U
9B		5331	00-003-6690		PACKING, PREFORMED	004020411	EA			8	V3	Y	UU			U
9B		5331	00-003-6690		PACKING, PREFORMED	006040078	EA			8	V1	Y	UU			U
9B		5920	00-004-0274		FUSE,CARTRIDGE	85122080	EA	8	6	60	V1	0	00			U
9B		5910	00-005-3468		CAPACITOR, FIXED, MIC	00004872	EA	1		256	V1	0	00			U

CUST CODE	UNIT PRICE	DERIV	UNIT CUBE
R	55087.00	I	8.2031
R	28.04	I	0.0000
			0.0000
R	22.38	I	0.0000
			0.0000
			0.0000
			0.0000
			0.0000
R	8.10	N	0.0000
			0.0000
R	66.75	I	0.0000
			0.0000
			0.0000
			0.0000
			0.0000
			0.0000
			0.0000
			0.0000
			0.0000
			0.0000
R	.31	I	0.0000
			0.0000
			0.0000
R	1.51	D	0.0000
R	.88	I	0.0000

Figure 3-T Part III Section A-Stock Number Sequence List (SNSL) display

PART III – COSAL STOCK NUMBER SEQUENCE LIST (SNSL)

STOCK NUMBER	ITEM NAME	EQUIPMENT COMPONENT EQUIPAGE ID NO.	U/I	ALLOW- ANCE QUAN- TITY	N O T E S	TOTAL SHIP'S POPULA- TION PER ID NO.	MIL. ESS. CODE	* SUPPLY MGMT					C U S T O D Y	UNIT PRICE		D E R I V	UNIT CUBE	
								S L	S L A	T S S	S M C	S C						
IH 6130-00-764-5840TT 9ZH 5330-00-781-5642 9N 1005-00-791-3377	POWER SUPPLY GASKET-RUB 17-32ID CASE	31062102 480030200 480030209 0-006400097	EA EA EA	1 14 2	E	6 8 2	31 21 21 X1	0 0 0 0	00 00 00 00	A B Y Y	Y Y U U	U U R R				I P N	2.45	
2	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

20		21		22												23
DD 901		02-15-82		SC – Security Class, n SL – Shelf Life										III	A	37
SHIP TYPE & HULL NO		DATE		* SUPPLY MANAGEMENT CODES										PART	SECTION	PAGE

Figure 3-U Part III Section A Stock Number Sequence List (SNSL)

STOCK NUMBER SEQUENCE LIST (SNSL) SECTION B - OPERATING SPACE ITEM

The Stock Number Sequence List (SNSL), Section B, contains only the Operating Space Items (OSI) (all items coded “X” or “1” in the APL/AEL Notes Column), arranged in ascending National Item Identification Number (NIIN) sequence regardless of Cognizance Symbol. However, the entire National Stock Number (NSN) including Cognizance Symbol will be shown. Subparagraphs 1 through 23 refer to the circled numbers shown in Figure 3-V. OSI from the SNSL can be accessed from the OSI Items tab of the COSAL Data Page which shows the OSI Items for the RIC being viewed.

COG	MCC	FSC	NIIN	SMIC	ITEM NAME	APL/AEL	UI	ALLOW QTY	NOTES	TOT SHIPS POP	MIL	SL	SLF
9B	5835	00-168-9534	TAPE INSTRUMENTATIO	00000514	RL	1	1	1	V1	0	00		

The Storeroom Items data can also be accessed from the COSAL Products page.

When the user selects “Display all OSIs” from the COSAL Data Page, or “Operating Space Items (OSI)” from the COSAL Products screen they will see the data displayed in the format shown on the Allowance Items for OSI SNSL screen shown in Figure 3-V. If the user selects “Print” from the Allowance Items for OSI SNSL screen the data will be displayed in the format shown in Figure 3-W. If the user selects “Print OSI Items for **RIC**” from the COSAL Data Page, they will be asked if they would also like to print the Storeroom Items (Section A) and Maintenance Assistance Module (Section CF) items for this RIC. Subparagraphs number 1 through 23 below correspond to the circled numbers on both Operating Space Items Figures 3-V and 3-W.

1. Stock Number. The NSN assigned to the items identified in subparagraph 4, arranged in NIIN sequence. Where an NSN is not assigned, a T-NICN or P-NICN is shown.

2. Material Control Codes (MCC). Used to convey information that the item is repairable. For codes and definitions, see Appendix A.

3. Special Material Identification Code (SMIC). For codes and definitions, see Appendix A.

4. Item Name. This reflects the name of stock number item in subparagraph 1 above; when appropriate or applicable, additional nomenclature, dimensions, etc., are used to adequately describe the item identified.

5. Equipment/ Component/ Equipage Identification Number. The APL/ AEL identification number(s) of all shipboard equipment(s)/component(s)/equipage on or in which the item is intended for use/repair purposes.

6. Unit of Issue (U/I). The term that denotes the physical measurement or count of quantities of an item for procurement, storage, and issue. Unit of Issue is abbreviated alphabetically: i.e., EA-each, DZ-dozen, SE-set, etc. For all codes, see Appendix A.

7. Allowance Quantity. The operating space allowance quantity for each individual Note Code "1" is displayed for each application. Authorized allowances with Note Code "X" are summed as one quantity across multiple applications

8. Allowance Notes Code (ANC). For codes and definitions, see Appendix A.

9. Total Ship's Population Per Identification Number (ID NO.) The total shipboard population of the part, as installed in each individual ID No listed in subparagraph 5 above.

10. Military Essentiality Code. (Blank for OSI)

11. Shelf Life (SL) Code. For codes and definitions, see Appendix A.

12. Shelf Life Action (SLA) Code. For codes and definitions, see Appendix A.

13. Type of Storage Space (TSS) Code. For codes and definitions, see Appendix A.

14. Special Material Content (SMC) Code. For codes and definitions, see Appendix A.

15. Security Classification (SC) Code. For codes and definitions, see Appendix A.

16. Custody Code. For codes and definitions, see Appendix A.

17. Unit Price. Current price should be obtained from the Management List-Navy (ML-N).

18. Derivation Code. For codes and definitions, see Appendix A.

19. Unit Cube. Quantity when expressed in cubic feet and includes the manufacturer's original wrapping, box, or crate.

20. Ship Type and Hull Number. The specific ship/activity for which the SNSL is published.

21. Date. COSAL publication date.

22. Supply Management Codes. Refers to subparagraphs 11 through 15 above.

23. Page. Consecutive page numbering from first to last page of Part III, Section B

COSAL Database - [COSAL SNSL OSI Data]																		
COG	MCC	FSC	NIN	SMIC	ITEM NAME	APL/AEL	UI	ALLOW QTY	NOTES	TOT SHIPS POP	MIL	SL	SLA	TSS	SMC	SC	CUST CODE	UNIT PRICE
9B		5835	00-168-9534		TAPE,INSTRUMENTATIO	00000514	RL	1	1	1	V1	0	00	A		U	E	328.28
9B		5998	01-130-8629		HOLDER,ELECTRICAL C	00003178	EA	1	1	1	V3	0	00			U	E	144.61
9B		5998	01-080-2558		EXTRACTOR,ELECTRICA	00003178	EA	1	1	1	V3	0	00			U	E	180.15
9Q		5120	01-093-6044		WRENCH,OPEN END	00003178	EA	1	1	2	V3	0	00	A		U	E	35.53
9B		5920	00-820-8446		FUSE,CARTRIDGE	00003190	EA	1	1	1	V7	0	00		9	U	E	.64
9N		5920	00-053-8958		FUSEHOLDER	00003190	EA	1	1	2	V3	0	00		9	U	R	55.17
9Q		5120	00-114-4962		WRENCH,BOX	00004352	EA	1	X	5	V3	0	00		9	U	E	23.76
9Q		5120	01-289-3021		KEY,SOCKET HEAD SCR	00004352	EA	1	X	6	V3	0	00			U	R	20.60
9Q		5120	01-434-9677		KEY,SOCKET HEAD SCR	00004352	EA	1	X	5	V3	0	00			U	E	5.16
9Q		5120	01-128-3056		ALIGNMENT TOOL,ELEC	00004352	EA	1	X	5	V3	0	00			U	E	N
9Q		5120	01-054-4068		ALIGNMENT TOOL,ELEC	00004352	EA	1	X	5	V3	0	00			U	E	1.22
9Q		7510	01-070-9087		RIBBON,TELETYPEWRIT	00008610	DZ	1	1	1	V3	0	00	A		U	E	67.21
1H	M	5998	01-102-2280		EXTENDER CARD,ELECT	00014679	EA	1	1	4	V1	0	00	A	2	U	R	329.60
9B		5995	01-368-6938		CABLE ASSEMBLY,SPEC	00014679	EA	1	1	4	V3	0	00			U	R	204.05
9B		5995	01-368-6939		CABLE ASSEMBLY,SPEC	00014679	EA	1	1	4	V3	0	00			U	R	92.23
1H	M	5220	01-124-3224		GAGE,PROFILE	00014694	EA	1	1	8	V3	0	00		9	U	R	56.65
1H	M	5998	01-102-2280		EXTENDER CARD,ELECT	00014694	EA	1	1	8	V3	0	00	A	2	U	R	329.60
9B		7010	01-201-9874		END CUTTER,MAG	00014694	EA	1	1	8	V1	0	00			U	E	228.20
9B		5995	01-368-6938		CABLE ASSEMBLY,SPEC	00014694	EA	1	1	8	V3	0	00			U	R	204.05
9B		5995	01-368-6939		CABLE ASSEMBLY,SPEC	00014694	EA	1	1	8	V3	0	00			U	E	92.23
9B		6670	00-939-2540		SCALE,WEIGHING	00014694	EA	1	1	8	V1	0	00			U	E	168.58
9B		7045	00-702-2761		TAPE,SKEW,MASTER	00014694	EA	1	1	8	V1	0	00			U	E	541.08
9B		6850	01-201-9864		KIT,CLEANING	00014694	KT	1	1	8	V3	0	00	G	G	U	E	21.97
9G		6685	00-004-1033		GAGE,DIFFERENTIAL,D	00014694	EA	1	1	8	V1	0	00		9	U	E	62.78
7R	H	5845	00-063-2942	FZ	RECEIVER,SONAR	00017224	EA	1	1	4	V1	0	00		9	7	R	4332.00
9B		5998	00-156-4574		EXTENDER CARD,ELECT	00020710	EA	1	1	2	V1	0	00	B		U	E	1495.51
9B		6625	00-480-8609		LEAD,TEST	00020710	EA	1	1	1	V3	0	00			U	E	16.88
9Q		5210	00-132-5693		BLADE,THICKNESS GAG	00020710	EA	1	1	1	V1	0	00			U	E	2.17
9Q		7530	00-129-6576		CHART,RECORDING INS	00020710	RO	1	1	1	V1	0	00	B		U	E	68.26

Figure 3-V Part III Section B-Stock Number Sequence List (SNSL) OSI display

PART III – COSAL STOCK NUMBER SEQUENCE LIST (SNSL)

STOCK NUMBER	ITEM NAME	EQUIPMENT COMPONENT EQUIPAGE ID NO.	U/I	ALLOW- ANCE QUAN- TITY	N O T E S	TOTAL SHIP'S POPULA- TION PER ID NO.	MIL. ESS. CODE	* SUPPLY MGMT					C U S T O D Y	UNIT PRICE		D E R I V	UNIT CUBE	
								S L	S L A	T S S	S M C	S C						
9GH 5120-00-196-5391	BEARING	882351529 882351530 2-560004015	EA	2	X	1		0	00	A	P	U	E			N		
				1	X	1		0	00	A	P	U	E			N		
					1	1		0	00	G	P	U	E			N		
9QG 5120-00-198-5392	KEY-SKT HD SCR	882351529	EA	1	1	1		0	00							N	05	
1H 6630-00-372-0839	TESTING KIT BOR WTR	2-560004015	EA	1	1	1		0	00	A	P	U	E			N	015	
1H 6625-00-373-7528	MAIN FRAME, POWER	7-670052473	EA	1	1	1		0	00	B	P	U	E			N	050	
9GH 5210-00-377-652	SLEEVE	2-920014050	EA	1	1	1		0	00	B	P	U	E			N	050	
9N 6640-00-408-9075	INDICATOR DIAL W ACCY	2-560004015	EA	1	1	1										N		

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20		21		22		23	
DD 901		02-15-82		SC – Security Class'n SL – Shelf Life		SLA – Shelf-life Action SMC – Special mat'l Content TSS – Type of Storage Space	
SHIP TYPE & HULL NO.		DATE		* SUPPLY MANAGEMENT CODES		PART SECTION PAGE	
						III B 29	

Figure 3-W Part III Section B-Stock Number Sequence List (SNSL) OSI

STOCK NUMBER SEQUENCE LIST (SNSL) SECTION CF - MAINTENANCE ASSISTANCE MODULES

Stock Number Sequence List (SNSL), Section CF, contains Maintenance Assistance Modules (MAMS). MAMS are assigned an Allowance Note Code (ANC) "N", which may also appear in Section A of the SNSL as a storeroom item if usage warrants backup support. The items are arranged in ascending NIIN sequence regardless of Cognizance Symbol. However, the entire NSN including Cognizance Symbol will be shown. Subparagraphs 1 through 23 refer to the circled numbers shown in Figures 3-X and 3-Y. MAMS from the SNSL can be accessed from the MAM Items tab of the COSAL Data Page which shows the MAM Items for the RIC being viewed.

COSAL Data Page for DDG 100

APL/AEL: 00000514 COSAL DATA PAGE

Alt Num CR		PTA	SNF	TDN	N-S APLs	N-S AELs																																																																						
APL	AEL	CCF	SRI Items	OSI Items	MAMs Items	Non-Computed Items																																																																						
Display All MAMs Allowance Items for MAM SNSL <table border="1"> <thead> <tr> <th>COG</th> <th>MCC</th> <th>FSC</th> <th>NIIN</th> <th>SMIC</th> <th>ITEM NAME</th> <th>APL/AEL</th> <th>UI</th> <th>ALLOW QTY</th> <th>NOTES</th> <th>TOT SHIPS POP</th> <th>MIL</th> <th>SL</th> <th>SLA</th> </tr> </thead> <tbody> <tr> <td>7H</td> <td>H</td> <td>5998</td> <td>01-065-5750</td> <td></td> <td>CIRCUIT CARD ASSEMB</td> <td>00000514</td> <td>EA</td> <td>1</td> <td>N</td> <td>1</td> <td>V1</td> <td>0</td> <td>00</td> </tr> <tr> <td>7H</td> <td>H</td> <td>5999</td> <td>01-258-2908</td> <td></td> <td>CIRCUIT CARD ASSEMB</td> <td>00000514</td> <td>EA</td> <td>1</td> <td>N</td> <td>1</td> <td>V1</td> <td>0</td> <td>00</td> </tr> <tr> <td>7H</td> <td>H</td> <td>5998</td> <td>01-281-3249</td> <td></td> <td>CIRCUIT CARD ASSEMB</td> <td>00000514</td> <td>EA</td> <td>1</td> <td>N</td> <td>20</td> <td>V1</td> <td>0</td> <td>00</td> </tr> <tr> <td>7H</td> <td>H</td> <td>5998</td> <td>01-380-0504</td> <td></td> <td>CIRCUIT CARD ASSEMB</td> <td>00000514</td> <td>EA</td> <td>1</td> <td>N</td> <td>2</td> <td>V1</td> <td>0</td> <td>00</td> </tr> </tbody> </table>							COG	MCC	FSC	NIIN	SMIC	ITEM NAME	APL/AEL	UI	ALLOW QTY	NOTES	TOT SHIPS POP	MIL	SL	SLA	7H	H	5998	01-065-5750		CIRCUIT CARD ASSEMB	00000514	EA	1	N	1	V1	0	00	7H	H	5999	01-258-2908		CIRCUIT CARD ASSEMB	00000514	EA	1	N	1	V1	0	00	7H	H	5998	01-281-3249		CIRCUIT CARD ASSEMB	00000514	EA	1	N	20	V1	0	00	7H	H	5998	01-380-0504		CIRCUIT CARD ASSEMB	00000514	EA	1	N	2	V1	0	00
COG	MCC	FSC	NIIN	SMIC	ITEM NAME	APL/AEL	UI	ALLOW QTY	NOTES	TOT SHIPS POP	MIL	SL	SLA																																																															
7H	H	5998	01-065-5750		CIRCUIT CARD ASSEMB	00000514	EA	1	N	1	V1	0	00																																																															
7H	H	5999	01-258-2908		CIRCUIT CARD ASSEMB	00000514	EA	1	N	1	V1	0	00																																																															
7H	H	5998	01-281-3249		CIRCUIT CARD ASSEMB	00000514	EA	1	N	20	V1	0	00																																																															
7H	H	5998	01-380-0504		CIRCUIT CARD ASSEMB	00000514	EA	1	N	2	V1	0	00																																																															

Main Menu Search Results Search Menu Print MAMs Items for 00000514 Print All MAMs Items Exit

The MAMS data can also be accessed from the COSAL Products page.

COSAL Products Menu

APL/AEL: ALL APL/AELs

COSAL PRODUCTS
Naval Inventory Control Point - Mechanicsburg

- ☐ ... COSAL Summary of Allowance Parts List (SOAPL)
- ☐ ... Index Sections A & B
- ☐ ... Index Sections C, D & E
- ☐ ... Allowance Parts List (APL)
- ☐ ... Allowance Equipage List (AEL)
- ☐ ... SNSL Storeroom Items (SRI)
- ☐ ... SNSL Operating Space Items (OSI)
- ☐ ... SNSL Maintenance Assistance Module Items (MAM)
- ☐ ... Old NIIN to New NIIN
- ☐ ... Alternate Number/Part Number to NIIN Cross Ref
- ☐ ... COSAL Ship Value List (SVL)
- ☐ ... Items with Zero Allowance Quantity (Non-Computed)
- ☐ ... Component Characteristics File (CCF)
- ☐ ... Parent to Accessory (PTA)
- ☐ ... Additional Technical Document Numbers (TDN)
- ☐ ... Supplemental NIIN File (SNF)
- ☐ ... Non-Supported Allowance Parts List
- ☐ ... Non-Supported Equipage Parts List
- ☐ ... Special Category Item List
- ☐ ... Hazardous SCIL
- ☐ ... Control Equipage (CE)
- ☐ ... Fleet Allowance Aid List (FAAL)

Main Menu Exit

When the user selects "Display all MAMS" from the COSAL Data Page, or "Maintenance Assistance Modules (MAMS)" from the COSAL Products screen they will see the data displayed in the format shown on the Allowance Items for MAM SNSL screen shown in Figure 3-X. If the user selects "Print" from the Allowance Items for MAMS SNSL screen the data will be displayed in the format shown in Figure 3-Y. If the user selects "Print MAMS" Items for **RIC** from the COSAL Data Page, they will be asked if they would also like to print the Storeroom Items (Section A) and Operating Space Items (Section B) for this RIC. Subparagraphs number 1 through 23 below correspond to the circled numbers on both Maintenance Assistance Modules Figures 3-X and 3-Y.

1. Stock Number. The NSN assigned to the items identified in subparagraph 4, arranged in NIIN sequence. Where a NSN is not assigned, a T-NICN or P-NICN is shown. NOTE: All existing Part Numbers have been converted to T-NICNs/P-NICNs.

2. Material Control Codes (MCC). Used to segregate material into a manageable group of items having similar characteristics. For codes and definitions, see Appendix A.

3. Special Material Identification Code (SMIC). For codes and definitions, refer to Appendix A.

4. Item Name. This reflects the name of each item stock-numbered in subparagraph 1 above; when appropriate or applicable, additional nomenclature, dimensions, etc., are used to adequately describe the item identified.

5. Equipment/Component/Equipage Identification Number. The APL/AEL identification number(s) of all shipboard equipment(s)/component(s)/equipage, on or in which the item is intended for use/repair purposes.

6. Unit of Issue (U/I). The term that denotes the physical measurement or count of quantities of an item for procurement, storage, and issue. Unit of Issue is abbreviated alphabetically: e.g., EA-each, DZ-dozen, SE-set, etc. For all codes and definitions, see Appendix A.

7. Allowance Quantity. The operating space allowance quantity for each different individual APL.

8. Allowance Notes Code (ANC). For codes and definitions, see Appendix A.

9. Total Ship's Population Per Identification Number (ID NO.) The total shipboard population of the part, as installed in each individual ID No., described in subparagraph 5 above.

10. Military Essentiality Code. Blank for MAM.

11. Shelf Life (SL) Code. For codes and definitions, see Appendix A.

12. Shelf Life Action (SLA) Code. For codes and definitions, see Appendix A.

13. Type of Storage Space (TSS) Code. For codes and definitions, see Appendix A.

14. Special Material Content Code (SMC). For codes and definitions, see Appendix A.

15. Security Classification (SC) Code. For codes and definitions, see Appendix A.

16. Custody Code. For codes and definitions, see Appendix A. NOTE: All ANC "N" items will be assigned a Custody Code of "R".

17. Unit Price. Current price should be obtained from the Management List-Navy (ML-N).

18. Derivation Code. For codes and definitions see Appendix A.

19. Unit Cube. Quantity when expressed in cubic feet.

20. Ship Type and Hull Number. The specific ship/activity for which the SNSL is published.

21. Date. COSAL publication date.

22. Supply Management Codes. Refer to subparagraphs 11 through 15 above.

23. Page. Consecutive page numbering from first page to last page of Part III, Section CF.

COSAL Database - [COSAL SNSL MAMs Data]

File Edit Insert Records Window Help

4 5 6 7 8 9 10 11 12 13 14 15

Allowance Items for MAM SNSL

PRINT

COG	MCC	FSC	NIIN	SMIC	ITEM NAME	APL/AEL	U1	ALLOW QTY	NOTES	TO SHIPS POP	MIL	SL	SLA	TSS	SMC	SC
9B		6130	00-003-0352		POWER SUPPLY SUBASS	004020387	EA	1	N	1	V1	0	00	B		U
7H	E	5998	00-007-1382	VN	CIRCUIT CARD ASSEMB	49401920	EA	1	N	12	V1	0	00	B	2	7
7H	H	5999	00-007-5488		CIRCUIT CARD ASSEMB	49401920	EA	1	N	2	V1	0	00	A		U
7H	H	5999	00-007-5490	GL	CIRCUIT CARD ASSEMB	49401920	EA	1	N	2	V1	0	00	B	2	U
7H	H	5999	00-007-5494		CIRCUIT CARD ASSEMB	49401920	EA	1	N	2	V1	0	00	A		U
7H	H	5999	00-007-5498		CIRCUIT CARD ASSEMB	004020346	EA	1	N	1	V1	0	00	B	2	U
7H	H	5999	00-007-5499	VN	CIRCUIT CARD ASSEMB	004020346	EA	1	N	1	V1	0	00	B	2	U
7H	H	5999	00-007-5499	VN	CIRCUIT CARD ASSEMB	49401920	EA	1	N	106	V1	0	00	B	2	U
9B		5945	00-007-7585		RELAY,ELECTROMAGNET	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-007-7586		RELAY,ELECTROMAGNET	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-007-7587		RELAY,ELECTROMAGNET	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-007-7589		RELAY,ELECTROMAGNET	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-007-7591		RELAY,THERMAL	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-007-7592		RELAY,THERMAL	004020387	EA	1	N	1	V1	0	00			U
7H	H	5998	00-007-9737	GL	CIRCUIT CARD ASSEMB	49400046	EA	1	N	1	V1	0	00	B	2	7
9B		5945	00-008-0404		RELAY,THERMAL	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-008-4254		RELAY,THERMAL	004020387	EA	1	N	1	V1	0	00			U
9B		5945	00-009-6345		RELAY,ELECTROMAGNET	004020387	EA	1	N	1	V1	0	00			U
9B		5998	00-027-6254		CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00	B		7
9B		5998	00-027-6259		CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00	B		U
1H	M	5998	00-045-7940	GL	CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00	A		U
3B	D	5998	00-045-7944	GL	CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00			7
9B		5998	00-045-7947		CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00	A		U
1H	S	5998	00-045-7957		CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00	A		U
9B		5998	00-045-7976		CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00			7
9B		5960	00-052-4112		ELECTRON TUBE	49400046	EA	1	N	1	V1	0	00	X	R	U
9B		5998	00-060-5399		CIRCUIT CARD ASSEMB	004020364	EA	1	N	1	V1	0	00			7
7R	H	6130	00-064-0161	FZ	POWER SUPPLY	00016684	EA	1	N	1	V1	0	00		9	U
9B		5945	00-145-3699		RELAY,ELECTROMAGNET	004020387	EA	1	N	1	V1	0	00			U

16 17 18 19

CUST CODE	UNIT PRICE	DEIV	UNIT CUBE
R	180.73	N	0.0159
R	3879.00	N	0.0000
R	1319.00	N	0.0259
R	769.00	N	0.0259
R	2582.00	N	0.0259
R	314.00	N	0.0694
R	3734.00	N	0.0694
R	3734.00	N	0.0694
R	603.67	N	0.0000
R	569.50	N	0.0000
R	1581.20	N	0.0000
R	246.39	N	0.0000
R	142.04	N	0.0000
R	189.61	N	0.0000
R	1227.00	N	0.0000
R	35.47	N	0.0000
R	36.29	N	0.0000
R	1005.00	N	0.0000
R	24.58	N	0.0070
R	39.62	N	0.0028
R	52.00	N	0.0290
R	79.30	N	0.0000
R	42.97	N	0.0000
R	93.00	N	0.0000
R	200.90	N	0.0160
R	2064.50	N	0.8680
R	37.90	N	0.0000
R	5265.00	N	0.0000
R	536.00	N	0.0000

Figure 3-X COSAL Part III Section CF - Stock Number Sequence List (SNSL) MAM display

PART III – COSAL STOCK NUMBER SEQUENCE LIST (SNSL)

STOCK NUMBER	ITEM NAME	EQUIPMENT COMPONENT EQUIPAGE ID NO.	U/I	ALLOWANCE QUANTITY	NOTES	TOTAL SHIP'S POPULATION PER ID NO.	MIL. ESS. CODE	* SUPPLY MGMT					CUSTODY	UNIT PRICE		D E R I V	UNIT CUBE	
								S L	S L A	T S S	S M C	S C						
7HH 1285-00-498-9603	RADAR SET SUBASSEMB	006060143	EA	1	N	1		0	00	B		U	R			N	069	
7HH 1285-00-498-9628	RADAR SET SUBASSEMB	006060143	EA	1	N	2		0	00	B		U	R			N	166	
7HH 1285-00-566-7842	RADAR SET SUBASSEMB	006060143	EA	1	N	1		0	00	B		U	R			N	166	
7HH 1285-00-570-0070	RADAR SET SUBASSEMB	006060143	EA	1	N	1		0	00	B		U	R			N	166	
7HH 1285-00-570-0175	RADAR SET SUBASSEMB	006060143	EA	1	N	1		0	00	B		U	R			N	166	
7HH 1285-00-570-1035	RADAR SET SUBASSEMB	006060143	EA	1	N	1		0	00	B		U	R			N	166	
7HH 1285-00-570-1061	RADAR SET SUBASSEMB	006060143	EA	1	N	2		0	00	A		U	R			N		
7HH 1285-00-570-1089	RADAR SET SUBASSEMB	006060143	EA	1	N	1		0	00	A		U	R			N		
9NC 5935-00-690-5197	PLUG	461200001	EA	1	N	2		0	00			U	R			N		
7ZH 6625-00-921-5401	VOLTMETER, ELECTRON	30490103	EA	1	N	1		0	00	A		U	R			N	2508	
7HH 5845-01-026-8045	CIRCUIT CARD ASSEMB	61068207	EA	1	N	1		0	00	A		U	R			N		
7HH 5845-01-026-8046	CIRCUIT CARD ASSEMB	61068207	EA	1	N	1		0	00	A		U	R			N	166	
7HH 5845-01-026-8047	CIRCUIT CARD ASSEMB	61068207	EA	1	N	1		0	00	A		U	R			N		
7HH 5845-01-026-8048	CIRCUIT CARD ASSEMB	61068207	EA	1	N	1		0	00	A		U	R			N		
7HH 5845-01-026-8049	CIRCUIT CARD ASSEMB	61068207	EA	1	N	1		0	00			U	R			N	166	
7HH 1440-01-029-1712	ASSY AV	004220110	EA	1	N	1		0	00	A		U	R			N	104	
2 1 20 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 22 18 19 21 23																		
DD 901				05-15-86		SC – Security Class'n SL – Shelf Life		SLA – Shelf-life Action SMC – Special mat'l Content TSS – Type of Storage Space					III		CF		1	
SHIP TYPE & HULL NO.				DATE		* SUPPLY MANAGEMENT CODES					PART		SECTION		PAGE			

Figure 3-Y COSAL Part III Section CF - Stock Number Sequence List (SNSL) MAM

**STOCK NUMBER SEQUENCE LIST (SNSL)
SECTION CR - READY SERVICE SPARES (RSS)
THIS SECTION IS TO ADVISE ALL CONCERNED OF THE POLICY CHANGE FOR RSS**

1. RSS items are repair parts and spares that are designated by agents of the Hardware Systems Command (HSC) to be stored in or near certain equipment for troubleshooting or to perform rapid equipment/system repairs.

2. The decision to eliminate RSSs was made in response to Fleet concerns regarding RSS proliferation and the resultant lack of shipboard management and control, as well as to eliminate the significant level of duplicate inventories. The policy revision, endorsed during the Fleet SCLSIS/Outfitting Conference of 15-16 Jan 91, was the culmination of various meetings attended by representatives from the Fleet, NAVSUP, NAVSEA 04, NAVICP-M, and NSLC. These changes were also briefed to NAVSEA and SPAWAR In-Service Engineering Agent representatives during recent Provisioning Center of Excellence meetings. An overview of the revised policy follows:

a. RSS as an additional layer of shipboard inventory was eliminated.

b. RSS will be determined by a ships force stowage decision vice an allowance decision. Items assigned an Allowance Note Code (ANC) "6" by the engineering community which computes for allowance will be included in ships' Storeroom Item (SRI) inventories.

c. The ANC "6" should continue to be visible on allowance parts lists to facilitate shipboard decisions to stow spares in the operating spaces, if desired. Type Commander guidance will address whether existing RSS should continue to be stowed in the operating spaces or returned to the storeroom.

d. For operational Fleet units, RSS quantities in excess of SRI allowances will be consumed without replacement. Residual excesses will be off-loaded during

availabilities or sooner, contingent upon Type Commander guidance.

e. For shore-based activities, RSS quantities in excess of SRI allowances will be consumed without replacement, or excessed as warranted, in accordance with established material returns procedures.

3. NAVSUP letter SER 4400 4124/0013 of 28 Jan 92 directed initiation of the necessary changes to NAVICP-M allowance programs, specifically, to eliminate COSAL/COSBAL Section CR and SNAP CTC "4" records. Implementation was concurrent with SNAP II Release 5.13. NAVICP-M was directed to exclude RSS quantities from all initial and follow-on outfitting procurements, effective January 1992. SPAWAR Norfolk (formerly NAVMASSO) is developing a utility to facilitate shipboard implementation of this policy change relative to on-hand RSSs aboard SNAP II ships. The utility will be promulgated concurrent with SNAP II Release 5.13.

4. During 2M-AEL/OSI/RSS meeting of 21 Jan 93, it was agreed that interim to SNAP II Release 5.13, RSS should be suppressed from monthly COSAL maintenance Automated Shore Interface/Auto-Monthly COSAL Maintenance Action Reports (ASI/AMCMAR), COSALs and SNAP databases. Representatives from SURFLANT, SURFPAC, SUBLANT, NAVSUP 04, NAVICP-M, NAVSEA 04, NAVMASSO, WPNSTA Concord and various other activities were in attendance. Suppression of RSS from all allowance products was initiated in March 1993.

OLD TO NEW STOCK NUMBER CROSS REFERENCE LIST COSAL PART III

This cross-reference list contains all of the stock number updates from the previous COSAL to the most current stock numbers. It is arranged in “old” stock number sequence and is tailored to the specific ship type and hull number for which the COSAL is published. Subparagraphs 1 through 13 refer to the circled numbers shown on Figure 3-Z. The Old to New NIIN cross reference can be accessed from the ‘Old to New’ tab of the COSAL Data Page which displays the cross reference. You can enlarge the view by selecting ‘Maximize Old to New’.

COSAL Data Page for DDG 100

APL/AEL: 00000514COSAL DATA PAGE

AR Num CR			PTA		SNF		TDN		N-S APLs		N-S AELs	
APL	AEL	CCF	SRI Items	OSI Items	MAMs Items	Non-Computed Items		Old to New	Indexes A & B	Indexes C,D & E		

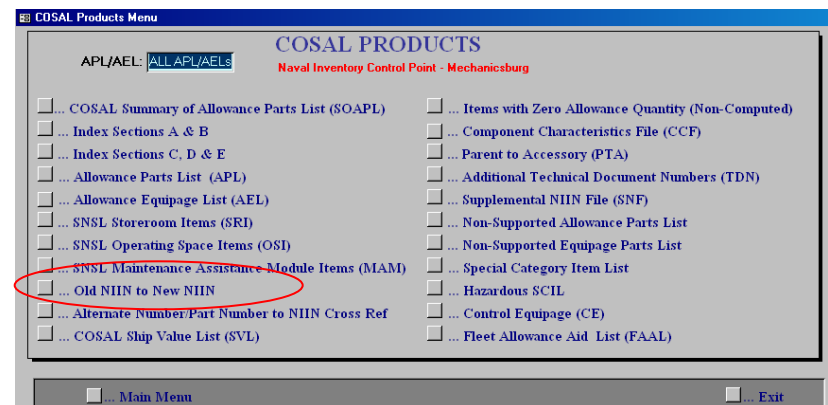
MaximizeOld to New

Old NIIN to New NIIN

COG	FSC	OLD NIIN	SMIC	NEW NIIN	SMIC	ITEM NAME	ANC	OSI
9B	6210	00-001-1437		01-014-3439		LENS,LIGHT		
9B	6210	00-001-1438		00-625-3901		LENS,LIGHT		
9B	6240	00-001-1545		00-266-6254		LAMP,INCANDESCENT		
9B	5999	00-001-2606		01-020-6851		SHIELDING GASKET,EL		
9N	5935	00-001-2788		00-728-4514		JACK, TIP, WHITE		
9N	5935	00-001-2793		00-935-2235		RECEPTACLE, PLUG		
9B	5999	00-001-2916		00-067-8663		CONTACT,ELECTRICAL		
9N	5962	00-001-3009		01-288-0222		MICROCIRCUIT,DIGITA		
9B	5910	00-001-3025		01-044-5617		CAPACITOR,FIXED,MIC		
9B	5910	00-001-3027		01-045-4226		CAPACITOR,FIXED,MIC		
9N	5905	00-001-3051		01-186-6766		RESISTOR, FIXED VVV		

Main MenuSearch ResultsSearch MenuPrint Old to NewExit

The Old NIIN to New NIIN cross reference data can also be accessed from the COSAL Products page.



When the user selects “Old NIIN to New NIIN” from the COSAL Products screen they will see the data displayed in the same format as shown on the COSAL Data Page. If the user selects “Print Old to New” the data will be displayed in the format shown in Figure 3-Z. Subparagraphs number 1 through 13 below corresponds to the circled numbers on the Old NIIN to New NIIN Cross Reference Figure 3-Z.

**OLD TO NEW STOCK NUMBER
CROSS REFERENCE LIST
COSAL PART III**

1. Old NIIN/NICN appearing in the previous COSAL.
 2. Special Material Identification Code (SMIC) from previous COSAL. For codes and definitions, see Appendix A.
 3. New NIIN/NICN updated stock number.
 4. SMIC of updated stock number. For codes and definitions, see Appendix A.
 5. Federal Supply Class (FSC) of updated stock number.
 6. Cognizance Symbol (COG) of the updated stock number.
 7. Item Name. This reflects the name of the new stock numbered item.
 8. Operating Space Item (OSI) "0" indicates item in Part III Section B of previous COSAL.
 9. Note Code indicates specific instructions or information concerning allowance. For codes and definitions, see Appendix A.
 10. Ship Type and Hull Number for which this cross-reference is published.
 11. Unit Identification Code (UIC). Unit Identification Code assigned to the ship/activity in subparagraph 10 above.
 12. Date. COSAL publication date.
 13. Page Number. Consecutive page numbering, from first to last page of cross-reference list.
- The above information may also be furnished in New to Old Stock Number sequence.

OLD TO NEW STOCK NUMBER CROSS REFERENCE LIST								
OLD NIIN/NICN	SMIC	NEW NIIN/NICN	SMIC	FSC	COG	ITEM NAME	OSI	NOTE CODE
LL-HDU-9620		00-116-9360		5120	9Q	ADAPTER-EXTENSION, S	0	X
LL-HDU-9780		00-844-8187		5905	9N	RESISTOR, FIXED, WIRE		
LL-HDW-3966		00-501-8038		4925	1H	SPLICE, WIRE, FEMALE	0	1
LL-HDW-3967		00-501-8041		4921	1H	SPLICING KIT, WIRE	0	1
LL-HDW-3968		00-501-8049		4921	1H	CRIMPING TOOL, CONTA	0	1
LL-HDW-5126		01-029-4217		6810	1H	ION EXCHANGE COMPOU		2
LL-HDW-6828		01-012-7533		9150	9G	LUBRICATING CINDITI		E
LL-HDW-7475		01-061-5291		5330	9Z	GASKET		
LL-HDW-7475		01-010-7557		5910	9N	CAPACITOR-FXD .25MF		
LL-HDW-8597		00-709-7455		5905	9N	RESISTOR FIXED		
LL-HDW-9363		00-561-9917		5120	1H	WRENCH, SPANNER	0	1
LL-HDW-9379		00-550-6911		1220	1H	PROJECTION LAMP ASS		
LL-HDW-9634	LI	01-033-7260	LI	4820	1H	STEM ASSEMBLY		2
LL-HDY-0876	SS	01-056-1691	LI	4820	1H	STEM, VALVE	8	
LL-HDY-1448	LI	01-038-0481	LI	4820	1H	STEM ASSEMBLY		2
LL-HDY-1841		00-563-6608		4820	9C	VALVE NDL GLB		
1	2	3	4	5	6	7		9
10	11	12	13					
SHIP TYPE – HULL DD 901	UIC RX5971	DATE 10-15-88	PAGE NO.					

Figure 3-Z Old to New Stock Number Cross Reference List

COSAL PART III SECTION D ALTERNATE NUMBER CROSS- REFERENCE TO NIIN/NICN

Part III Section D, arranged in alternate number sequence, is tailored to the specific ship type and hull number for which the COSAL is published. Alternate number data, formerly listed on APLs/AELs, is now shown in Section D. Primary and secondary alternate number data are cross-referenced in Section D. Subparagraphs 1 through 11 below refer to the circled numbers shown on Figure 3-AA. The Alternate Number Cross-Reference can be accessed from the 'Alt Num CR' tab of the COSAL Data Page which displays the cross reference. You can enlarge the view by selecting 'Display All PN to NIIN'.

COSAL Data Page for DDG 100

APL/AEL: 00000514 COSAL DATA PAGE

Alt Num CR

CAGE	ALTERNATE NUMBER/PART NUMBER	NIIN	ITEM NAME
74968	20140	005770009	CONNECTOR, RECEPTACL
03950	035 ACROSS FLATS	001985400	KEY, SOCKET HEAD SCR
03950	118-0.23IN RANGE	002889711	PLIERS, RETAIN RING
03950	675 OD X.134IN WALL	002782199	PIPE-1.4IN .109/WALL
03950	0 TO 0.510 4IN LG	002405330	WRENCH, ADJUSTABLE
03950	0 TO 0.760 6IN LG	002643795	WRENCH, ADJUSTABLE
03950	0 TO 0.947	002405328	WRENCH, ADJUSTABLE
03950	0 TO 0.947	002405328	WRENCH, ADJUSTABLE
03950	0 TO 0.947 6IN LG	002405328	WRENCH, ADJUSTABLE
03950	0 TO 1 3-4 10IN LG	002423254	WRENCH, ADJUSTABLE
03950	0 TO 1.135	002780341	WRENCH, ADJUSTABLE
03950	0 TO 1.135	002780341	WRENCH, ADJUSTABLE

Main Menu Search Results Search Menu Print PN to NIIN Exit

The Alternate Number Cross-Reference data can also be accessed from the COSAL Products page.

COSAL Products Menu

APL/AEL: ALL APL/AELs

COSAL PRODUCTS
Naval Inventory Control Point - Mechanicsburg

- ☐ ... COSAL Summary of Allowance Parts List (SOAPL)
- ☐ ... Index Sections A & B
- ☐ ... Index Sections C, D & E
- ☐ ... Allowance Parts List (APL)
- ☐ ... Allowance Equipage List (AEL)
- ☐ ... SNSL Storeroom Items (SRI)
- ☐ ... SNSL Operating Space Items (OSI)
- ☐ ... SNSL Maintenance Assistance Module Items (MAM)
- ☐ ... Old NIIN to New NIIN
- ☐ ... Alternate Number/Part Number to NIIN Cross Ref
- ☐ ... COSAL Ship Value List (SVL)
- ☐ ... Items with Zero Allowance Quantity (Non-Computed)
- ☐ ... Component Characteristics File (CCF)
- ☐ ... Parent to Accessory (PTA)
- ☐ ... Additional Technical Document Numbers (TDN)
- ☐ ... Supplemental NIIN File (SNF)
- ☐ ... Non-Supported Allowance Parts List
- ☐ ... Non-Supported Equipage Parts List
- ☐ ... Special Category Item List
- ☐ ... Hazardous SCIL
- ☐ ... Control Equipage (CE)
- ☐ ... Fleet Allowance Aid List (FAAL)

Main Menu Exit

When the user selects "Alternate Number/Part Number to NIIN Cross Reference" from the COSAL Products screen they will see the data displayed in the same format as shown on the COSAL Data Page. If the user selects "Print PN to NIIN" the data will be displayed in the format shown in Figure 3-AA. Subparagraphs numbered 1 through 11 below correspond to the circled numbers on the Alternate Number Cross Reference to NIIN/NICN Figure 3-AA.

**COSAL PART III SECTION D
ALTERNATE NUMBER CROSS-
REFERENCE TO NIIN/NICN**

1. Commercial And Government Entity (CAGE)/Federal Supply Code for Manufacturers (FSCM).

2. Alternate Number. Primary and secondary alternate part numbers cross referenced to NIIN/NICN described in subparagraph 3 below.

3. NIIN/NICN. The latest NIIN /NICN for the alternate number in subparagraph 2 above.

4. Same as 1 above.

5. Same as 2 above.

6. Same as 3 above.

7. Ship Type and Hull Number. The specific ship/activity for which Section D is published.

8. Date. COSAL publication date.

9. Page. Consecutive page numbering from first to last page of Part III, Section D.

10. First Alternate Number on Page. The first alternate number listed on the page.

11. Last Alternate Number on Page. The last alternate number listed on the page.

NOTE: The Electronic File Identification number is E01BY1.

The above information may also be furnished in NIIN/NICN to alternate number sequence: e.g., Inverted III D.

PART III SECTION D ALTERNATE NUMBER CROSS REFERENCE TO NIIN/NICN					
CAGE	ALTERNATE NR	NIIN/NICN	CAGE	ALTERNATE NR	NIIN/NICN
81349	M24308 / 24-2	01-061-9731	81349	M26655-2-0208	00-495-0042
81349	M24308 / 24-3	00-593-9415	17576	M2701-101	LL-HDL-U246
81349	M24308 / 24-4	01-049-5003	17576	M2722-1	00-622-8568
81349	M24308 / 24-5	01-011-7668	17576	M2725-101	01-032-9719
81349	M24308 / 25-1	01-069-6794	98920	M2726-34-001	00-196-2292
81349	M24308 / 25-5	01-071-1722	81349	M2726-34-001 BLACK	00-196-2292
81349	M24308 / 26-1	01-052-9436	80064	M2726-37-001	00-086-8922
81349	M24308 / 3-1	00-410-0251	81349	M2726-38-001	00-220-2213
81349	M24308 / 3-3	00-439-3748	81349	M2726-39-001	01-070-8414
81349	M24308 / 3-4	00-481-5560	96906	M2726-47-002	LL-CU2-6947
81349	M24308 / 3-5	00-493-0466	96906	M2726-47-003	LL-CU2-6947
81349	M24308 / 4-1	00-466-3394	81349	M2726-48-001	00-935-2312
81349	M24308 / 4-2	00-490-3743	80064	M2726-50-001	00-325-0469
81349	M24308 / 4-262	00-603-6737	81349	M2726-50-001	00-325-0469
81349	M24308 / 4-263	00-539-2398	81349	M2726-50-002	00-134-5268
81349	M24308 / 4-3	00-489-9999	81349	M2726-69-001	00-449-1189
81349	M24308 / 4-4	00-410-9252	81349	M2726150-001	00-325-0469
81349	M24308 / 4-5	00-490-8389	17576	M2727-101	01-043-2211
81349	M24308 / 4-7	01-031-6991	81349	M27426-1105D	01-062-1923
05574	M24368-2-001	01-054-7409	81349	M27426-1114D	LL-MB1-9708
1 2 3 4 5 6 7 8 9 10 11					
SHIP/HULL DD 901	DATE 10-15-88	PAGE 311	FIRST ALTERNATE NR ON PAGE M24608/24-2		LAST ALTERNATE NR ON PAGE M27426-1114D

Figure 3-AA Part III Section D – Alternate Number to NIIN/NICN Cross Reference

GENERAL USE CONSUMABLE LIST PART III, SECTION E, SUBSECTION 1

The General Use Consumables List (GUCL) is a one time allowance product which includes the recommended initial range and depth of non-equipment related, general use consumables that are not identified on an APL/AEL. It provides a range and depth guide for requisitioning operating space and storeroom material to support new construction, major conversion and reactivation ships' routine maintenance and administrative operation for the first 90 day endurance period. Although considered an official allowance product, the GUCL is a recommended range and depth of items which may be adjusted within the funding constraints established by NAVSEA 04L4 and the authorizing Program Executive Office (PEO). Unlike other COSAL allowances, it is not maintained following its initial development and implementation.

As a result of a FY 05 joint NAVSEA/NAVICP Lean six Sigma event the GUCL was redefined and restructured to exclude discretionary (referred to previously as "GUCL Select") items and hazardous material (HAZMAT). The elimination of HAZMAT complies with a 2005 NAVAL Audit Finding and recommendation (re. Audit Report N2005-0027 of 17 Feb 2005).

The material listed in the GUCL is in addition to that included in other parts of a ship's COSAL. However, it should not duplicate allowances already appearing nor should it include medical equipment or repair parts, forms and publications, resale items, athletic uniforms, flight jackets, entertainment equipment, library books, cell phones, Personal Digital Assistants (PDAs), common hand

tools and any item listed in the NAVY Outfitting Program Policy and Procedures Manual (NOP) SCN funding exclusion list.. Examples of the type of items authorized include berthing, galley, barber and office supplies, and messing gear. Please note common hand tools should be allowed in the COSAL based on general/miscellaneous series AELs (e.g. 1-911) or equipment APL/AELs. For required changes/additions use the Allowance Change Request (ACR) process outlined in Chapter 5 of this manual (re: NAVSUP 1220-2).

The 2007 implementation of the Web based Master GUCL program within the Navy Data Environment (NDE) Outfitting Requisition Control and Accounting System (ORCAS) application provides the capability for authorized activities, e.g. SUPSHIPS, to develop and produce a GUCL directly from the database. This Master GUCL program has the capability to create, edit, validate and finalize a ship's GUCL for execution and outfitting. For details on program functions and capabilities including screen displays, reports, data content and descriptions refer to the ORCAS GUCL User's Guide. While this program eliminates the need for traditional production and publication, NAVICP-M continues to serve as the focal point for scheduling and oversight of the GUCL process.

FORMS & PUBLICATIONS (I COGNIZANCE)

PART III SECTION F

Part III, Section F I COG Forms and Publications is prepared, maintained, and distributed by Document Automation & Production Service (DAPS).

The initial outfitting of Section F contains the range and depth of sufficient Operating Space Items (OSI) and Store Room Items (SRI) forms to support the ship's maintenance and administrative operations during the specified endurance period. The range and depth for publications is for OSI only, and the endurance period is unlimited.

Section F is arranged into two subsections tailored to hull type and ship class. Section F is provided once during construction, conversion or reactivation and includes an introduction - one deck of pre-filled NAVSUP 1114m stock record cards (Afloat). DD1348s are not provided because outfitting of I COG material are supplied on a "push" basis. Ships undergoing supply overhaul may request republication of Section F including pre-filled 1348ms and/or pre-filled 1114s.

Section F comprises only a portion of the printed material that a ship needs to function. The Navy Stock List of Publications and Forms (NAVSUP 2002) will aid in identifying codes, requisitioning, and determining the source of supply for all I COG printed material.

Part III, Section F is furnished in two sections. Subparagraphs 1 through 9 refer to the circled numbers shown on Figure 3-BB.

1. SUBSECTION I is arranged in stock number sequence, listing the applicable item, cross-referenced to the identifying Title/Nomenclature.

2. SUBSECTION II lists the above-mentioned items by Title/Nomenclature in alphabetical sequence cross-referenced to the stock number.

3. Unit of Issue (U/I). For codes and definitions, see Appendix A.

4. Operating Space Item (OSI) Quantity. Recommended quantity for all Operating Space Items. An "*" indicates the requirement is less than the Unit of Issue and is included in the SRI column.

5. Store Room Item (SRI) Quantity. Recommended quantity of forms for storeroom stock. All publications are OSI, so the SRI QTY is zero.

6. Security Classification Code (SC). The codes and definitions are as follows:

- 1 - Confidential
- 2 - Confidential - Restricted Data
- 4 - Secret
- U - Unclassified

7. Requisition Restriction (RR). Limit quantity for a specific ship.

8. Carrying Point (CP). Indicates the source of supply.

9. Basic/Change (BC). Indicates the basic publication or change.

COSAL, PART III, SECTION F, SUBSECTION 1										
STOCK NO INCLUDING COG S/N SEQUENCE	FORM/PUB NO	TITLE/NOMENCLATURE	UI	OSI QTY	SRI QTY	SC	RR	CP	BC	
FORMS										
11 0101-LF-132-0070	NSEC 9881/8	DAMAGE CONTROL - FIRE PLUGS 2.10	PD	*	2	U		EF		
11 0101-LF-132-0080	NSEC 9881/9	DAMAGE CONTROL - RECORD OF PAGE REVISION D	PD	*	2	U		EF		
PUBLICATIONS										
01 0530-LP-016-1090	NSUP 7	INDEX (10110)	EA	2	0	U		EF	C	
01 0530-LP-050-5007	NSUP 505	PREPARATION OF HAZARDOUS MATERIAL FOR MILITARY	EA	2	0	U		EF	B	
01 0530-LP-052-0010	NSUP 520	ENLISTED DINING FACILITY MASTER AT ARMS HANDBOOK	EA	4	0	U	BG	EF	B	
COSAL, PART III, SECTION F, SUBSECTION II										
TITLE/NOMENCLATURE IN ALPHA SEQUENCE	STOCK NO	FORM/PUB NO	UI	OSI QTY	SRI QTY	SC	RR	CP	BC	
FORMS										
PUBLIC RELATIONS - HOME TOWN NEWS AUTHORIZED	0104-LF-907-2406	NSO 5724/1	PD	*	2	U		EF		
PUBLICATIONS										
SHIPBOARD ELECTRONICS MATERIAL OFFICER (1520)	0502-LP-052-3900	NEDTRA 10478	EA	1	0	U				
SHIP CONCEALMENT CAMOUFLAGE INSTRUCTIONS	0283-LP-101-7010	NS 250374	SE	1	0	U		EF		

Figure 3-BB Part III Section F – Forms and Publications (I Cognizance)

SHIP VALUE LIST

The Ship Value List is a statistical summary of item count and dollar value of the new COSAL. Subparagraphs 1 through 17 refer to the circled numbers shown on Figure 3-CC.

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Cognizance Symbol (COG) 2. Storeroom Items (SRI) <ul style="list-style-type: none"> (2A) Total NSNs (2B) Allowed Quantity (2C) Priced NSNs (2D) Extended Dollar (\$) Price 3. Operating Space Items <ul style="list-style-type: none"> (3A) Total NSNs (3B) Allowed Quantity (3C) Priced NSNs (3D) Extended Dollar (\$) Price 4. Maintenance Assistance Module Items (MAMS) <ul style="list-style-type: none"> (4A) Total NSNs (4B) Allowed Quantity (4C) Priced NSN (4D) Extended Dollar (\$) Price 5. Total (SRI + OSI + MAMS) <ul style="list-style-type: none"> (5A) Total NSNs (5B) Allowed Quantity (5C) Priced NSNs (5D) Extended Dollar (\$) Price 6. COG Totals (SRI) 7. COG Totals (OSI) 8. COG Totals (MAM) 9. COG Totals (SRI + OSI + MAM) | <ul style="list-style-type: none"> 10. Ship Totals (SRI) <ul style="list-style-type: none"> (10A) Total NSNs (10B) Allowed Quantity (10C) Priced NSNs (10D) Extended Dollar (\$) Price 11. Ship Totals (OSI) <ul style="list-style-type: none"> (11A) Total NSNs (11B) Allowed Quantity (11C) Priced NSNs (11D) Extended Dollar (\$) Price 12. Ship Totals (MAM) <ul style="list-style-type: none"> (12A) Total NSNs (12B) Allowed Quantity (12C) Priced NSNs (12D) Extended Dollar (\$) Price 13. Ship Totals (SRI + OSI) <ul style="list-style-type: none"> (13A) Total NSNs (13B) Allowed Quantity (13C) Priced NSNs (13D) Extended Dollar (\$) Price 14. Ship Type and Hull Number 15. UIC - Unit Identification Code 16. Date – COSAL publication date 17. Page - Consecutive page numbering |
|---|---|

COSAL SHIP VALUE LIST

NAVICPINST 4441.170B

COSAL SHIP VALUE LIST																	NAVICPINST 4441.170B
1	2				3				4				5				
COG	STOREROOM ITEMS				OPERATING SPACE ITEMS				MAINTENANCE ASSISTANCE MODULE ITEMS				TOTALS				
	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4C	4D	5A	5B	5C	5D	
	TOTAL NSNS	ALLOWED QUANTITY	PRICED NSNS	EXTENDED \$ PRICE	TOTAL NSNS	ALLOWED QUANTITY	PRICED NSNS	EXTENDED \$ PRICE	TOTAL NSNS	ALLOWED QUANTITY	PRICED NSNS	EXTENDED \$ PRICE	TOTAL NSNS	ALLOWED QUANTITY	PRICED NSNS	EXTENDED \$ PRICE	
2T	0	0	0	0	1	1	1	127	0	0	0	0	1	1	1	127	
8T	0	0	0	0	5	11	5	17783	0	0	0	0	5	11	5	17783	
9T	2	6	0	490	0	0	0	0	0	0	0	0	2	6	0	490	
	COG TOTALS				COG TOTALS				COG TOTALS				COG TOTALS				
	2	6	0	490	6	12	6	17910	0	0	0	0	8	18	6	18400	
2V	0	0	0	0	1	1	1	183947	0	0	0	0	1	1	1	183947	
9V	1	2	1	4	0	0	0	0	0	0	0	0	1	2	1	4	
	COG TOTALS				COG TOTALS				COG TOTALS				COG TOTALS				
	1	2	1	4	1	1	1	183947	0	0	0	0	2	3	2	183951	
9W	2	4	2	134	0	0	0	0	0	0	0	0	2	4	2	134	
	COG TOTALS				COG TOTALS				COG TOTALS				COG TOTALS				
	2	4	2	134	0	0	0	0	0	0	0	0	2	4	2	134	
9Y	1	1	1	298	5	6	5	476	0	0	0	0	6	7	6	774	
	COG TOTALS				COG TOTALS				COG TOTALS				COG TOTALS				
	1	1	1	298	5	6	5	476	0	0	0	0	6	7	6	774	
7Z	0	0	0	0	45	82	45	486427	0	0	0	0	45	82	45	486427	
9Z	3	5	3	475	1	1	1	207	0	0	0	0	4	6	4	682	
	6				7				8				9				
	COG TOTALS				COG TOTALS				COG TOTALS				COG TOTALS				
	3	5	3	475	46	83	46	486634	0	0	0	0	49	88	49	48710	
	SHIP TOTALS				SHIP TOTALS				SHIP TOTALS				SHIP TOTALS				
	10A	10B	10C	10D	11A	11B	11C	11D	12A	12B	12C	12D	13A	13B	13C	13D	
	5467	27587	4048	2027681	4781	39031	4530	6671365	245	301	245	5500847	10493	66919	8823	14199893	
SHIP TYPE AND HULL NUMBER				DDG 106	UIC R23163				DATE 6/15/2007				PAGE				
14					15				16				17				
Figure 3-CC Ship Value List																	3-68

SUPPLEMENTAL PRODUCT PROVIDED BY NAVICP-MECHANICSBURG

D. SUPPLEMENTAL PRODUCT PROVIDED BY
NAVICP-M:

1. AVIATION ORDNANCE (AVORD) AVIATION
CONSOLIDATED ALLOWANCE LISTING (AVCAL)

a. The AVCAL supplement is an authoritative document listing the major components, repair parts and consumable items required by a ship to perform its operational mission in support of assigned aircraft with consideration for available organic repair capability. It includes the items and quantity of each item that should be on hand to achieve a self-supporting capability for a prescribed period of time. The material allowances prescribed in the supplement constitute the organic levels of assigned aircraft/support equipments afloat. The AVCAL supplement contains AVORD items that are managed by NAVICP-M. Examples of some Ordnance Equipment that we provide allowance and configuration information are the SIDEWINDER AIM 9H/L/M, SPARROW AIM 7E/F/M, SHRIKE AGM-45A, M61A1 20 MM GUN, HARPON, XM-218 MACHINE GUN.

CHAPTER 4- USING THE COORDINATED SHIPBOARD ALLOWANCE LIST (COSAL) AND A COSAL TROUBLESHOOTING GUIDE

A.	USING THE COSAL	4-2
1.	Summary of COSAL Parts and Sections	4-2
2.	Methods of COSAL Entry	4-3
3.	How to Use Part II, Section B of an Electronic Equipment Allowance Parts List (APL)	4-6
4.	Guidelines	4-6
5.	Sample Problems	4-6
B.	COSAL TROUBLESHOOTING GUIDE	4-9

A. USING THE COSAL

1. Summary of COSAL Parts and Sections. This chapter summarizes the parts and sections of the COSAL and shows some of the ways the COSAL may be accessed and used. The various data sequences for each part and section of the COSAL are listed below.

<u>Part</u>	<u>Section</u>	<u>Sequence</u>
Summary of Allowance Parts/Equipage Lists	Summary of APLs/AELs (SOAPL)	Allowance Parts List (APL)/Allowance Equipage List (AEL) Number by equipment type
I	Index A	Nomenclature Sequence to APL/ AEL
I	Index B	Service Application Code to APL/AEL
I	Index C	APL/AEL Sequence to Equipment Identification Code (EIC) to Automated Integrated Language System Identification Number (AILSIN) or Hierarchical Structure Code (HSC)/Functional Group Code (FGC)
I	Index D	EIC Sequence to APL/AEL
I	Index E	AILSIN to APL
II	A	APLs within equipment categories
	B	Circuit Symbol Number to Stock Number (Electronic APLs only contained within General Distribution APL /AEL Bank (GDAPL))
II	C	AELs within equipment categories
III	A	Stock Number Sequence List (SNSL) for Storeroom Items (SRI)
III	B	SNSL for Operating Space Items (OSI)
III	CF	SNSL for Maintenance Assistance Modules (MAMs)
III	-----	Ship Value List
III	Cross reference	Old to New Stock Number/New to Old Stock Number
III	D	Alternate Number Cross Reference to Stock Number
III	E*	General Use Consumables List (GUCL) (New construction ships only)
III	F*	I COG Forms and Publications

* Distributed Separately

2. Methods Of COSAL Entry. The COSAL is used to find both the supply and technical information needed to provide spare parts support. You can locate the information you need by entering the COSAL from several different points. Pages 4-3 to 4-5 explain where to go in the COSAL using what you know about the item.

<u>IF KNOWN ELEMENT IS</u>	<u>REFER TO COSAL</u>	<u>TO FIND</u>
Equipment/Component/Equipage Nomenclature/Characteristics	Part I, Section A	Identification Number e.g. APL/AEL Quantity Installed AEL Column Number Allowance Support Code (ASC) Service Application Information Equipment/Component Military Essentiality Code (MEC)
Service Application Code (SAC)	Part I, Section B	Equipment/Component MEC Equipment/Component/Equipage Nomenclature/Characteristics Identification Number e.g. APL/AEL Quantity Installed AEL Column Number ASC
APL/AEL Number	Part I, Section C	Application/Identification Number Activity Code (AINAC) EIC AILSIN or HSC/FGC Service Code Work Center (WC) Component Name Maintenance Index Page (MIP) Record Identification Number (RIN) Quantity/Column Equipment Location Serial Number/Valve Mark/Electronic Symbol Number Commercial and Government Entity (CAGE)

IF KNOWN ELEMENT IS

APL/AEL Number (continued)

REFER TO COSAL

SOAPL

Part II, Section A or C

TO FIND

Verification that the Equipment/
Component/Equipage has or should have an
APL/AEL or Allowance Components List (ACL)
in Part II

Equipment/Component
Nomenclature/Characteristics
Reference to Technical Manuals
Manufacturer's Drawing Number
Name of Part
Source, Maintenance and Recoverability Code
(SM&R)
Notes
Quantity in one Equipment/
Component
Unit of Issue
Stock Number
Allowed Qty (AEL only)

EIC

Part I, Section D

APL/AEL Number
AINAC
AILSIN/FGC/HSC
SAC
WC
Item Name
MIP
RIN
Qty/Col
Location
Serial Number/Valve Mark
CAGE

<u>IF KNOWN ELEMENT IS</u>	<u>REFER TO COSAL</u>	<u>TO FIND</u>
AILSIN FGC HSC	Part I, Section E	APL/AEL Number
National Stock number (NSN)/Temporary - Navy Item Control Number (T- NICN)/Permanent - Navy Item Control Number (P-NICN)	Part III, Section A (SNSL or Integrated Stock List (ISL)) (If provided) Part III, Section B (OSI) Part III, Section CF (MAM)	Item Name APL/AEL Number Unit of Issue Allowed Qty Notes
Part Number (P/N)	Part III, Section D	National Item Identification Number (NIIN)/Navy Item Control Number (NICN) CAGE Item Name
Reference Designator (Electronics Equipment only) or Circuit Symbol Number (CSN)	Section B of the Electronic Equipment APL	Unit Number (part of the CSN) CSN Notes CAGE REF NO./NIIN/NICN SM&R Code Number of Applications with the same CSN Equipment Nomenclature for which the APL is prepared APL Number
Old NIIN/T-NICN/P-NICN	Old to New Stock Number Cross Reference List	Item Name New COG New NIIN/T-NICN/P-NICN New Federal Supply Classification (FSC) New Special Material Identification Code (SMIC)

3. How to Use Part II, Section B of an Electronic Equipment APL. Part II, Section B of electronic APLs is furnished as part of GDAPL on Compact Disc - Read Only Memory (CD-ROM). It is in CSN/Reference Designator sequence (or part number sequence for some equipments such as training devices or teletype) within the respective APL. It contains those CSNs that appear in the technical manual for the equipment. The CSNs are cross-referenced to the CAGE/Part Number (Reference Number) on the GDAPL. This data is resident on the F6 option in GDAPL. Determine the CSN using the technical manual for the equipment. Locate the CSN in Section B and determine the SM&R code and part number. If the SM&R code reflects user replacement capability, determine the NSN, T-NICN, or P-NICN, using Section A. Refer to the applicable section of the COSAL Part III to determine if the item is allowed. If the SM&R code indicates the user is not capable of replacing the item, the next higher assembly should be located and the above procedure used to determine its SM&R code and NSN.

4. Guidelines.

a. The COSAL is the primary authorized technical/supply allowance document for shipboard equipments/components or equipage and related repair parts.

b. If a repair part is not included in the COSAL, the request must be examined closely to ensure that the equipment is covered by the COSAL.

(1) Refer to Part III, Sections A, B, CF of the SNSL to locate the NSN/T-NICN/P-NICN. Up to nine

c. All APL-worthy equipments/components or equipage should be listed in your COSAL. If supported equipment/component or equipage is not listed, the COSAL is incomplete and must be corrected. Following the guidelines will result in:

(1) Accumulation of repair part usage (historical) data.

(2) Application of repair part usage (historical) data to improve COSAL support.

(3) Continual updating of the COSAL.

(4) Tailoring of the on board repair parts to fit the ship's maintenance capability.

(5) Reduction in the number of "not carried" items.

5. Sample Problems. The following sample problems are derived from practical experience and their solutions will familiarize you with the COSAL and its use:

a. PROBLEM 1 - You know the NSN/T-NICN/P-NICN of a repair part but not the associated equipment/component APL/AEL.

equipment/ component applications will be reflected in Part

III. More than nine applications will be annotated as "and others."

(2) Knowing the APL/AEL Identification Number, refer to the APL/AEL in Part II to find any additional information on the component.

b. PROBLEM 2 - You know the service or end use of the item or the noun name of the equipment/component to which the part is related, but not the stock number.

(1) Refer to Part I Index (Section A or B as applicable) and locate the component and applicable identification number for the APL/AEL

(2) Refer to Part II and locate the appropriate APL or AEL. Here you will find a breakdown of the repair parts applicable to the APL/AEL. Locate the assigned stock number by the nomenclature of the item, (i.e., brush, bearing, impeller, etc.), and refer to Part III to determine if the item is allowed.

c. PROBLEM 3 - You know the part number of the repair part, but you do not know the related stock number or equipment/component.

(1) Refer to Part III, Section D, to see if the part number is listed as an alternate number. If listed, the alternate will be cross-referenced to a NIIN/T-NICN/P-NICN. If it is not,

(a) Refer to the Master Cross Reference List (MCRL) to see if the part number will cross to a NIIN/T-NICN/P-NICN. If it does not,

(b) Verify the part number in the technical manual or on the old part.

d. PROBLEM 4 - An equipment casualty has occurred and you want to determine what repair parts are available for immediate repairs.

(1) If the APL/AEL number is not known, refer to the COSAL, Part I, Index Section A or B to locate the component by name or service to determine the APL/AEL number.

(a) If the equipment/component does not appear, verify the nameplate data. If it does, use the APL/AEL number, refer to the COSAL, Part II and locate the appropriate APL/AEL which will list all the repair parts applicable to the equipment/ component. This will lead you NSNs.

(b) If the parts do not correspond to the "down equipment", verify the equipment/component nameplate data. If they do use the NIINs/T-NICNs/P-NICNs to enter Part III, Section A or B to determine if the parts are allowed items and the authorized allowance quantity.

NOTE: If the equipment/component identification number (APL/AEL number) is already known, go to Part II and proceed with the instructions in Paragraph b (1) & (2) above.

e. PROBLEM 5 - "The Stationary Contact "must be replaced on the 3HP Controller for the ship's "Shop Machine Lathe." You do not know the component APL/AEL number, but you do have the nameplate data of the controller. There are two methods for entering the COSAL to determine the applicable identification number of the controller.

(1) Refer to the COSAL, Part I, Index Section A, and locate the component by its noun name and descriptive data. In this instance you would look for "Controller, 3HP," etc. If the controller is listed, proceed to Part II. If not,

(2) Refer to the COSAL Part I, Index Section B, and locate the component by its service application. In this instance you would look for "Shop Machine Lathe." If the equipment is not listed, validate the nameplate data and prepare a Configuration Change Form (CCF) (OPNAV 4790/CK). If it is listed, proceed to Part II. Check the component characteristics on the APL against the nameplate data of the 3HP Controller to assure you have the correct APL.

(3) You will find a breakdown of repair parts on the APL. Select the required part, either by name, description, or reference number. This will give you the NIIN/T-NICN/ P-NICN for the part. The allowed quantity must be obtained from the COSAL, Part III, Section A, B, CF, or CR since APLs contained in the COSAL will not have quantities printed in the On Board Allowance Table columns.

(4) Using the NIIN/T-NICN/P-NICN (see paragraph c above), refer to the COSAL, Part III Section A to determine the on board allowance quantity.

B. COSAL TROUBLESHOOTING GUIDENOTE

This Troubleshooting Guide covers conditions/problems that may be encountered during the process of identifying a required part. Other troubleshooting guides are located throughout this manual to cover other specific problems. In addition, Chapter 5 provides detailed instructions for preparing various reports and forms needed to correct such problems.

<u>CONDITION/PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>ACTION REQUIRED</u>
Part not listed in Technical Manual (TM)	Using incorrect TM	Compare TM with equipment
	Error in TM	Technical Manual Deficiency/Evaluation Report (TMDER)
Part listed in TM not listed on APL	Using incorrect APL	Compare TM with APL
	Part missing on APL	Fleet COSAL Feedback Report (FCFBR) through the Automated COSAL Improvement Program (ACIP)
P/N in TM differs from P/N on APL	Error in TM	Technical Manual Deficiency/Evaluation Report (TMDER)
	Error on APL	Fleet COSAL Feedback Report (FCFBR)
Errors in information in COSAL indices other than equipment installed quantities	Missing/incorrect information	Configuration Change Form (OPNAV 4790/CK)

<u>CONDITION/PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>ACTION REQUIRED</u>
Errors in equipment installed quantities in COSAL indices	Configuration status error	Configuration Change Form (OPNAV 4790/CK)
Equipment not supported in COSAL	Configuration change not reported to Configuration Data Manager (CDM)	Configuration Change Form (OPNAV 4790/CK)
Equipment supported in COSAL not installed	Configuration change not reported to CDM	Configuration Change Form (OPNAV 4790/CK)
TM number not listed on APL or is incorrect	APL error	Fleet COSAL Feedback Report (FCFBR)
Characteristics data on APL is missing or Incorrect	Using incorrect APL	Compare characteristics data with equipment
	APL error	Fleet COSAL Feedback Report (FCFBR)
APL worthy components not listed on APL	Configuration change not reported to CDM	Configuration Change Form (OPNAV 4790/CK)
Reference Symbol Number (RSN) crosses to incorrect Part/Stock Number	APL error	Fleet COSAL Feedback Report (FCFBR)
Error in SM&R Code	Technical error	Fleet COSAL Feedback Report (FCFBR)

<u>CONDITION/PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>ACTION REQUIRED</u>
Error in Allowance Notes Code (ANC)	Technical error	Fleet COSAL Feedback Report (FCFBR)
Quantity in one equipment/component is incorrect	APL error	Fleet COSAL Feedback Report (FCFBR)
Maintenance significant item not listed on APL	Using incorrect APL	Verify APL against equipment
	Determined not to be maintenance significant	Fleet COSAL Feedback Report (FCFBR)
Required Item Non-Allowed	SM&R	Review SM&R Code for possible explanation
	NOTE: If SM&R Code provides no explanation for non-allowance, review the ANC. If the SM&R code provides an explanation for non-allowance and you disagree with the explanation, submit a FCFBR.	
	ANC	Review ANC
	NOTE: If ANC provides no explanation for non-allowance, assume the item did not pass the current computation method. If the ANC is incorrect or indicates the item is required for Planned Maintenance System (PMS), submit a FCFBR.	
PMS required item is non-allowed	Technical override not assigned AOR Code P is missing	Fleet COSAL Feedback Report (FCFBR)
Allowed quantities insufficient to perform PMS	Technical error	Fleet COSAL Feedback Report (FCFBR)

CHAPTER 5 - MAINTAINING THE COORDINATED SHIPBOARD ALLOWANCE LIST (COSAL)

COSAL maintenance includes reporting configuration changes, processing changes, and detecting inconsistencies between the COSAL and other Ship's Selected Records (SSRs). It also includes reporting conditions that adversely affect the shipboard maintenance effort when they are discovered.

This chapter provides detailed procedures for maintaining the COSAL during the various life cycles of a ship. The reporting responsibilities and COSAL maintenance procedures differ during those cycles. Therefore, this chapter is subdivided into the following sections:

SECTION A	SHIP'S OPERATING CYCLE.....	5-4
SECTION B	COSAL SUPPORT FOR AUTOMATED SHIPS	5-28

2. Documenting and Funding Configuration Changes	5-4
OPNAV 4790/CK	5-5
Automated Technical Feedback Report (TFBR)	5-12
Allowance Change Request (ACR)	5-13
Fleet COSAL Feedback Report (FCFBR)/Automated COSAL Improvement Program (ACIP)..	5-14
Allowance Change Request-Fixed (ACR-F)	5-17
Technical Manual Deficiency/Evaluation Report (TMDER)	5-18
3. COSAL Related Correspondence	5-19
4. Ship's COSAL Maintenance Instruction and Record	5-19
5. Screening Requirements	5-19
6. Casualty Report (CASREP) Requirements	5-19
7. Processing a Configuration Add to the COSAL	5-22
8. Interim Repair Parts Kits	5-27
9. Ready Service Spares (RSS)	5-27
10. Maintenance Assistance Modules (MAMs)	5-27
11. Depot Level Repairables (DLR)	5-27

FIGURES

5-A-1	Reporting Maintenance Support Conditions/Problems	5-8
5-A-2	Ships Configuration Change Form OPNAV 4790/CK	5-9
5-A-3	Flow Chart for Processing a Ship's Configuration Change Form.....	5-11
5-A-4	Supply Requirements for CASREP Reporting	5-21
5-A-5	Interim Allowance Parts Lists.....	5-24
5-A-6	Logic Diagram for Processing an Interim Allowance Parts List.....	5-25
5-A-7	Maintenance Capability Level Codes	5-26

SECTION A SHIP'S OPERATING CYCLE. Completing a Regular Overhaul (ROH) or a Complex Overhaul (COH) triggers the start of the ship's operating cycle.

1. Controlling Data Flow. Successfully performing ship's maintenance relies heavily upon an accurate equipment configuration baseline plus logistics and supply support technical data. The Navy's ability to effectively and efficiently plan, perform maintenance, alterations and provide necessary logistics support to ships depends on controlling the configuration of ships, systems, and equipment. If equipment is installed onboard without a corresponding configuration change being submitted to the Configuration Data Manager (CDM), the ship will not receive the proper logistics support.

a. The primary responsibility for ensuring that accurate and current configuration data is reported to the Weapon Systems File (WSF) and Configuration Data Manager Database Open Architecture (CDMD-OA) lies with the ship's commanding officer. For those ships equipped with the Shipboard Non-Tactical ADP Program (SNAP), configuration changes are completed in an automated fashion. SNAP allows for online documentation of the same configuration change information that is collected for non-automated ships on the Configuration Change Form (CCF) (OPNAV 4790/CK form). Configuration and logistics change information is periodically forwarded from the ship to the Type Commander (TYCOM). The TYCOM forwards the data to the Naval Sea Logistics Center (NSLC) Central Data Exchange (CDE) which maintains the data in the Material History File. The data is then forwarded to the applicable CDM. The CDM reviews the data for accuracy and completeness and updates the CDMD-OA database. The data is then processed into the WSF from CDMD-OA. Configuration data received by the CDM is also provided to

the Regional Maintenance Center (RMC) for updating its Planned Maintenance System (PMS) files and the Naval Sea Data Support Activity (NSDSA) to update the Enhanced Ships Technical Publications System (ESTEPS) database. Once the data has been processed at Naval Inventory Control Point-Mechanicsburg (NAVICP-M), feedback is provided to the ship via manual or automated means.

b. The system for SNAP Automated Shore Interface (ASI) provides a set of procedures for the automated exchange of configuration and logistics data between ship and shore to ensure data integrity between the ship's database and the CDMD-OA database/WSF. Through the ASI process, equipment configuration updates, Allowance Parts List (APL) supersessions/cancellations, pen and ink changes, allowance updates, and other logistics changes are provided electronically to update an automated ship's files. The ASI process is currently used on SNAP Optimized ships (both UNIT and FORCE) equipped with the Organizational Maintenance Management System-Next Generation (OMMS-NG)/Relational Supply (R-Supply), Ported (Legacy) SNAP ships and Micro-SNAP sites.

2. Documenting and Funding Configuration Changes.

a. COSAL maintenance is the joint responsibility of both maintenance and supply personnel. The "hands on" maintenance technician is most aware of what is happening to his/her equipment and he/she is the primary reporting source. The technician must be able to detect and report his/her maintenance support problems. The methods to be used are described below and summarized in Figure 5-A-1. Stores division personnel must process these COSAL and configuration maintenance reports promptly. The supply

officer must also ensure the change reported is "validated" for accuracy.

b. Reporting configuration changes and inconsistencies between the COSAL and COSAL-related logistics support systems may be accomplished by completing and submitting the following reports/forms:

- (1) Configuration Change Form (CCF) (OPNAV 4790/CK)
- (2) Automated Technical Feedback Report (TFBR)
- (3) Allowance Change Request (ACR)
- (4) Allowance Change Request-Fixed (ACR-F)
- (5) Fleet COSAL Feedback Report (FCFBR) (NAVSUP Form 1371 (4-80))
- (6) Technical Manual Deficiency/Evaluation Report (TMDER) (NAVSEA 9086/10)

c. During the normal operation cycle, it is a ship's responsibility to report all equipment changes detected or accomplished by an Alteration Installation Team (AIT), an Intermediate Maintenance Activity (IMA), or by ship's force. This includes all additions, deletions, modifications and increases or decreases in the quantity of previously reported installed equipment. The OPNAV Form 4790/CK is the vehicle for correcting/reporting these configuration data errors/changes. Instructions for preparing OPNAV 4790/CK

are found in NAVSEAINST 4790.8B. See Figure 5-A-2 for sample OPNAV 4790/CK.

NOTE: The responsibility for developing and maintaining the Fleet Ballistic Missile Weapon System (FBMWS) and TRIDENT Strategic Weapon System (SWS) allowance documents rests with the Strategic Systems Program (SSP). For detailed information see NAVICPINST 4441.176, Trident COSAL Use and Maintenance Manual.

d. Ships that are Revised Alternative Dataflow (RAD) capable can expect a much quicker turnaround time for CK's sent off ship vice those CK's processed via the traditional ASI method in Ships Configuration and Logistics Support Information System (SCLSIS). Specifically, the CK processing loop is reduced from a 6 to 9 month cycle to a 3 to 8 week cycle under RAD.

RAD speeds the closure of the configuration update loop. Correct shipboard configuration in SCLSIS and the WSF ensures the ship will receive automated tech manual changes, APL updates and PMS revisions as they are distributed. TYCOM PMS notes contain specific guidance for the implementation of mandatory shipboard equipment/configuration validation programs. An active equipment validation program will assist units in clearing up configuration errors.

Through the Maintenance Data Subsystem (MDS), SNAP ships have an automated means to report configuration changes and configuration data updates. OPNAV 4790/CKs along with maintenance actions (OPNAV 4790/2K) are sent off ship via Maintenance, Material and Management (3-M) up line reporting to the TYCOMs Maintenance Resource Management System (MRMS) site for further transmission to NSLC's CDE. From here the data is redistributed to four different areas: the 3-M central data bank for OPNAV 4790/2Ks; the CDM for CKs, file corrections and logistics support data; the Logistics Element Support Activity (LESA) for logistics support data associated

with configuration; and the In-Service Engineering Agent (ISEA) for configuration and alteration data. It is these databases that allow the whole infrastructure to keep the configuration and maintenance data up-to-date and accurate.

For RAD capable ships, configuration data changes resulting from the processed CKs are combined to create a sequenced ASI product which is then placed directly into a ship's RAD mailbox. The CDMD-OA system will forward the necessary triggers to the WSF where piece parts and supply support data will be produced and collected to create another sequenced ASI product which is also placed in the ship's mailbox to await download by the ship. In effect, equipment records and piece part data will be sent first to a ship's mailbox followed by the allowances.

e. Normally, requisitioning of allowance deficiencies resulting from configuration adds/increases reported by OPNAV 4790/CK is accomplished after receipt of the COSAL in Access (CIA) maintenance or ASI from NAVICP-M via CDMD-OA. However, ships may order allowance deficiencies for 4790/CKs when necessary, using the following procedures:

(1) Obtain a copy of the Interim APL that supports the equipment reported on the 4790/CK.

(2) Process the APL as an add transaction to the COSAL and SNAP MDS and Supply and Financial Management Subsystem (SFM).

(3) Determine the difference in allowance quantities between current COSAL Stock Number Sequence List (SNSL)/Integrated Stock List (ISL) and NAVSUP 1114M stock records/SNAP Stock Record File (SRF) and the allowance quantities on APL for the reported equipment.

(4) Prepare and submit requisitions for allowance deficiencies in accordance with NAVSUP PUB 485 Chapter 3.

(5) Upon receipt of the CIA maintenance or ASI file from NAVICP-M via CDMD-OA, repeat (1) - (4) above. This is necessary to ensure that the most current APL, National Item Identification Numbers (NIINs), and allowance quantities were used in the preliminary ordering process.

f. For non-automated ships, the principal or parent equipment is reported on the OPNAV 4790/CK form. The

secondary components (or family equipments in the case of electronics) may be reported on the OPNAV 4790/CK (C), Ship's Configuration Change Form (Continuation). For automated ships, the principal or parent equipment is reported as a configuration change, and the secondary components may be reported as additional pages of the same configuration change.

g. Figure 5-A-3, contains a flow chart for processing configuration changes on both automated and non-automated ships.

NON-AUTOMATED SHIPS						AUTOMATED SHIPS				
CONDITION/PROBLEM	4790/C	TFBR	FC	FC	FC	CONFIG	TFBR	FC	FC	FC
		TMDER	FBR	ACR	ACR-F	CHG	TMDER	FBR	ACR	ACR-F
Equipment on board but not supported in COSAL	X					X				
Equipment nameplate data does not agree with COSAL	X					X				
Equipment not on board but supported in COSAL	X					X				
Equipment installed or removed	X					X				
Equipment installed quantity is incorrect or changed	X					X				
Equipment is modified (field change, ORDALT, etc.)	X					X				
Allowed item required for PMS not included in LOEP		X					X			
Non-Allowed TEMPT required for PMS				X					X	
Allowed quantity insufficient for PMS				X					X	
Wrong part number cited on APL (TM correct)				X					X	
Part/Item not listed on APL				X					X	
Erroneous coding on APL (e.g., SM&R Code, Note Code)				X					X	
APL incomplete (missing information)				X					X	
APL technical problem				X					X	
Request for increase/decrease in OSI allowance (non Demand Based)					X					X
Request for increase/decrease in allowance (Demand Based DLRs)										X
Part not listed in Technical Manual (TM)		X					X			
Wrong part number cited in TM (APL correct)		X					X			
Part number cited in TM and COSAL differ			X					X		

Figure 5-A-1 Reporting Maintenance Support Conditions/Problems

SHIPS CONFIGURATION CHANGE FORM										OPNAV 4790/CK (5-84)	
S/N 0107-LF-047-9001										COVER FILE	
SECTION I: JOB IDENTIFICATION										COVER FILE	
1 SHIP'S NAME		2 WORK CENTER		3 JOB REQ. NO.		4 ALTERNATION IDENTIFICATION		5 JOB CONTROL NUMBER		6 ALTERNATION IDENTIFICATION	
L.P. AIR. COMPRESSOR		03129		EXSA		B689		SALS		D28758	
7 EQUIPMENT NAME		8 FULL NAME		9 ISD		10 T.F.		11 F.O.		12 D	
L.P. AIR. COMPRESSOR		ISD 29		0040		0100		0030		5.B	
SECTION II: JOB DESCRIPTION/REMARKS											
12 JOB DESCRIPTION/REMARKS											
SECTION III: COMPONENT CONFIGURATION CHANGE IDENTIFICATION											
13 COMPONENT NAME											
L.P. AIR. COMPRESSOR											
14 COMPONENT IDENTIFICATION											
ANDB2											
15 COMPONENT IDENTIFICATION											
061900511											
16 COMPONENT IDENTIFICATION											
COMPRESSOR											
17 COMPONENT IDENTIFICATION											
AIR. SYSTEM											
18 COMPONENT IDENTIFICATION											
OBA											
19 COMPONENT IDENTIFICATION											
ACB											
20 COMPONENT IDENTIFICATION											
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100 COMPONENT IDENTIFICATION											
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Example: Figure 5-A-2 Ships Configuration Change Form OPNAV 4790/CK

SHIPS CONFIGURATION CHANGE FORM CONTINUATION PAGE
(REV 5-84) SHIP 01074F-047-9010

OPNAV 4790/CK/C

SHIP'S UIC 03129		JOB CONTROL NUMBER E689		ALTERNATION IDENTIFICATION SALSD 28758		SAME AS P1, SHIP EXCEPT		PAGE 2		OF 2	
13 COMPONENT NOUM NAME		16 COMPONENT IDENTIFICATION		17 COMPONENT SERIAL NUMBER		20 EIC		23 WORK CENTER		14 QUANTITY 0021	
18 COMPONENT AP/LABEL N		19 LOCATION (DEC/NAME/SIDE)		22 S.A.C.		23 WORK CENTER					
21 NEXT HIGHER ASSEMBLY WORTHINGTON-CET INC HOLYOKE OP ERATION 200 CFM AT 125 PSI 100 O R P M F R I D 3 2 E Z											
25 MIN		26 EGS									
27 TM											
28 MIN		29 AL/SIN		30 SECAS OFFICE USE							
JOB CONTROL NUMBER		3 JOB SEQ. NR.		ALTERNATION IDENTIFICATION		SAME AS P1, SHIP EXCEPT		PAGE		OF	
2 WORK CENTER		4 ALTERNATIONS (SHIP/LT, FLD, CHG, ETC.)									
13 COMPONENT NOUM NAME		16 COMPONENT IDENTIFICATION		17 COMPONENT SERIAL NUMBER		20 EIC		23 WORK CENTER		14 QUANTITY 15 CA	
18 COMPONENT AP/LABEL		19 LOCATION (DEC/NAME/SIDE)		22 S.A.C.		23 WORK CENTER					
21 NEXT HIGHER ASSEMBLY											
24 NAME/PLATE DATA											
25 MIN		26 EGS									
27 TM											
28 MIN		29 AL/SIN		30 SECAS OFFICE USE							
JOB CONTROL NUMBER		3 JOB SEQ. NR.		ALTERNATION IDENTIFICATION		SAME AS P1, SHIP EXCEPT		PAGE		OF	
2 WORK CENTER		4 ALTERNATIONS (SHIP/LT, FLD, CHG, ETC.)									
13 COMPONENT NOUM NAME		16 COMPONENT IDENTIFICATION		17 COMPONENT SERIAL NUMBER		20 EIC		23 WORK CENTER		14 QUANTITY 15 CA	
18 COMPONENT AP/LABEL		19 LOCATION (DEC/NAME/SIDE)		22 S.A.C.		23 WORK CENTER					
21 NEXT HIGHER ASSEMBLY											
24 NAME/PLATE DATA											
25 MIN		26 EGS									
27 TM											
28 MIN		29 AL/SIN		30 SECAS OFFICE USE							
JOB CONTROL NUMBER		3 JOB SEQ. NR.		ALTERNATION IDENTIFICATION		SAME AS P1, SHIP EXCEPT		PAGE		OF	
2 WORK CENTER		4 ALTERNATIONS (SHIP/LT, FLD, CHG, ETC.)									
13 COMPONENT NOUM NAME		16 COMPONENT IDENTIFICATION		17 COMPONENT SERIAL NUMBER		20 EIC		23 WORK CENTER		14 QUANTITY 15 CA	
18 COMPONENT AP/LABEL		19 LOCATION (DEC/NAME/SIDE)		22 S.A.C.		23 WORK CENTER					
21 NEXT HIGHER ASSEMBLY											
24 NAME/PLATE DATA											
25 MIN		26 EGS									
27 TM											
28 MIN		29 AL/SIN		30 SECAS OFFICE USE							
JOB CONTROL NUMBER		3 JOB SEQ. NR.		ALTERNATION IDENTIFICATION		SAME AS P1, SHIP EXCEPT		PAGE		OF	
2 WORK CENTER		4 ALTERNATIONS (SHIP/LT, FLD, CHG, ETC.)									
13 COMPONENT NOUM NAME		16 COMPONENT IDENTIFICATION		17 COMPONENT SERIAL NUMBER		20 EIC		23 WORK CENTER		14 QUANTITY 15 CA	
18 COMPONENT AP/LABEL		19 LOCATION (DEC/NAME/SIDE)		22 S.A.C.		23 WORK CENTER					
21 NEXT HIGHER ASSEMBLY											
24 NAME/PLATE DATA											
25 MIN		26 EGS									
27 TM											
28 MIN		29 AL/SIN		30 SECAS OFFICE USE							
JOB CONTROL NUMBER		3 JOB SEQ. NR.		ALTERNATION IDENTIFICATION		SAME AS P1, SHIP EXCEPT		PAGE		OF	
2 WORK CENTER		4 ALTERNATIONS (SHIP/LT, FLD, CHG, ETC.)									
13 COMPONENT NOUM NAME		16 COMPONENT IDENTIFICATION		17 COMPONENT SERIAL NUMBER		20 EIC		23 WORK CENTER		14 QUANTITY 15 CA	
18 COMPONENT AP/LABEL		19 LOCATION (DEC/NAME/SIDE)		22 S.A.C.		23 WORK CENTER					
21 NEXT HIGHER ASSEMBLY											
24 NAME/PLATE DATA											
25 MIN		26 EGS									
27 TM											
28 MIN		29 AL/SIN		30 SECAS OFFICE USE							

Example: Figure 5-A-2 Configuration Change Form Continuation Page, OPNAV 4790/CK

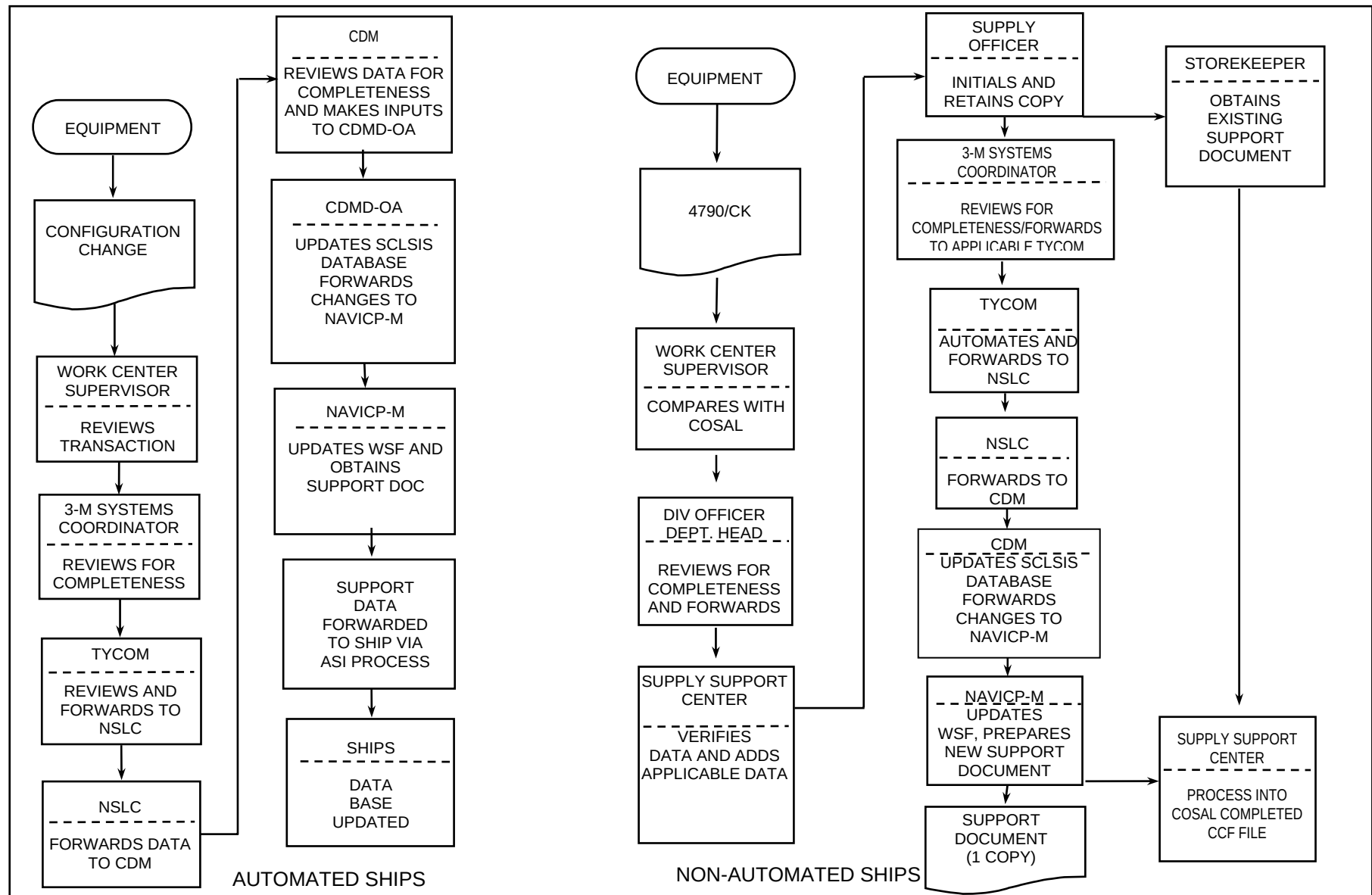


Figure 5-A-3 Flow Chart for Processing Configuration Changes

AUTOMATED TECHNICAL FEEDBACK REPORT (TFBR)

The TFBR is a form used by Fleet personnel on both automated and non-automated ships to notify the RMC or the TYCOM, as applicable, on matters relating to PMS. You can find further instruction and submit a TFBR at the following website: <http://anchordesk.navy.mil/>. At the anchor desk website choose "Access the Portal" and choose "Submit a Deficiency Report " in the Tool Box section Planned Maintenance System (PMS) Technical Feedback Form. There are two categories of TFBRs.

1. Category A. Submitted directly to the RMC by the Ship's 3-M System Coordinator (copy to TYCOM) and pertains to the following:
 - a. The need for replacement of missing or mutilated Maintenance Index Pages (MIPs) and Maintenance Requirement Cards (MRCs).
 - b. Problems with identification of PMS required items listed on MRCs.
2. Category B. Submitted to the applicable TYCOM by the ship's 3-M System Coordinator and pertains to the following:
 - a. Discrepancies discovered in the PMS documentation.
 - b. Discrepancies discovered in design, maintainability, reliability, or operational deficiencies by systems or equipments, including comments about deficiencies in PMS support Test Equipment, Materials, Parts, and Tools (TEMPTs) and discrepancies in technical manuals or other documents.
 - c. TYCOM assistance in the clarification of 3-M instructions.

NAVSEAINST 4790.8B Section I, Chapter 1, provides detailed instructions for PMS.

ALLOWANCE CHANGE REQUEST (ACR)

In addition to reporting technical manual and APL deficiencies, interim revisions to allowances are sometimes required at other than scheduled allowance list publication dates in order for shipboard systems to be properly supported. Because of dynamic Fleet operating environments, allowances for both repair parts and equipments frequently require additional review and revision.

Actual failure rates may exceed those initially estimated varying operating conditions or different levels of support; mission assignments may require the approval of additional equipment or support systems and improved technology may offer additional capabilities. These and other circumstances dictate that requests for changes to allowances must be submitted when recognized and must be promptly reviewed by an appropriate authority.

The responsibility for initiating shipboard ACRs for non-demand based changes to allowances rests with the Commanding Officer. An ACR will be submitted to request a revision to an authorized published allowance list. An ACR is used to request changes to allowances of equipage or portable equipment such as Navigation Damage Control and other ship Work Center items normally identified in Part IIIB of the COSAL/Coordinated Shorebase Allowance List (COSBAL). ACRs are submitted to NSLC's Global Distance Support Center at <http://www.anchordesk.navy.mil>. At the anchor desk, choose "Access the Portal" and then choose "Submit a Deficiency Report" in the Tool Box section.

Calling the Global Distance Support Center

Phone: Within the continental US, dial 1-877-418-6824

From outside the continental US, dial DSN 510-428-6824

FLEET COSAL FEEDBACK REPORT (FCFBR) (NAVSUP 1371) and the
AUTOMATED COSAL IMPROVEMENT PROGRAM (ACIP)

The APL is another link in the chain that leads from part number, to equipment, to technical manual, and finally to the repair part support allowed in the COSAL. The user's ability to identify, interpret, and apply the APL cannot be overemphasized. One must be able to "tie" the technical manual, the maintenance philosophy, the physical equipment configuration and APL together. The APL document should properly define the equipment, its maintenance philosophy and it should contain all the parts necessary to complete authorized repair actions as documented in the technical manual. The FCFBR is a tool that allows Fleet maintenance personnel to request adjustments to an APL.

There are numerous reasons for APL deficiencies that cause the technical and supply personnel problems. Some of the most common are the following reasons:

1. Suspected error in code assignments (e.g., Source, Maintenance and Recoverability Codes (SM&R), Note Codes, etc.).
2. Non-allowed part required for PMS.
3. Part number in technical manual does not agree with the APL.
4. Allowed quantity insufficient for PMS requirements.
5. APL incomplete (e.g., missing characteristics data, technical manual number, etc.).
6. APL technical problem, such as incorrect Minimum Replacement Unit (MRU) assignment.
7. Incorrect part or item listed in APL or AEL.
8. SM&R Codes and Allowance Note Codes on the APL/AEL are not defined in any publication held on board.
9. Circuit Symbol Number in Electronics APL Section B crosses to incorrect reference number or stock number.

Many of the technical codes on an APL are assigned by machine on the basis of one time technical decisions. In some cases the codes may not be correct. The Navy cannot afford an engineering analysis of every part, in every application, on every ship. Therefore, if you believe the technical code for an individual part item or the overall maintenance policy reflected by all of the codes on an APL is wrong report it to the shore establishments. The ship (user) technician can best help the ship and others to obtain proper supply support by reporting the APL technical problem on a FCFBR.

Maintenance personnel should submit a FCFBR to report the following COSAL problems:

Key Problem

- (S) SM&R code changes
- (M) Technical manual inconsistencies/questions
- (U) Unit of Issue/MRU changes
- (P) PMS deficiencies
- (C) Component Characteristics File (CCF) changes - APL Header changes
- (D) Technical Drawing Additions/Changes
- (O) Other

The problems listed above can be reported using the FCFBR web form on the Anchor Desk/Distance Support Website (<http://www.anchordesk.navy.mil/fleetsupport/request.nsf/fcfr?openform>).

The FCFBR will be brought to the attention of the work center and supply support supervisor for review. If the problem cannot be solved locally, the FCFBR will preferably be submitted via the web form, or, if web access is not available, mailed to the Anchor Desk for action. When using a FCFBR for Material Handling Equipment (MHE) APLs, the United States Navy (USN) registration number must be used with the MHE APL number as follows, or the FCFBR will be returned to the originator, e.g.,

<u>APL</u>	<u>USN#</u>
950001727	1102971

FCFBRs received by the Anchor Desk will be screened for key codes and the required content. If the data is incomplete, the FCFBR will be returned to originator; otherwise, an interim response will be sent to the originator acknowledging receipt of the FCFBR. The FCFBRs will then be forwarded to the cognizant ISEA for review and action.

If the action taken results in an item being added to the APL and it computes for an allowance, it will be included in the NAVICP-M CIA and a pen and ink change to be made to the non-automated ship's copy of the COSAL. For ships with the ASI capability, an automated pen and ink change will be forwarded.

If the item added to the APL does not compute for an allowance it will be included on the NAVICP-M monthly report as an information item only. In other words, the item has been determined to be maintenance significant and is to be added to the APL for identification purposes but does not meet the criteria for allowance. For automated ships this information will be forwarded via the ASI process and maintained in the ship's files with an allowance quantity of zero.

NOTE: The FCFBR should not be used to address matters relating to the Nuclear Reactor Plant Classified COSAL ("Q" COSAL) or for FBMWS/SWS COSAL Supplements. The NAVSUP Form 1220, Allowance Change Request/Report, should be used to address "Q" COSALS and SSP Form 3100/1A TFR should be used for SSP equipments.

ACIP - The deficiency that is handled through ACIP and eliminates the need for submission of a FCFBR is if the part or item is not listed on the APL or AEL but is considered to be a "maintenance significant item". Historically, approximately 90% of the APL deficiencies occur because of the part required for maintenance is not listed on the APL or AEL. The ACIP was instituted to identify situations where a repair part that is required for maintenance is not listed on an APL or AEL. As part of the ACIP program NSLC collects all repair part consumption data reported into the Maintenance Data Collection (3-M) System. The supply source code recorded against each part issue record is then used to identify not carried repair parts. If the part was not carried onboard and not listed on an APL (as determined by screening the NIIN/APL information against the WSF) the information is forwarded to the ISEA responsible for maintaining the APL for review. The ISEA researches the NIIN and the system it is reported against for potential revision of the APL. Any changes are forwarded to NAVICP-M for processing and are included in the ASI/CIA to distribute the corrected APL data back to the Fleet. This method uses data readily available through the 3-M system to find "problems". ACIP effectively eliminates the need for a FCFBR in this situation and thereby significantly reduces the reporting burden placed upon Fleet maintenance personnel. More detailed information concerning the ACIP process can be found at the following website: <http://www.nslc.navsea.navy.mil/techlog/ACIP/ACIP.htm>.

ALLOWANCE CHANGE REQUEST-FIXED (ACR-F)

A fixed allowance is an authorized stock level for a DLR item approved for stockage on ships or shore activities. The range and depth of this authorized stock level is demand based. Between periodic revisions of the COSAL or COSBAL, afloat and shore activities, upon determining a fixed allowance is insufficient to meet requirements, may submit a request for revisions to increase or decrease allowances for DLRs by submitting an ACR-F. Approved single ship ACR-Fs are usually funded by the TYCOM. Approved class wide ACR-Fs are usually funded by Naval Sea Systems Command (NAVSEA) Technical Operation Budget (TOB). More information may be found in NAVICPINST 4440.450B. ACR-Fs for ships are submitted to NSLC's Global Distance Support Center at <http://www.anchordesk.navy.mil>. At the anchor desk, choose "Access the Portal" and then choose "Submit a Deficiency Report" in the Tool Box section.

ACR-Fs for Tender Load List (TLL)/ Operational Support Inventory Stock List (OSISL) shore activities are submitted directly to NAVICP-M Code 8543.

TECHNICAL MANUAL DEFICIENCY/EVALUATION REPORT (TMDER) NAVSEA 9086/10

The Technical Manual (TM) is the technician's primary logistics support document to show the repair procedures for all assemblies and component parts used on an equipment. The TM provides a description of the manufacturer's parts, the APL provides the Navy's supply system support, and the COSAL provides the ship's parts support.

Once a TM has been finalized, the user is the only source for identifying errors and omissions. The user must submit a TMDER to inform the NAVSEA Technical Manual Maintenance Activity (TMMA) that a problem exists with a TM.

The TM and APL are created from the manufacturer's provisioning documentation data. If there is an error in the TM, there may also be an error in the APL, and therefore, an error in the COSAL. TMDER can be submitted at <http://www.anchordesk.navy.mil>. At the anchor desk web site choose "Access the Portal" and then choose "Submit a Deficiency Report" in the Tool Box section.

All errors found in TMs should be reported. Some errors may be minor, and producing a change may not be cost effective based solely on a non-technical TMDER. However, all reported deficiencies would be considered whenever follow-on changes are developed.

NOTE: TMs will not be updated to add National Stock Numbers (NSNs). TMs are designed to identify the commercial replacement part descriptions and

manufacturer's part numbers. The Management List-Navy (ML-N) and the APL are the Navy's supply documents that provide NSNs.

Another type of TM problem that requires reporting from the ship is a configuration change to onboard equipment. A TM change should be provided with an equipment change. If a TM change is required with an equipment repair, replacement, or alteration but is not provided, complete a TMDER to advise NAVSEA that TM support is lacking.

NAVSEA also provides the ship with an Index of Technical Publications (ITP) to facilitate the identification of a TM to the equipment onboard. The ITP is tailored to the equipment configuration of a given ship. Just as an APL and COSAL are produced based on the WSF ship configuration, so is the ITP. The ITP is generated by matching the WSF ship configuration APL to the NAVSEA TM database APL. The appropriate TM is then selected to support the APL for that ship application. The TM information in the WSF is obtained from NAVSEA in the same way.

You can see that more than just ship's parts are dependent upon the accuracy of the WSF. It is important to the ship's TM support that equipment configuration feedback be provided as described in the chart on page 5-8. If a TM does not support the equipment configuration onboard, or if the TM to APL relationship is incorrect, advise NAVSEA by submitting a TMDER.

3. COSAL Related Correspondence. A variety of COSAL correspondence is directed to every ship. Some of the correspondence is associated with the supply department (e.g., TYCOM Class Allowance, Change reports, ship's ACRs, APL revisions) based on Fleet Casualty Report (CASREP)/3-M usage data. Other correspondence, which is less obvious but equally important to COSAL maintenance, is not associated generally with the supply department (e.g., Ordnance Alterations (ORDALTs), Ship Alterations (SHIPALTs), Special Project Alterations (SPALTs), Hardware Systems Command (HSC) letters). Commands should establish internal procedures to ensure that all correspondence that may have an impact on supply support is routed to the supply officer to ensure that COSAL changes, if appropriate, will be accomplished promptly. Such actions include, but are not limited to, changes in the following:

- a. Indices (annotated)
- b. Summary of APLs (annotated)
- c. APL (added/deleted)
- d. ISL (adjusted)
- e. Stock Record Cards (prepared, adjusted, or pulled)
- f. Deficiencies (requisitioned) and

g. Excesses (off loaded)

For ships equipped with SNAP computers, COSAL related correspondence is furnished via the ASI process.

4. Ship's COSAL Maintenance Instruction and Record. A ship's instruction should be prepared promulgating procedures for maintaining the ship's COSAL and COSAL maintenance records. A Check Off List and Log should be maintained to ensure a complete audit trail of all COSAL maintenance actions. Each change to any part of the COSAL should reference a COSAL maintenance action identification number. The file should be maintained in two sections, one for completed actions and one for outstanding actions.

5. Screening Requirements. A ship's COSAL is designed to support the majority of unscheduled corrective maintenance requirements and PMS requirements. Each issue request for a repair part that is not included in the COSAL should be examined closely. Once it has been verified that a requested item is Not Carried (NC) by the supply department (e.g., the item does not appear on the ISL and a stock record does not exist) examine the COSAL indices and APLs to ascertain whether or not the equipment itself is COSAL supported.

6. CASREP Requirement. When a repair part is identified as a "CASREP Requirement", the work center supervisor and supply support supervisor will perform the

"Screening Requirements." The following data will be verified:

DOWN EQUIPMENT	(Nomenclature, serial, etc.)
TECHNICAL MANUAL	(Type, model, serial, etc.)
PART REQUIRED	(Appears in TM)
NSN	(Appears in APL)
STOCK BATTERY AND ISL	(Appears in if NIS/NC)*
ML-N	(Verify NSN)
SM&R CODE	(Appears in APL)
APL NUMBER & NOMENCLATURE	

*Not In Stock (NIS) item: Give reason (e.g., issued on 7051 lost by inv., transferred, etc.).

*Not Carried (NC) item: Give reason (e.g., equipment not supported, source, maintenance code, etc.).

The above information will be utilized to fulfill the requirements of the CASREP Requirement message. See Figure 5-A-4. Reference Naval Warfare Publication NWP 1-03-1 (formerly NWP 10-1-10) for complete CASREP reporting instructions (available at <https://www.nko.navy.mil>).

P151744Z APR 89
 FM USS KITTY HAWK
 TO COMSECONDFLT
 CTG TWO ZERO PT TWO
 COMNAVAIRLANT NORFOLK VA
 NAVSSES PHILADELPHIA PA
 INFO AIG SIX EIGHT FOUR THREE
 NAVSEADDET NORFOLK VA
 NUSC NEWPORT RI
 COMSPAWARSSCOM WASHINGTON DC
 NAVSHIPWPNSYSENGSTA PORT HUENEME CA

BT

CONFIDENTIAL

- (1.) MSGID/CASREP/CV 63 KITTY HAWK/27//
- (2.) POSIT/4530N2-04645W9/151615ZAPR82//
- (3.) CASUALTY//INITIAL-82012/NO 1 OXYGEN ANAL/EIC:F300/CAT : 2//
- (4.) ESTIMATE/302359ZMAY82/RECEIPT OF PARTS NLT 28 MAY82//
- (5.) ASSIST/OTHER/PHILADELPHIA//
- (6.) AMPN/REQUEST ASSISTANCE FORM NAVSSES PHILA//
- (7.) PARTSID/APL:490002/-/JCN:NO3363-EB01-0802//
- (8.) TECHPUB/NAVSEA 0956-LP-023-810//
- (9.) 1 PARTS

/DL NATIONAL STOCK NO.	ROD	COSAL	ONBD	CIRCUIT
/01 9H5930-01-050-6624	001	000	000	-
/02 9H6630-01-049-0947	001	000	000	-//

- (10.) AMPN/REASON ITEM NOT ON BOARD-NO ALLOWANCE ALL PARTS LISTED IN PARTSID APL//

- (11.) 1STRIP

- | /DL DOCUMENT ID | QTY | PRI | RDD | ACTIVITY | REQN STATUS |
|----------------------|-----|-----|-----|----------|----------------|
| /01 V03363-0094-W400 | 001 | 05 | 149 | NNZ | 131601ZAPR82 |
| /02 V03363-0094-W401 | 001 | 05 | 149 | NNZ | 131601ZAPR82// |

- (12.) RMKS/ANALYZER FAILS TO GIVE ACCURATE CONTINUOUS READOUTS, CAUSING COMPLETE LOSS OF OXYGEN MONITORING CAPABILITY. CAUSES BELIEVED TO BE COMBINED ENVIRONMENT (HEAT AND HUMIDITY OF FIREROOMS) AND PARTS FAILURE. OXYGEN MONITORS HAVE NOT WORKED PROPERLY SINCE INSTALLATION DURING ROH 80. NAVSSES PROVIDED TECH ASSISTANCE IN JULY 1980. SHIP'S FORCE INSPECTION HAS NOW REVEALED HOLES IN BOTH TEFLON MEMBRANES.

SHIPS SCHEDULE: INPORT PHILADELPHIA 14 MAY-12 JUN. CONSIDER 28-30 MAY IDEAL TIME TO OBSERVE UNITS IN OPERATION DUT TO INTENDED LIGHTOFF 28 MAY IMAY.//

- (13.) DWNGRADE/DECL 30 NOV 82//

BT

Figure 5-A-4 Supply Requirement For CASREP Reporting

7. Processing a Configuration Add to the COSAL. For newly installed equipment or equipment that is on board but not supported in the COSAL, prepare a CCF (OPNAV 4790/CK) or an automated configuration change and take the following actions:

a. Validation.

(1) Equipment. The first step in processing an addition to the COSAL is validation. The ship must ensure the allowance document (APL/AEL) is validated against the actual installed equipment. Failure to perform the validation could result in the processing of the wrong APL/AEL and the ordering of incorrect parts support. See Figures 5-A-5 and 5-A-6 respectively.

(2) Components/Subcomponents. The second step is to validate the actual installed components/subcomponents against the basic APL. The interim APL, obtained from the General Distribution CD-ROM, is not tailored to each equipment on every ship. It will list components that are supported under their own APL that may be in your equipment. All components actually installed on the equipment must be validated against the components listed on the basic APL to ensure the correct components APLs will be processed. Therefore, when reporting the installation of a new equipment to NAVICP-M, the actual components installed in the equipment must also be reported in the same manner. The APLs provided with your new COSAL will reflect the actual installed components as reflected in the WSF. The same procedures must be followed in validating the subcomponents listed on the component APL.

NOTE: Insurance type items (those items that compute between .125 and .999 in a .50 FLSIP COSAL) are

identified by an asterisk in front of the quantity. Example: *01-Qty 1, * 02-Qty 2, * 99-Qty 99.

Demand based items are those items that compute to two or more. Demand based items do not show an asterisk in front of the allowance quantity.

b. APL Allowance Table. Determine the number of installed equipments so you can select the correct On Board Allowance Table column. See Figure 5-A-5.

c. Ship's Maintenance Capability. Refer to the column headed "MAINT" and process only those items having a quantity listed in the Allowance Table selected in the previous step that are within the maintenance capability of your ship as reflected in Figure 5-A-7. Use the following maintenance capability table to identify your items:

IF YOUR CAPABILITY IS	THEN YOU ARE AUTHORIZED ITEMS CODED
2	2 and O (Alpha O)
3	2, 3, and O
4	2, 3, 4, and O
5	2, 3, 4, 5, and O
6	2, 3, 4, 5, 6, and O
C	C
D	D, F, G, H, O, 2, 3, 4, 5, 6
F	F, G, O, 2, 3, 4, 5, 6
G	F, G, H, O, 2, 3, 4, 5, 6
H	G, H, O, 2, 3, 4, 5, 6
O (Alpha)	O, 2, 3, 4, 5, 6

Failure to process only those items within the ship's maintenance capability may result in receiving large bulky items that the ship cannot handle or store properly.

NOTE: The same procedure must be used when ordering items on a Direct Turnover (DTO) basis, or you may expend funds and receive items on board that are not within the ship's capability to replace in the equipment/component.

d. Identification of Allowance Deficiencies. After the "possible" adds have been identified, they will be checked against the Stock Record Form (Naval Supply Systems Command (NAVSUP) Form 1114), SNSL or ISL to determine if the "possibles" are actual allowance deficiencies. The following guidelines should be used in making the transition from "possible" to "actual" allowance changes:

<u>SITUATION</u>	<u>ACTION</u>
(1) * Item not previously allowed	Order the full quantity on the new APL.
(2) * Item already allowed in a quantity less than on the new APL**	Add the difference to the SNSL/ISL. Adjust the NAVSUP Form 1114 to reflect the new higher allowance. Order the difference between the old allowance and new allowance under the NAVSEA COSAL allotment.

(3) Item already allowed in a quantity equal to or greater than the new allowed quantity **

Allowance does not change. Add the new APL number to the SNSL/ISL.

* If the on-hand and/or on-order quantity exceeds the old allowance quantity, order the difference between the on-hand and/or on-order quantity and the new allowance.

** PMR items are identified with a Code "P" in the "ALL ITEM" column of the APL. If there are multiple APLs with PMR, insurance, and/or demand items, the quantities will be additive.

NEW EQUIPMENT INSTALLED

ALLOWANCE PARTS LISTS (APL)

THE NUMBER OF INSTALLED EQUIPMENTS
DETERMINES THE APPLICABLE COLUMN

EQUIPMENT COMPONENT NOMENCLATURE/CHARACTERISTICS				TECHICAL DOCUMENT NUMBER		MANUAL		IDENTIFICATION NO.		DATE		PAGE					
PUMP CTFGL 20GPM 20PSI 7300RPM MCC VLT						0947-214-9010		016021438		11-15-78		1					
CHARACTERISTICS				OBTAIN THE TECHNICAL MANUAL AND COMPARE WITH THE EQUIPMENT		PART SOURCE MAINT RECOVBLTY SUP NOTES		QTY IN ONE EQPT/COMP.		U/I		ON BOARD ALLOWANCE TABLE					
MFR-WARREN PUMP INC NAVCOM PLAN-518-5356953 MFR DWG-D9900403 MFR ID-I-S MOV-7 PATTERN NO-174 EQUIP SPEC-MILP17639C NSN- LAPL-01-011 CAPACITY-20GPM TOTAL DYNAMIC HEAD-25PSI SPEED-1775 POWER RATING-10.8HP IMPELLER DIA-7 1/8IN TYPE-1-SMMOV-7 MOUNTING-VERTICAL ROTATION-CW TYPE DRIVE-MOTOR FSCM-63857 1172												NUMBER OF EQUIPMENTS/COMPONENTS					
												1 2 3 4 5-8 9-20 21-50					
BK77 N12487C041A N18224 N199 PL999D0403PC25 PL999D043PC38 PL999D0403PC9 657C1267C041AXXX 65980372J028A 730A0033J047A 999D0403-41				63857 PACKING-PREFMD .9841D 63857 BUSHING 63857 RING-WTR SEAL 63857 KEY-IMPELLER 63857 SHIM 63857 SCREW-IMPELLER LOCK 63857 PACKING-PREFMD .3511D 63857 IMPELLER 63857 SLEEVE-SHAFT 63857 WASHER-IMPELLER 63857 PACKING MATERIAL-3-8 SQ		9Z 5330-00-196-5382 9Z 3120-00-501-9518 9C 4320-00-449-0784 9Z 5315-00-480-4169 9Z 5365-00-448-0008 9Z 5305-00-574-0345 9Z 5330-00-805-2966 9C 4320-00-466-7649 9C 4320-00-449-0974 9Z 5310-00-500-3014 9Z 5330-00-197-9654		1 PA 2Z Z 1 PA 2Z Z 1 PA 2Z Z 1 PA 2Z Z 1 PA 2Z Z 1 PB 2Z Z 1 PC 2Z Z 1 PA 2Z Z 1 PA 2Z Z 1 PA 2Z Z 1 PA 2Z Z		E E E		1 EA P 1 EA 1 EA 1 EA 2 EA 1 EA 1 EA P 1 EA 1 EA 1 EA 3 FT		1 2 3 4 7 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *02 4 4 8 14 *01 *01 *01 *01 *01 1 2 3 4 7 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *01 *03 6 6 6 12		15 36 3 6 3 6 *01 4 30 72 *01 4 15 36 *01 4 4 7 *01 4 21 42	
END																	
REFERENCE SYMBOL NO.		ITEM NAME		STOCK NUMBER		PART SOURCE MAINT RECOVBLTY SUP NOTES		QTY IN ONE EQPT/COMP.		U/I		1 2 3 4 5-8 9-20 21-50					
		FLSIP .25		ALLOWANCE PARTS LISTS (APL) PROVISIONING						016021438		11-15-78 1					
SHIP TYPE & HULL NO.		PAGE								IDENTIFICATION NO.		DATE PAGE					

Figure 5-A-5 Interim Allowance Parts List

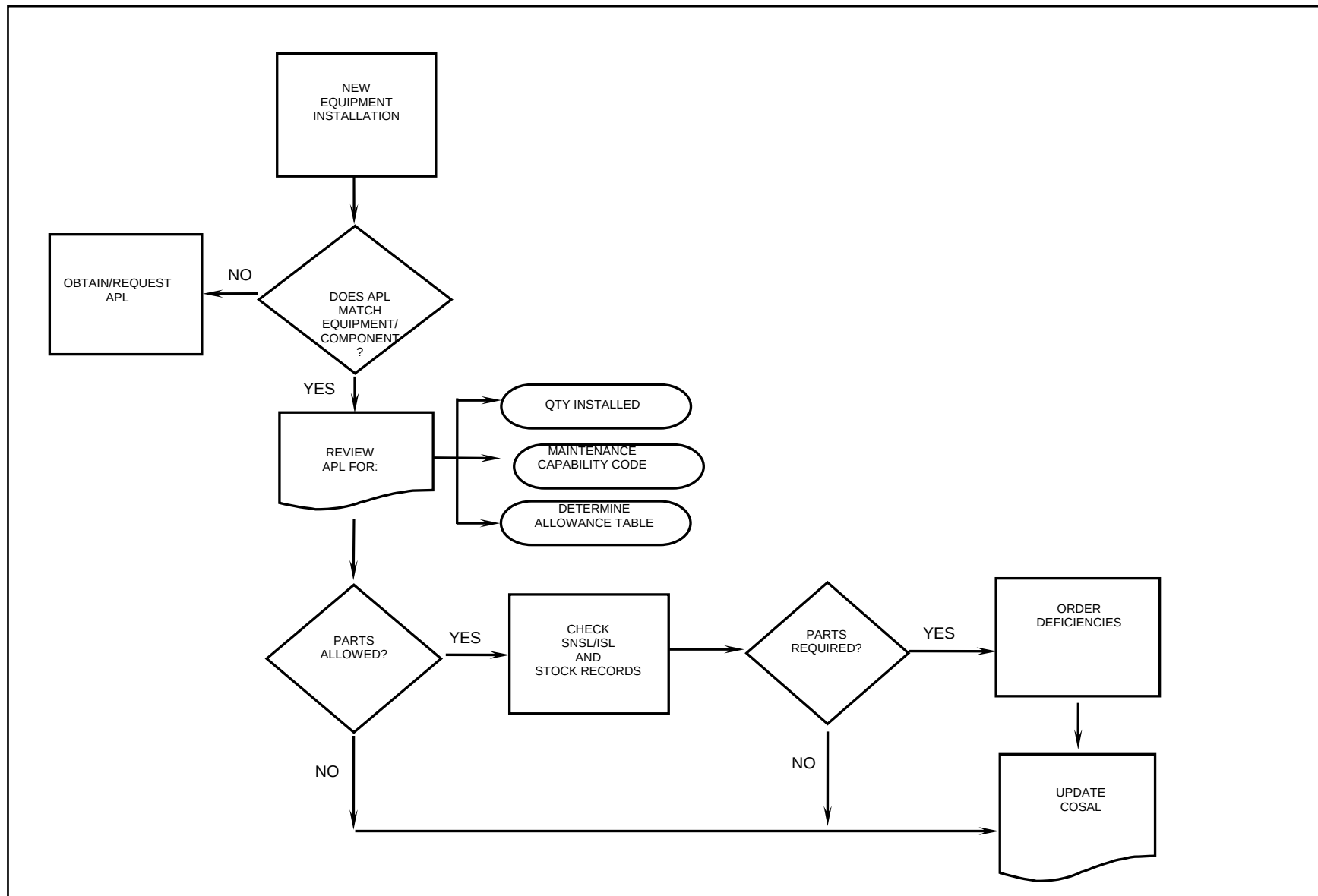


Figure 5-A-6 Logic Diagram for Processing an Interim Allowance Parts List

ACU	6	HNFFG	5	NR	3	TAK	4
AD	G	IDDG	5	P	5	TAKE	4
AFDL	2	ITSH	D	PC	2	TAKR	3
AFDM	2	IX	2	PCE	2	TAO	4
AGF	4	JADD	5	PCG	5	TAOE	4
AGSS	3	JADDG	5	PFG	5	TARC	G
AOE	4	JADDH	6	PG	2	TARS	2
APL	2	JADE	5	PGG	5	TATF	2
ARDM	2	JASHO	H	PGM	2	TC	G
ARS	2	L	4	PS8G	3	TRB	2
AS	G	LCC	4	PTFFG	5	TRF	3
ASDS	3	LCM	2	R	5	TRICCSMA	3
ASE	4	LCS	2	RAN	5	TWR	2
CG	5	LCU	2	SECT	2	VMMT	G
CV	6	LHA	6	SHOR	6	WHEC	5
CVN	6	LHD	6	SPSHO	D	WIX	2
D	5	LPD	4	SSBN	3	WLB	4
DD	5	LPH	5	SSGN	3	WLM	2
DDG	5	LSD	4	T APS	6	WMEC	5
DDH	5	LSM	4	T MPS	6	WPB	2
DE	5	LST	4	TACC	6	WSML	5
DEG	5	MAG	G	TAE	4	WTGB	2
E	5	MALS	G	TAFS	4	YC	2
EAGB	6	MCM	2	TAG	4	YDT	2
F	5	MHC	2	TAGDS	2	YFB	2
FF	5	MMC	2	TAGF	4	YFU	2
FFG	2	MMD	5	TAGM	4	YOG	2
FFH	5	MSC	2	TAGOR	4	YON	2
FGS	5	MSD	5	TAGOS	4	YP	2
FH	G	MSO	2	TAGS	4	YTB	2
FRR	5	MTS	3	TAH	4	YTT	2
HM	G						

Note: Small Boats are MCL 2.
Shorebased activities are MCL H.

Figure 5-A-7 Maintenance Capability Level Codes

8. Interim Repair Part. (IRP) Kits. Some new equipments are furnished, with IRP Kits, by the contractor to provide parts support until an APL is developed and allowances of parts are determined. Until that time, the supply officer should manage all repair parts according to inventory control procedures so usage data can be recorded and timely replacement of parts ensured. When the APL is received, the allowances are compared against the parts in the kit.

9. Ready Service Spares (RSS). RSS are identified on the APL and will be included as a Storeroom Item (SRI) if the NSN has a valid Storeroom Allowance. TYCOM policy specifies that RSS will be turned in to the Supply Officer for stockage as a SRI if a valid SRI allowance exists.

10. Maintenance Assistance Modules (MAM). A MAM is a replaceable assembly used to detect a faulty module through selective substitution. MAMs are available spares in all allowance computations. MAMs are to be returned to MAMs storage locations when replacement items are obtained. MAMs are ANC "N" on the APLs and in the COSAL Part III CF of the SNSL. ANC "N" may appear in Part III A as an SRI if usage warrants backup support.

11. Depot Level Repairables (DLR).

a. DLRs are repairable components that are managed within the supply system on the assumption that the unserviceable units (carcasses) will be expeditiously turned in for repair. When a replaceable unit is needed, turn

an unserviceable unit into the supply department (in the original container if possible) and the Storekeeper will sign an issue document NAVSUP 1250-1 or a DLR log maintained by the Repair Parts Petty Officer to acknowledge receipt. It is the supply department's responsibility to ensure the unserviceable unit is adequately packaged/protected and returned for repair and subsequent reissue.

b. DLRs are identified by the Material Control Code (MCC). For codes and definitions, see Appendix A of this manual.

SECTION B. COORDINATED SHIPBOARD ALLOWANCE LIST (COSAL) SUPPORT FOR AUTOMATED SHIPS

1. Shipboard Nontactical Automated Data Processing Program (SNAP) Overview	5-29
2. COSAL Type Codes	5-29
3. Maintenance	5-29
4. Automated Information System (AIS) Process	5-29

SECTION B. COORDINATED SHIPBOARD ALLOWANCE LIST (COSAL) SUPPORT FOR AUTOMATED SHIPS. This section provides guidance regarding the areas of COSAL support that are now automated. These automated COSAL functions are a result of implementing the Shipboard Nontactical Automated Data Processing Program (SNAP) system. The SNAP subsystems used in COSAL support are Supply and Financial Management (SFM) and Maintenance Data Subsystem (MDS). The functions of these two subsystems as they relate to COSAL support are discussed in this section. Specific details on how to perform automated COSAL support functions are provided in the SNAP II SFM On-Line User's Manual and the MDS On-Line User's Manual.

1. SNAP Overview. Logistic support for Navy ships is driven by the equipment known to currently be installed on board (configuration) and those planned for addition or replacement. The automated COSAL provides the ship with basic guidance for determining the range and depth of items which should be stocked by the supply department or held in the custody of other department heads. It is essential that any changes to configuration be incorporated promptly and that corrective action be taken when it is determined that any part of the automated COSAL is inaccurate or incomplete.

2. COSAL Type Codes. Activities normally maintain more than one COSAL type. These different COSAL types are identified by COSAL Type Codes. These COSAL Type Codes, their description and their relation to the manual COSAL sections are described below. The applicable COSAL Type Codes for SNAP II activities must be specified in the SFM Constants File. COSALs in Relational Supply System (R-SUPPLY) are referred to as Allowance Loads.

The applicable Allowance Loads for R-SUPPLY activities must be specified in the R-SUPPLY Constants File.

Automated COSAL Type	Description	Related COSAL or COSAL Section
HME/O=1 or C	Hull, Mechanical, Electrical, Ordnance and Electronic Maintenance	Part III, Section A
MAM=3	Assistance Modules	Part III, Section CF
Q-COSAL=2 OSI=8	Nuclear Operating Space Items	Reactor Plant COSAL Part III, Section B
SW=5	Strategic Weapons	Strategic Weapons COSAL
NW=6	Nuclear Weapons	Nuclear Weapons COSAL
BH=7	Boat Haven	Boat Haven COSAL

3. Maintenance. The automated SFM COSAL type codes are used to subdivide the Stock Record File (SRF) into the ship's COSAL. The applicable COSAL type codes for the ship must be specified in the SFM Constants file. Refer to the SFM On-Line User's Manual for details.

4. Automated Information Systems (AIS) Process. AIS have been designed to allow activities to automatically update their applicable portion of the Weapon Systems File (WSF). In order to maintain agreement between the activity's configuration data base and the WSF for timely and accurate logistic support, a closed loop system has been

developed for reporting and tracking configuration changes, and for the automatic processing of authorized external updates to the activity's COSAL and the Ships Equipment Files (SEF). This "closed loop" system, Ship Configuration and Logistics Support Information System (SCLSIS), begins with the normal Maintenance, Material and Management (3M) up-line reporting cycle. The normal 3M up-line reporting includes all configuration change transactions for adding or deleting equipment from the equipment file; making corrections to the equipment file; generating COSAL feedback reports; and requesting additional logistic support. This will ultimately include Planned Maintenance System (PMS) documentation, technical manual support, and allowance quantities for specific equipment(s). The success of this process naturally depends upon the reliable support of all shipboard maintenance personnel.

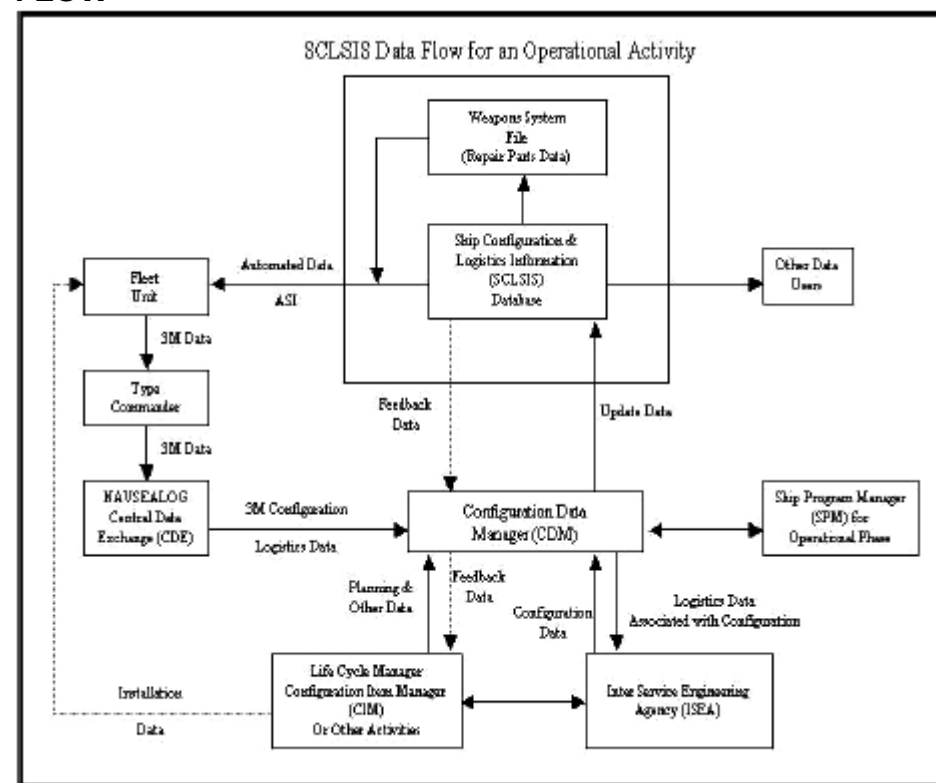
a. The following illustrates the SCLSIS data flow and Automated Shore Interface (ASI) process:

SCLSIS/ASI FLOW

DEPOT

AVAILABILITY

DATA



b. Data is put into SCLISIS using the 3M up-line reporting procedures. The data flow is from the ship to the Type Commander (TYCOM) and then to the Central Data Exchange (CDE) located at Naval Sea Logistics Center (NSLC). The CDE consolidates the configuration and logistics data and routes it to the appropriate Configuration Data Manager (CDM).

c. The CDM is solely responsible for the accuracy and maintenance of configuration data for a particular ship class. All configuration data entries into the WSF/Configuration Data Manager Database Open Architecture (CDMD-OA) databases are made by the CDM. The CDM conducts all necessary research on information submitted for database inclusion and then updates the CDMD-OA database as necessary.

d. As custodian of the CDMD-OA database, Naval Inventory Control Point-Mechanicsburg (NAVICP-M) processes transactions as directed by the CDM, calculates allowance changes and extracts related supply support information. All CDMD-OA database updates, whether initiated by the ship or the CDM, as well as provisioning changes to installed Allowance Parts Lists (APLs), will result

in generation of an output record being sent to the ship via the ASI process.

e. Once the activity downloads the ASI product from the RADWEB application, the 3M Coordinator and Leading Storekeeper must process the ASI.

f. Load and process the ASI in accordance with the directions contained in the Organizational Maintenance Management System - Next Generation (OMMS-NG) help screen.

COSAL/SNAP APPENDIX A
CODES AND DEFINITIONS

CODES AND DEFINITIONS			COSAL PARTS													
	DEN	SNAP FILE	PART I INDEX					PART II APL/AEL			PART III SNSL					
			A	B	C	D	E	A	B	C	A	B	CF	E	ISL	PAGE
Allowance Override Designator Code (AOR) ALL ITEM	C007B	COS						X								A-12
Allowance Note Code (ANC)	E006	COS						X	X	X	X	X	X		X	A-15
Allowance Support Code (ASC)		EQU	X	X												A-3
Allowance Parts List Category Numerical/Alphabetical HM&E/ORD		ALL														A-34
Allowance Parts List - Prefix/Suffix/Unique		ALL	X	X	X	X	X	X	X		X	X	X		X	A-13
Allowance Type Codes (AT)	E015	SRF													X	A-30
Application/Identification Number Activity Code (AINAC)	D029	EQU	X	X	X	X	X									A-4
COSAL Type Codes		SRF														A-31
Custody Code (CUST)		SRF								X	X	X	X		X	A-28
Demilitarization Code (DEMIL)	D017	SRF														A-30
Derivation Code (DERIV)		SRF									X	X	X			A-28
Logistic Support Status Code (LSSC)	D031	EQU	X	X				X		X						A-5
Material Control Code (MCC)	C003A	COS/SRF						X		X	X	X	X		X	A-18
Mission Criticality Code (MCC) Military Essentiality Code - PART MEC - EQPT/COMP MEC/MCC	C003Y C008E	EQU	X	X				X			X	X	X			A-2
Precious Metals Indicator Code	C411	SRF														A-29
Security Classification Code (SCC)	C017	SRF								X	X	X	X			A-26
Shelf Life Code (SL)	C028	SRF									X	X	X			A-21
Shelf Life Action Code (SLA)	C029	SRF									X	X	X			A-22
SM&R Source Code - first & second position	D012	COS						X	X	X						A-8
Use Maintenance Code - third position	D013A	COS						X	X	X						A-9
Repair Maintenance Code - fourth position	D013B	COS						X	X	X						A-10
Recoverability Code - fifth position	D013C	COS						X	X	X						A-11
Supplemental Source Code - sixth position	D012A	COS						X	X	X						A-12
Special Material Content Code (SMC)	D015	COS/SRF									X	X	X			A-25
Special Material Identification Code (SMIC)	C003B	COS/SRF						X		X	X	X	X		X	A-18
Technical Cognizance Code (TEC COG)	D044	EQU	X	X												A-4
Type of Storage Space Code (TSS)	C027	SRF									X	X	X	X		A-24
Unit of Issue (U/I)	C005	COS/SRF						X		X	X	X	X	X	X	A-32

A. CODES AND DEFINITIONS USED IN PART I, II, AND III OF THE COSAL

1. MILITARY ESSENTIALITY CODE (MEC)/MISSION CRITICALITY CODE (MCC)/PART MILITARY ESSENTIALITY CODE (PARTMEC)/ITEM MILITARY ESSENTIALITY CODE (IMEC).

a. TRIDENT CLASS SUBMARINES - The equipment/component MEC ranges from a low of 95 to a high of 116 and is factored in the computation of the COSAL Part III A SNSL quantities. A greater degree of support is provided for the higher MEC with the greatest being provided for MEC 116.

b. US NAVY SHIPS - The Navy's Item Mission Essentiality Coding system consists of a combination of MEC and MCC as follows:

PART I Sections A and B contain the MCC or the MEC depending on the ships computation method. For a MODFLSIP we display the MCC, for a FLSIP the MEC is displayed. However, both are displayed under the "Equip/Comp MEC" field. To follow are additional explanations with the applicable codes.

(1) The MEC appears in a FLSIP COSAL Part I Sections A & B under Equip/Comp MEC. The following MEC codes apply:

- V Vital: Failure of the equipment/component would result in degradation of mission.
- N Non-Vital: Failure of the equipment/component would not result in degradation of mission.

(2) The MCC appears in a MOD-FLSIP COSAL Part I Sections A & B under EQUIP/COMP MEC (Equipment/Component Military Essentiality Code). The following MCC codes apply: (DEN C003Y)

CODE DEFINITION

- 1 Failure of component/equipment causes minor mission impact.
- 2 Failure of component/equipment causes total loss or severe degradation of a secondary mission.
- 3 Failure of component/equipment causes severe degradation of a primary mission capability.
- 4 Failure of component/equipment causes total loss or severe degradation of mobility or primary mission (propulsion or life support).
- 5 The loss of this equipment results in a safety hazard to the ship or its crew.
- X Assigned to all Allowance Equipage Lists (AEL).

(3) The PART MILITARY ESSENTIALITY CODE appears in the COSAL Part II Section A under the column heading PART MEC. The following codes apply: (DEN C008E)

CODE **DEFINITION**

- | | |
|---|--|
| 1 | Failure of this part will render the end item inoperable. |
| 2 | FBM/TRIDENT: Major importance to component; part not installable. |
| 3 | Failure of this part will not render the end item inoperable. |
| 4 | FBM/TRIDENT: Minor importance to component; parts not installable. |
| 5 | Required for personal safety. An "S" safety override may be assigned in the WSF for allowance computation. |
| 7 | Required to prevent impairment or temporary reduction of operational effectiveness of the end item. |

(4) ITEM MISSION ESSENTIALITY CODE
(IMEC) Computer Assigned (DEN C008F)

- | | |
|--------|--|
| IMEC 1 | Minor Mission Impact |
| IMEC 2 | Loss of a Secondary Mission Capability |
| IMEC 3 | Severe Degradation of a Primary Mission Capability |
| IMEC 4 | Loss of a Primary Mission Capability |
| IMEC 5 | Safety |

IMEC CONVERSION TABLE RULES

PART MEC		EQUIPMENT/COMPONENT MCC		IMEC
5	+	ANY	=	5
1	+	4	=	4
1	+	3	=	3
1	+	2	=	2
1	+	1	=	1
7	+	4	=	3
7	+	3	=	2
7	+	2	=	1
7	+	1	=	1
3	+	ANY	=	1

(5) MILITARY ESSENTIALITY (MIL ESS) appears in COSAL Part IIIA and includes the MCC or MEC from Part I and the Part MEC from Part II. (See (2) and (3) above for code definitions).

2. Notes reserved for future COSAL use.

3. ALLOWANCE SUPPORT CODE (ASC). The collective title given to three separate but related codes used to record information concerning an equipment or component. These three codes are TEC COG, AINAC, and LSSC and are described below. (This five-position alphanumeric Code will appear in Part 1, Indexes A & B).

a. TECHNICAL COGNIZANCE CODE (TEC COG).

The first position of the ASC specifies the office, activity, command, military service, or agency to which questions regarding the design, performance, modification, operation, or repair of an equipment or component should be directed. (DEN D044)

ASC First Position – TEC COG

<u>CODE</u>	<u>DEFINITION</u>
A	Fleet Hospital Support Office
B	Naval Inventory Control Point-Mechanicsburg
C	Naval Inventory Control Point-Philadelphia
D	Naval Air Systems Command
E	Space and Naval Warfare System Command
F	Naval Facilities Engineering Command
G	Naval Supply Systems Command (Materials Handling Equipment)
H	Naval Sea Systems Command (Hull, Mechanical, and Electrical)
J	Naval Sea Systems Command (Electronics)
K	Naval Sea Systems Command Nuclear Reactor Plant (NRP)
L	Naval Sea Systems Command (Ordnance except Ship Missile Systems (SMS))
M	Naval Sea Systems Command (SMS Ordnance)
N	Bureau of Naval Personnel
P	Bureau of Medicine and Surgery
Q	Special Projects Office
R	Anti-Submarine Warfare Project Office
S	Military Sealift Command (MSC)

CODE **DEFINITION**

T	Naval Training Device Center
U	Pacific Missile Range (Headquarters)
V	Naval Oceanographic Office
X	Naval Sea Systems Command (Search Radars)
Z	Foreign Military Sales
1	U.S. Army
2	U.S. Army Munitions Command
3	U.S. Army Signal Corps
4	U.S. Army Electronics Command
5	U.S. Air Force
6	U.S. Marine Corps
7	Defense Atomic Support Agency (Field Command)
8	U.S. Coast Guard
9	Federal Aviation Agency

b. APPLICATION IDENTIFICATION NUMBER
ACTIVITY CODE (AINAC). The second and third characters of the ASC specify the activity responsible for the supply management control or program support for the equipment, component, or item of supply (second position), and the type of identification number to which it is related (third position). (DEN D029)

ASC Second Position - AINAC**CODE** **DEFINITION**

E	Naval Inventory Control Point (Electronics)
S	Naval Inventory Control Point (Hull, Mechanical, Electrical, and Ordnance)

ASC Third Position – AINAC

<u>CODE</u>	<u>DEFINITION</u>
P	Allowance Parts List (APL)
Q	Allowance Equipage List (AEL)
S	ORDALT, SPALT, SHIPALT, FC, ECP, and other equipment modifications
T	Allowance Parts List (APL) for NAVICP-P items
X	Indicates supersession

c. LOGISTIC SUPPORT STATUS CODE (LSSC).
The fourth and fifth positions of the ASC indicating the type and degree of support required as well as the method of support rendered. (DEN D031)

ASC Fourth Position - LSSC

<u>CODE</u>	<u>DEFINITION</u>
A	Full Support: Provide equipment with full supply systems support for indefinite period of time. Ensure this support is consistent with the HSC approved Plan for Maintenance, i.e. corrective/planned.
B	Early Supply Support: Provide equipment with supply support for a specified period of time that usually terminates in Full Support. The Program Support Inventory Control Point will manage the supply support program and maintain records but shall rely on the equipment contractors to provide the unique spares/repair parts required to support the HSC's approved Plan for Maintenance.

CODE **DEFINITION**

C	Partial Support: Provide equipment with restricted supply support as indicated by the second position of the Logistics Support Status Code.
E	Contractor Support: Provide equipment with contractor (may be the Hardware Systems Command) supply support for a specified period of time. The cognizant program manager/technical office shall specify the level of support required, and the contract specifications will define it.
F	No Support: Supply support is not provided for this equipment for the reason indicated by the second position of the Logistics Support Status Code.
G	Dependent Support: This is an equipment that has variable combinations of individually supported units/components therein. The type of support for this equipment is dependent upon the support being provided for the individual lower units/components that apply to a specific configuration. Refer to the Allowance Support Code assigned to the units/components that apply.
L	Limited APL Method: The available APL for this equipment was developed from incomplete data. The APL has been determined to provide adequate support as a result of a review of Fleet COSAL Feedback Reports (FCFBRs) and 3-M data.

ASC Fourth Position – LSSC (Con't)

<u>CODE</u>	<u>DEFINITION</u>
M	Support Not Determined: The type and degree of supply support to be provided for this equipment has not been determined. The HSC shall resolve support responsibility with the Program Support Inventory Control Point.

ASC Fifth Position - LSSC

<u>CODE</u>	<u>DEFINITION</u>
A	APL/AEL/SNSL Method: An Allowance Parts List (APL), Preliminary Allowance List (PAL) or Allowance Equipage List (AEL) is available for this equipment, and allowed spares/repair parts are included in the SNSL.
C	Parent Equipment Method: This is a component in an equipment family or system. The Allowance Parts List for the parent equipment or system incorporates the spare/repair parts for this component.
D	Local Support Method: No allowance of on board spares/repair parts for this equipment in the SNSL. Some repair parts may be on board due to identical parts in other equipments installed on board. Support this equipment with parts already in the supply system or from special repair facilities or by local procurement when required and if equipment is not expendable.

<u>CODE</u>	<u>DEFINITION</u>
E	No Support: Supply support is not provided inasmuch as this equipment no longer fills an operational requirement, is obsolete/ obsolescent, or is expendable.
F	Package Support Method: Support is limited to sets of equipment repair parts selected by the equipment contractor or HSC. These repair part sets shall not be broken down or integrated with shipboard or activity allowance without HSC approval. Replacement parts will be shipped only on a demand basis.
G	No Support: Supply support is not required. Records on this equipment are maintained only for configuration accounting purposes.
H	Limited APL Method: The available APL for this equipment was prepared from incomplete data and the resultant Stock Number Sequence List (SNSL) support may be deficient. Consult technical manual and requisition additional parts on demand basis. Do not certify Provisioning Technical Documentation (PTD) to an APL with this code assigned as new provisioning data is required by the Program Support Inventory Control Point.
L	Limited APL Method: The available APL for this equipment was developed from incomplete data. Statements of Prior Submission (SPSs) cannot be submitted/approved against APLs with this code assigned. A complete Provisioning Technical Documentation (PTD) package is required. An SPS with differences (changes) may be submitted upon concurrence from the Technical Support Activity (TSA).

ASC Fifth Position – LSSC (Con't):**CODE DEFINITION**

- P* New APL Method: A new APL is in preparation and will be forwarded upon publication. Prior to receipt of the APL, use the Allowance Appendix Document (AAD) or technical manual to determine required spares/repair parts. Upon receipt of the APL, check listing of allowed parts against the Stock Number Sequence List (SNSL) and requisition required additional parts per applicable instructions from the Inventory Control Point.
- Q* Interim Method: An APL is required to provide the specific type and degree of support; however data for preparation of the APL is not yet available. Prior to receipt of the APL, use the Allowance Appendix Package or technical manual to determine required spares/repair parts. Upon receipt of the APL, check listing of allowed parts against the Stock Number Sequence List and requisition required additional parts per applicable instructions from the Inventory Control Point.
- S Unique Configuration Method: An APL is available for this equipment and allowed spares/repair parts are included in the SNSL. This APL represents a unique configuration within a specific model series and/or end item identification number. Statements of Prior Submission (SPS) cannot be submitted/approved against APLs with this code assigned. A complete Provisioning Technical Documentation (PTD) package is required. A SPS with differences (changes) may be submitted upon concurrence from the Technical Support Activity.

CODE DEFINITION

- U Unit Method: This is an equipment which has variable combinations of individually supported units/components installed therein. Refer to the Allowance Support Code assigned to the lower units/ components that apply to a specific configuration of this equipment.
- X Only used for X-RICS.
- Z Automated Supply System Terminal/Obsolete APL: All NSNs supporting the APL for this equipment have been deleted through automated NSN cancellation and the resultant supply system support is deficient. Consult technical manual or equipment drawing(s) and requisition part(s) in accordance with standard requisitioning procedures. Statements of Prior Submission (SPS) shall not be approved to an APL with this code assigned.

*NOTE: Supervisors of Shipbuilding and Shipyards, check with Naval Inventory Control Point-Mechanicsburg to determine when APLs will be published. If APLs will not be available in time to meet ship deliver date, NSA will prepare an Allowance Appendix Page (AAP) as interim support documentation.

4. SOURCE, MAINTENANCE, AND RECOVERABILITY (SM&R) CODES. The six-position Source, Maintenance, and Recoverability Codes are applied by the allowance preparing activity.

a. SOURCE CODES appear on APL/AELs and will consist of two digits entered in the first and second positions of the SM&R code indicating the manner of acquiring support items for maintenance, repair, or overhaul of items. Specifically, these codes indicate whether the part is to be procured on demand and carried in the supply system, manufactured, obtained from salvage, or assembled with component parts. They also indicate if the part is not to be replaced due to the practicality of installation of the next higher assembly or impracticality of replacement. Failure or damage of the part indicates a requirement for complete overhaul or scrapping of the assembly or equipment. (DEN D012)

SM&R First & Second Position - Source Code

CODE **DEFINITION**

AD	Item assembled at depot maintenance levels.
AF	Item assembled at intermediate maintenance level. (Afloat Only)
AG	Item assembled at both afloat or ashore intermediate maintenance levels.
AH	Item assembled at intermediate maintenance level. Ashore Only.
AL	Item assembled at a specialized intermediate repair activity (e.g., item requires specialized tests and fixtures to ensure proper assembly).
AO	Item assembled at organizational maintenance level.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
KD	Item contained in a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.

CODE

DEFINITION

KF	Item contained in a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
MD	Item manufactured or fabricated at depot maintenance level.
MF	Item manufactured or fabricated at intermediate maintenance levels. (Afloat only)
MG	Item manufactured or fabricated at both afloat and ashore intermediate maintenance levels.
MH	Item manufactured or fabricated at intermediate maintenance levels. (Ashore Only)
ML	Item manufactured at a specialized repair facility (e.g., environmental considerations).
MO	Item manufactured or fabricated at organizational level.
PA	Item is procured and stocked for anticipated or known usage. Items are normally considered for replenishment that are not deteriorative in nature.
PB	Item procured and stocked for insurance purposes because essentiality dictates a minimum quantity to be available in the supply system.
PC	Items procured and stocked and would otherwise be coded PA except that it is deteriorative in nature. Includes repair kits that contain deteriorative repair parts.

SM&R First & Second Position - Source Code (Con't)

<u>CODE</u>	<u>DEFINITION</u>
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities. Not subject to automatic replenishment.
PF	Support Equipment that will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment, which because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time. (The use of this code will have limited application in the Navy.)
PH	Item procured and stocked and has been identified as containing hazardous material. Item requires recordation in the Hazardous Material Information System (HMIS) and a Material Safety Data Sheet.
PR	End item and/or support item, terminal or obsolete and replaced. No longer authorized for procurement. On hand assets may be issued until exhausted; then use replacement item.
PZ	Item is terminal or obsolete with no replacement; discontinue use.

CODE **DEFINITION**

XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition, (may result in direction to procure locally).
XC	Installation drawing, diagram, instruction sheet, field service drawing, identified by manufacturers' part number and not stocked in the Supply System.
XD	Support item with low mortality rate, not stocked. Local purchase or requisition through normal supply channels using CAGE code and reference number. Not obtainable from salvage/cannibalization.

b. MAINTENANCE CODES are assigned to indicate the levels of maintenance authorized to use, remove, replace or repair end items and support items. They are entered in the 3rd and 4th positions of the SM&R Code with the 3rd position indicating the lowest maintenance level authorized to remove, replace, and use the support item; the 4th position indicates whether the item is to be repaired and identifies the lowest maintenance level with capability to perform complete repair. (DENs D013A and D013B)

SM&R Third Position – Use Maintenance Code

<u>CODE</u>	<u>DEFINITION</u>
O (Alpha)	Item removed, replaced, used at the organizational maintenance level. Its phases normally consist of inspecting, servicing, lubricating, adjusting, and replacing parts, minor assemblies, and sub-assemblies.

SM&R Third Position - Use Maintenance Code (Con't)**CODE DEFINITION**

O (Alpha) (con't)	To distinguish between the organizational maintenance capabilities on different classes of ships the following codes may be used intra-Navy only. On joint programs, Navy will receive and transmit an O to indicate organizational maintenance level.
	2 - Minesweeper, Yardcraft, Patrol Boat
	3 - Submarines
	4 – Auxiliary/Amphibious Ships
	5 - Minor Combatant (Destroyer, Frigate)
	6 - Major Combatant (Carrier, Cruiser)
D	Item removed, replaced, used at depot maintenance level only. (USN Aviation Depots, Avionics and Ordnance Facilities and Shipyards)
F	Item removed, replaced, used at the intermediate maintenance level. USN Afloat.
G	Item removed, replaced, used at both afloat and ashore intermediate maintenance level. (Navy only)
H	Item removed, replaced, used at the following intermediate maintenance levels. (Ashore only)
K	Item removed, replaced or used at contractor facility.
L	Item used, removed, and replaced at specialized Intermediate Maintenance Activities (IMA) only. Specialized IMA sites have unique maintenance capabilities.

CODE DEFINITION

Z	Item not authorized to be removed or replaced at any maintenance level. This code is assigned to items not required for support in a specific application and is identified for reference purposes only (Navy use only)
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SM&R Fourth Position - Repair Maintenance Code**CODE DEFINITION**

O	Lowest maintenance level capable of complete repair of the support item is the organizational maintenance level.
	To distinguish between the organizational maintenance capabilities on different classes of ships the following codes may be used intra Navy only. On joint programs, navy will receive and transmit an O to indicate organizational maintenance level.
	2 - Minesweeper, Yardcraft, Patrol Boat
	3 - Submarines
	4 – Auxiliary/Amphibious Ships
	5 - Minor Combatant (Destroyer, Frigate)
	6 - Major Combatant (Carrier, Cruiser)
B	No repair is authorized. Item may be reconditioned by adjusting, lubricating, etc., at the user level. No Parts or special tools are procured for the maintenance of this item.
D	Lowest maintenance level capable of complete repair of the item at the depot maintenance level. USN Aviation Depots, Avionics and Ordnance Facilities and Shipyards.

SM&R Fourth Position - Repair Maintenance Code (Con't)

<u>CODE</u>	<u>DEFINITION</u>
F	Lowest maintenance level capable of complete repair of the support item at the intermediate maintenance level. (Afloat only)
G	Both afloat and ashore intermediate levels are capable of complete repair of the support item. Navy only.
H	Lowest maintenance level capable of complete repair of the support item at the intermediate maintenance level. (Ashore only)
K	Complete repair capability exists at a designated contractor facility.
L	Repair is restricted to specialized IMA sites due to the unique repair capability.
Z	Non-Repairable. No repair is authorized.

c. RECOVERABILITY CODES are assigned to indicate the disposition for unserviceable items. In accordance with the Progressive Maintenance Concept of this position of the SM&R Code may also indicate the lowest level of maintenance authorized to return the item to serviceable condition from all failure modes. Recoverability Codes are entered in the fifth position of the SM&R Code format as follows: (DEN D013C)

SM&R Fifth Position - Recoverability Code

<u>CODE</u>	<u>DEFINITION</u>
A	Non-repairable. Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value critical material). Refer to appropriate manuals/directives for specific instructions.
D	Repairable. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot maintenance level.
F	Field Level Repairable (FLR). When beyond economical repair, condemn and dispose at intermediate maintenance level. (Afloat only)
G	FLR. When beyond economical repair, condemn and dispose at either afloat or ashore intermediate maintenance levels (Navy only)
H	FLR. When beyond economical repair, condemn and dispose at the ashore intermediate maintenance levels.
K	Repairable - Navy DLR. Condemnation and disposal to be performed at contractor facility.
L	FLR. Repair, condemnation and disposal authorized at a Specialized IMA Repair Activity.
O	FLR. When beyond economical repair, condemn and dispose of at organizational maintenance level (Navy DLR only)
Z	Non-repairable. When item becomes unserviceable, condemn and dispose of at authorized level.

d. SUPPLEMENTAL SOURCE CODES are assigned to the Service's logistics community/operating forces. Each service uses the code to disseminate specific instructions that add to that service's internal logistics practices. Supplemental Source Codes are entered in the sixth position of the SM&R Code format as follows: (DEN D012A)

SM&R Sixth Position - Supplemental Source Code

<u>CODE</u>	<u>DEFINITION</u>
1	Engine intermediate maintenance level - First Degree
2	Engine intermediate maintenance level - Second Degree
3	Engine intermediate maintenance level - Third Degree
6	PA source coded item, that is normally procured commercially, but organic capability exists to manufacture (source code M series) for emergency stop gap requirements. Organic sources should be reviewed when commercial sources cannot meet demand.
8	Inter-service depot non-consumable item that is repairable by second-degree engine intermediate maintenance level.
9	Inter-service depot non-consumable item that is repairable by third degree engine intermediate maintenance level.
E	Items that are removed by the organizational maintenance level with no I level repair authorized; however, the intermediate maintenance level must perform end-to-end test to verify failure prior to final disposition (Beyond Capability of Maintenance).

SM&R Sixth Position - Supplemental Source Code (Con't)

<u>CODE</u>	<u>DEFINITION</u>
J	Inter-service DLR considered completely repairable below the depot maintenance level.
P	Item is under a progressive maintenance review. (Item will be coded O in the fourth position and D in the fifth position). P (sixth position) will then indicate intermediate is authorized between O and D levels. In the unlikely event two different service option codes apply to the same item the progressive maintenance code P will take precedence.
R	Gold Disc repair capability has been developed at the organizational and/or intermediate maintenance levels. Repair must be performed in a certified Module Test and Repair Facility.
T	PD source coded item that has peculiar application to training devices.

5. **ALLOWANCE OVERRIDE DESIGNATOR CODES.**
Allowance Override Designator Codes identify an allowance or technical override for a particular item and are used in computing allowances for ships. (DEN C007B)

Allowance Override Designator Codes

<u>CODE</u>	<u>DEFINITION</u>
A	Availability Centered Inventory Model (ACIM)
C	Critical candidate for consideration for higher echelon support. Code "C" is a System Stock override only.

Allowance Override Designator Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
D	Technical Override reviewed by Hardware System Command and disapproved
E	Allowance override applicable to Miniature/Microminature/Modular Test and Repair (2M/MTR) and Naval Facility Equipment APL support only
F	C-4 CASREP could result (this code is no longer being assigned)
M	Approved TOR Mission Override
P	Planned Maintenance Requirement
R	Requisition As Required (AR)
S	Safety Requirement
T	Technical Override (TOR). Not used in computation.
V	Disapproved TOR
Y	Availability Centered Inventory Model (ACIM) underide requirement.
Z	No Allowed Quantity will be computed
#	Application Replacement Factor (ARF) or Ship Class Replacement Factor (SCRF)
-	SNSL decrease due to a SHIPALT, ORDALT, or Engineering Change (EC) accomplishment

6. **APL PREFIX CODES.**

<u>PREFIX</u>	<u>DEFINITION</u>
AZ	MK41 VLS/MK45 Gun Mount ANZAC Unique (Australia-New Zealand)

<u>PREFIX</u>	<u>DEFINITION</u>
BTK	Turkey Unique
BTW	Taiwan Unique
EH	HM&E Electronics
GE	MK41 VLS German Unique
JA	MK41 VLS Japan
KA	Korea Unique
L	LSD – 41 Class
M	Military Sealift Command (MSC)-APLs for full NAVY support.
MA	LHA-1 Class
MB	DD-963/DDG-993 Class
MC	CG-47 Class
ME	Operational Availability (A _O) Model
MES	F100 Class (Aegis-Spanish)
MG	LHD-1 Class
MJ	Oceanographic Program
MK	All Submarine Unique
N	MSC Military Sealift Command (MSC) APLs built for MSC purposes only for configuration not supported.
NE	MK41 VLS Netherland Unique
P	Submarine and non-submarine unique (HOE COSAL) MHC-51 class unique APLs.
Q	MHC - 51 class unique (Electronic)
RCR	Local stock numbers w/sufficient Navy demand to merit centralized management and require NSN assignment
S	Saudi Naval Expansion Program (SNEP) PCG-51-1/PCG-612 Class
SP	Spanish Unique

APL Prefix Codes (Con't)

<u>PREFIX</u>	<u>DEFINITION</u>
SN	MK41 VLS Spain Unique
SW	Tactical Software
T	Trident Class
U	NAVAIR HM&E APLs (Also CVN 68 Class Catapult System)
VA	LPD 17 Equipment
W	Submarine and non-submarine unique
WEP	2J Cog Items
X	Configuration Data Manager (CDM) Pseudo RICs
YA	CBM Condition Based Maintenance (LPD-17)
Z	NAVICP Pseudo RIC
OR	ORDALT (Ordnance) RICs
OE	TOMAHAWK NSWC-PHD ECPs

7. UNIQUE HM&E APL NUMBERS.

<u>CODE</u>	<u>DESIGNATION</u>
A & B (3rd position of APL number)	New Automated APL Designator
A-Z (6th position of APL number)	HM&E, ECPs, MACHALTS (Less Marine Gas Engine APLs)
C (3rd position of APL Number)	Configuration RIC

NOTE: Alpha Codes A-Z indicate modifications to equipment and depending on the structure of APL numbers, indicate types of modifications.

HM&E Level 1, SUBSAFE Standard APL Matrices**I Valves (88 cat) (Except special purpose valves)**

If 3rd digit is 2,3, 9, A, or B valve is standard

If 3rd digit is 7, valve is Level I

If 3rd digit is 4, valve is SUBSAFE

If 3rd digit is 5, valve is Nuclear

II Special Purpose Valves (88 cat)

If 3rd digit is 6 and 6th digit is 7, valve is Level I

If 3rd digit is 6 and 6th digit is 5, valve is SUBSAFE

III Equipment Other Than Valves (other than 88 cat)

If 6th digit is other than 5 or 7, equipment is standard

If 6th digit is 7, equipment is Level I

If 6th digit is 5, equipment is SUBSAFE

If 6th digit is 8, equipment is NR 1 Unique

8. APL SUFFIX CODES.

<u>SUFFIX</u>	<u>DEFINITION</u>
A	LHD Class
B	Underway Replenishment Equipment
C	Underway Replenishment Equipment
D	Underway Replenishment Equipment
E	FFG-7 Class
F	U.S. Coast Guard Unique APLs
G	SUBASE Bangor
I	NAVFAC unique
L	LSA - Prepared APLs

APL Suffix Codes (Con't)

<u>SUFFIX</u>	<u>DEFINITION</u>
M	MHC-51 and MCM Class Unique APLs and AELs (Non-electronic)
N	Nuclear Reactor Program (NRP) equipment outside Nuclear boundaries
R	Non-Nuclear reactor fill Support Equipment for CVN-68 Class.
S	Oxygen/Oxygen Nitrogen Producer Systems
U	Condition Based Maintenance
V	LPD-17 Unique
X	Nuclear Reactor Programs (NRP) Boundary Equipment
Y	Dry Deck Shelter
Z	1200 PSI lb. Boiler Equipment
CA-CZ Series	Allowance Component List (ACL). An 8-digit electronic RIC with a suffix of CA-CZ is an ACL. The common practice is to assign the initial basic 8-digit RIC for an ACL with the suffix of 'CL'. Any subsequent equipment having the same components and the same basic 8-digit RIC will be assigned a suffix code in the range of CA-CZ (excluding CL). The individual components for the equipment listed in the ACL have separate APLs. All installed components must be reported to obtain COSAL support.
FA-MZ Series	Family APL. Indicates this nomenclature applies to a component of a larger equipment or system that is supported by the parent APL.

APL Suffix Codes (Con't)

<u>SUFFIX</u>	<u>DEFINITION</u>
GA-GZ	Family Suffixes
HA-HZ	Family Suffixes
IA-IZ	Family Suffixes
JA-JZ	Family Suffixes
KA-KZ	Family Suffixes
LA-LZ	Family Suffixes
MA-MZ	Family Suffixes
NA	No APL. Indicates no support document is required for this equipment because it should be locally or demand supported.
PA-RZ Series	Preferred APL. Indicates that although this nomenclature has been reported to NAVICP-M, the equipment is supported by the basic APL number (8-digit). Other variations of the nomenclature supported by the same APL will be coded PB, PC....
SA-SZ	Preferred Suffixes
TA-TZ	Preferred Suffixes
UA-UZ	Preferred Suffixes

9. ALLOWANCE NOTE CODES (ANC) Used in Part II A, B, and C and Part III of the COSAL. (DEN E006)

<u>CODE</u>	<u>DEFINITION</u>
1	Indicates an Operating Space Item (OSI) regardless of vessel type. The SNSL reflects a quantity for each application. Add for total on board allowance quantity. (Used on AELs)
2	Refer to APL or AEL to determine if the Repair Part is required (since exceptions are annotated on the APL/AEL when the Repair Part may not

ANC (Con't)

<u>CODE</u>	<u>DEFINITION</u>
2 (con't)	be required) or where a choice must be made to select the correct Repair Part.
3	Represents the superseding Repair Part due to redesign or material change. The superseded stock number appears as alternate information in Part III, Section D. The superseded item, presently on board, can be used without adverse effect to the component. If the superseded item is presently on board utilize the stock under the superseded number before ordering deficiencies.
4	An item with an NSN for bulk material that is to be used in the fabrication of the item listed in the parts list. Requisition as required.
5	Denotes CLASSIFIED PART and should be requisitioned and stored in accordance with current security regulations.
6	A Ready Service Spare (RSS) is identified on the APL and will be included as a Storeroom Item (SRI) if the item has a valid Storeroom allowance. TYCOM policy directs work centers to turn in RSS to the Supply Officer for stockage as an SRI if a valid SRI allowance exists. Part III Section CR of the SNSL was deleted from COSAL production as of 15 Feb 1993.
7	Denotes an item that is to be requisitioned and stowed in accordance with NAVSEA Instruction 09670.58D (Confidential) and its amendments. This note applies to operating frequency control crystals allowance.

ANC (Con't)

<u>CODE</u>	<u>DEFINITION</u>
8	Accessory component(s) applicable to a parent equipment. Computer-assigned.
9	Item/Part for which only the Commanding Officer, or his designated representative, is specifically responsible for the physical custody and safekeeping thereof.
A	Represents an item that has been coded to deviate from the NORMAL MAINTENANCE POLICY expressed by the Lead APL. The responsible HSC authorizing this deviation will be annotated in the characteristic portion of the APLs.
B	Only parts used to modify this equipment are listed in this APL. Request individual APL or Initial Outfitting List (IOL) for parts used in the original equipment.
C	The ORDNANCE alteration has been performed, repair parts are not required or listed in this is APL. Request individual APL as required.
D	Applicable to SHIPALT/ORDALT/SPALT (S/O/S) items, indicates the quantity by which the effected APL population of the item has been decreased a after accomplishment of the S/O/S.
F	Indicates that Note 3 above apply to the item.
G	Indicates that Note 2 above apply to the item.
H	Represents an item listed on AELs to provide technical information only and is not an authorized allowance.

ANC (Con't)

<u>CODE</u>	<u>DEFINITION</u>
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J	An unclassified item that reveals classified information when identified as used with or part of a classified equipment. Allowance list information for this item, including the NSN and allowed quantity, is listed in a classified supplement to this APL. This item is not listed in the COSAL SNSL.
K	Mandatory turn-in items. Turn-in installed items and all related spares to the Supply Department for return to the Supply System.
L	Unit is modified and reidentified with a new part number. Spare units are to be modified and returned as spares identified with the new part number and NSN indicated.
N	Represents a module required to execute an approved maintenance plan which calls for identifying the fault or failed module through progressive and/or selective module substitution. The Maintenance Assist Module (MAM) is included in the COSAL, Part III Section CF of the Stock Number Sequence List (SNSL). The item may also appear in Part III Section A of the SNSL as a Storeroom Item if usage warrants backup support.
P	Indicates Notes 2 and N above apply to the item
R	A Storeroom Item (SRI) that supports aviation equipment under the program support of NAVICP-Philadelphia.
S	Represents the superseding or approved alternate/substitute for the originally identified repair part when two or more repair parts are

ANC (Con't)

<u>CODE</u>	<u>DEFINITION</u>
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S (con't)	interchangeable in specified applications. The superseded alternate item may be identified by referring to the respective APL/AEL wherein the authorized alternates are listed under the item nomenclature. The superseded item should be retained onboard and utilized for repairs or to satisfy allowance requirements as may be specified for either alternate. When an allowance shortage exists, the item for which the allowance is specified in the SNSL should be requisitioned. Either item, however, may be issued by the supply system. This interchangeability does not apply to applications other than those to which the Note Code "S" applies.
T	Select at test. All NSNs required for the selection are listed for each circuit symbol. Items needed must be selected from among the listed NSNs based on equipment operating requirements. A suffix has been assigned to the circuit symbol for identification.
U	Dental OSI AELs only (the CD section of SNSL)
V	Variable. See the characteristics portion of the APL.
W	APL will state: NSN . . . has been cancelled-it cannot be procured. When part fails, replace with next higher assembly.
X	Indicates an Operating Space Item (OSI) that is included in The COSAL Part III Section B. The SNSL quantity is established by the highest single application quantity of all applications.

<u>ANC CODE</u>	<u>(Con't) DEFINITION</u>
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Y	Medical OSI (the CM section of SNSL)
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Z On Board Repair Part (OBRP) Kits
Blank Normally a Store Room Item

10. MATERIAL CONTROL CODES (MCC) for Navy managed items. Appears as 3rd position of the NSN (Ex. 2AH2355-00-701-9293). The MCC is assigned by the inventory manager to segregate items into more manageable groups. (DEN C003A)

CODE DEFINITION

A	Field Activity Control Items
B	Material (expendable ordnance) requiring Lot Number reporting
C	Material (expendable ordnance) requiring Serial Number reporting
D	Field Level Repairables (Items which generally can be repaired locally)
E	Material (expendable ordnance) requiring Lot and Serial Number Control but which is reported by Serial Number Only
F	Fast Moving 1I COG Forms or NON-Perishable Provisions
G	FBM Weapon System Repairable Requiring Intensive Management
H	Depot Level Repairable
I	Not assigned
J	2C Cog CESE Material (Major End Items)
K	Material (Explosive Ordnance) requiring precise Lot Number reporting
L	Local Stock or Items pending stock number assignment

MCC (Con't)

CODE DEFINITION

M	Medium Demand Velocity Items (Consumables)
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N	1I COG not stocked Print on Demand Flat Forms
P	Perishable Subsistence
Q	FBM Weapon System items Repairable requiring special test, special report, or periodic inspection
R	Resale - Brand Name Perishable Subsistence
S	Slow Demand Velocity Items (consumables)
T	Terminal Items
U	Fast Moving cognizance symbol 1I forms-locally procured at selected designated overseas activities
V	2C Cog CEEI Material (Major End Items)
W	Ground Support Equipment (End Items)
X	Special Program Repairables
Y	2C Cog Secondary Items Supporting CEEI (Major End Items)
Z	Special Program Consumables

11. SPECIAL MATERIAL IDENTIFICATION CODE (SMIC). Two-digit alpha or numeric code supplementing the National Stock Number for the purpose of providing visibility to designated items to ensure their technical integrity is maintained. Additional SMICs can be located in NAVSUP PUB 485 Appendix 14. (DEN C003B)

CODE DEFINITION

AB	Asbestos free material, carrier application
AF	Fighter Aircraft (F14D)

SMIC (Con't)

CODE DEFINITION

AG	Depot Level Repairable Non-Developmental Items
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AK	ORDALT Kits
A1	LM2500 Gas Turbine Engine
A7	PHM Unique Items
BG	Consumable Non-Developmental Items (NDI)
CA	Cryptographic Non-Design Control Repair Parts (DCRPs)
CC	Communication Security Design Control Repair Parts (COMSEC DCRPs)
CE	Sigint Design Control Repair Parts (SIGINT DCRPs)
CP	An item that requires special cleaning and packaging for oxygen/nitrogen service (e.g., valves, piping systems, generators)
CZ	CASS/OTPS
C1	An item that requires special cleaning and packaging for oxygen/nitrogen service (e.g., valves, piping system, generators) which also must meet the requirements of level 1
DG	An item that requires special cleaning and packaging for oxygen/hydrogen service (e.g., valves, piping systems, generators)
DS	Deep Submergence

DO	An oxygen/hydrogen clean item that supports Deep Submergence Systems that has undergone the extreme material control/quality assurance techniques that provide objective evidence of its acceptance for appropriate application. Each item has certification papers or tags stating, where certification papers are on file that pedigree its material and physical properties; provide traceability to manufacturer, contract list and lot, and document the quality assurance system/test requirements applied to the item.
D3	501K-17 Gas Turbine Engine
D4	An item that supports Deep Submergence systems that has undergone the extreme material control/quality assurance techniques that provides objective evidence of its acceptance for appropriate application. Each item has certification papers or tag stating where certification papers are on file that pedigree its material and physical properties; provide traceability to manufacturer, contract list and lot, and document the quality assurance system/test requirements applied to the item.
ED	Explosive Ordnance Disposal Tools/Equipment
ES	EOD Non-Magnetic Oxygen Clean Material
EY	4R/5R Cog Items Managed by Branch Aviation Supply Office
FK	Field Change Kits
HB	Harpoon: Anti-ship Cruise Missile depot and intermediate Items

SMIC (Con't)**CODE DEFINITION****SMIC (Con't)****CODE DEFINITION**

L1	(LEVEL 1) An item that supports either a SUBSAFE or Level 1 system that has undergone the extreme material control/quality assurance techniques which provide objective evidence of its acceptance for its appropriate application. Each item has certification papers (or special markings that provide traceability to the certification) that certify its material and physical properties, provide traceability to manufacturer, contract list and lot, and document the quality assurance system/test requirements applied to the item.
M1	Military Sealift Command (MSC) Unique
NT	Annular Ball Bearing for quiet operation application to submarine usage (Noise Test Bearings)
QA	Equipment parts requiring special material control and quality assurance which support surface or submarine application
Q3	Items that support a Level 1 or SUBSAFE critical system that has undergone quality assurance during the acquisition process
RE	Non-Source Bearing RADIAC
SA	Small Arms/Weapons which require special receipt, storage, issue, and controls by serial number
SB	SUBSAFE items (covered by SMIC "SS") for which special cleaning and packaging for oxygen service is required

SMIC Codes (Con't)
CODE DEFINITION

SP	A Navy Stock Account (NSA) Item that is unique to Strategic Systems Project Office (SSPO) controlled Fleet Ballistic Missile Weapons System Program. SMIC "SP" established a weapons system relation-ship.
SQ	Submarine Antenna Quality Assured Material
SS	Item in support of the SUBSAFE Program that meets all the requirements for L1 coding. In addition, installation of this item in critical (SUBSAFE) systems requires the item's vital attributes be further certified by 100% non-destructive tests. Tests are primarily radiography but may include magnetic particle, dye penetrant, and/or ultrasonic testing.
S1	Surface Ship Level 1 Material
TD	Peculiar spares and repair parts in support of Cognizance Symbol 20 Training Equipment.
TE	General Purpose Electronic Test Equipment
TM	General Electronic End Item
TP	Torpedo Functional Item Replacement (FIR) Components
TR	TRIDENT Ships Program
TU	LM2500 Gas Turbine Engine
TV	LM2500 Special Support Equipment
TW	LM2500 Ancillary Equipment
TX	Avionics Support Equipment and Parts
T1	TRIDENT Test Equipment for TRIDENT SSBNs
UB	501K-17 Gas Turbine Engine
UC	501K-17 Special Support Equipment

SMIC Codes (Con't)
CODE DEFINITION

UD	Modification Kit 501K-17 Ancillary Equipment
UM	Underwater Mines & Depth Charges
UX	Common Aircraft Instruments
VG	Equipment and/or Parts Requiring Special Material Control and Quality Assurance that support Surface or Submarine Application. Special cleaning and packaging for Oxygen/Hydrogen Service is required
VL	ATS-1 Class Critical Diesel Engine Parts
VM	Equipment and/or parts requiring special material control and quality assurance that support the Non-magnetic Signature of Minesweepers.
WP	Match Conditioned Small Arms
X1	Nuclear Power
X2	Nuclear Reactor Plant (NRP) material under the technical cognizance of NAVSEA 08 specially designed, manufactured, and/or treated for use in an NRP or controls thereof. This material requires special handling, final machining, etc., by the user prior to installation or use.
X3	NRP material under the technical cognizance of NAVSEA 08 specially designed, manufactured, and/or treated for use in an NRP or controls thereof. This category includes all other NRP items that are not coded "X2" or "X4".

X4	Special category of NRP material that is procured by NAVICP-M and technically receipt inspected and certified as ready for use by a naval nuclear shipyard.
X5	Navy Nuclear Reactor Plant (NNRP) component level under the technical cognizance of NAVSEA 08 but managed by NAVICP-M. The SMIC contains all components level Nuclear material not qualifying for "X1" or "X4" SMIC assignment.

12. SUPPLY MANAGEMENT CODES

All Codes will appear in the Stock Number Sequence List (SNSL). In addition, Security Classification Codes (SCC) will be shown on AELs.

a. SHELF LIFE (SL) CODE denotes the shelf life span of material from date of manufacture to the date that the material can no longer be used and should be disposed of, or tested in accordance with the inventory manager's instructions in order to extend the shelf life. Type I codes (alpha) apply to items for which shelf life cannot be extended. Type II codes (numeric) apply to items for which shelf life can be extended. (DEN C028)

SMIC Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
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<u>TYPE I</u>	<u>SHELF LIFE PERIOD</u>	<u>Months</u>	<u>Quarters</u>
0 (Zero)	Non-deteriorative	N/A	N/A
A	1 Month	1	N/A
B	2 Months	2	N/A
C	3 Months	3	1
D	4 Months	3	1
E	5 Months	4	1
F	6 Months	5	2
G	9 Months	8	3
H	12 Months	10	3
I	72 Months	61	20
J	15 Months	13	4
K	18 Months	15	5
L	21 Months	18	6
M	24 Months	21	7
N	27 Months	23	8
P	30 Months	26	9
Q	36 Months	31	10
R	48 Months	41	14
S	60 Months	51	17
T	84 Months	71	24
U	96 Months	82	27
V	Variable	-	-
W	120 Months	102	34
Y	180 Months	153	51
Z	240 Months	204	68

0	Non-deteriorative
1	3 Months
2	6 Months
3	9 Months
4	12 Months
5	18 Months
6	24 Months
7	36 Months
8	48 Months
9	60 Months
X	Medical items, parachutes and chemical protective clothing with a shelf life longer than 60 months

b. SHELF LIFE ACTION CODE (SLA). These codes are assigned to a shelf life item to specify the type or inspection, test or restorative action to be taken when the item has reached its storage shelf life, and to specify the extension of the shelf life time period after the test or restorative action has been completed. Shelf-life action codes are identified to applicable national stock numbers in the publication, Shelf life Items. (DEN C029)

NOTE: An underscore (_) reflected in the second position indicates the assignment of a Shelf Life Code for the next cyclic inspection. Refer to Shelf Life Code to determine the next inspection cycle.

<u>CODE</u>	<u>DEFINITION</u>
C0	Check/inspect/test in accordance with inventory manager's instructions.

TYPE II CODES SHELF LIFE PERIOD

SLA Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
C_	Incorporate all mandatory changes, etc. If found satisfactory, reclassify to the number of months indicated after which it is considered unsuitable for restoration to issuable status. Shelf-Life Codes will be used to identify the number of months for which the items are reclassified.
CT	Incorporate all mandatory changes, perform minor adjustments required, clean and relubricate bearings, reassemble, test to post overhaul standards, and correct any observed discrepancies. Items that pass tests shall be returned to stock as Ready For Issue (RFI). Exterior package marking of such items shall indicate the latest check and test date and the original date of manufacture. Items that fail test shall be placed in "F" Condition.
L_	To be tested by the laboratory/activity in increments after the initial time limit has expired. The letter or number following the "L" indicates increment in which laboratory tests are required. If item fails test, take disposition action.
RD	Replace all deteriorated and nonmetallic components subject to deterioration (disassemble and process to level required to permit replacement of deteriorable items; test to post overhaul standards and return to stock as RFI item with fully restored storage time limitations). Exterior package marking of such items shall indicate the latest date of overhaul.

SLA Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
RJ	This is assigned to fuel metering equipment that has been tested by other than MIL-F-7024A.
RN	Provides for equipment that has been tested with fluids indicated by Specification MIL-F-7024A and has not subsequently been operated with other fluids. (For fuel metering equipment only).
SA	Salvage
SB	Request cannibalization/salvage instructions from inventory manager.
S9	Identification of Safety Items. A safety item designated by the Navy that is subject to a 5 year age limitation when used for purposes involving safety of personnel. Material in this category that is over 5 years old will not be used for repair or modification of personnel, drag, or special parachutes, other uses directly involving personnel safety. Use Advice Code 2H unless material is being used for cargo parachutes or other uses not involving personnel safety.
T_	Test. If correct, extend life by number of months indicated by the shelf life code following "T", after which process in accordance with Code RD. For flight clothing, test in increments indicated by the shelf life code following "T"; if correct, return to stock as RFI item; if not correct, make necessary repairs to the extent economically feasible and return to stock as RFI item. If test criteria are not available, proceed as follows:

SLA Codes (Con't)**CODE DEFINITION**

T_	a. For 9Q cognizance items, request test and extension criteria from: General Services Administration Office of Standardization and Quality Control (FM) Federal Supply Service Washington, DC 20401 (202) 557-0977
(Con'	b. For 9C, 9D, 9I, 9M, and 9N cognizance items, refer to DSAM 4155.5, Quality Control Depot Serviceability Standards, distributed to most stock points, and stocked at NPFC Philadelphia.
	c. For all other items, request advice of service inventory managers.
UU	Unsuitable for restoration to issuable status. At end of shelf life period, material will be disposed of in accordance with existing instructions.
X_	Test; if passed, re-date item to the number of months/years indicated by the Shelf Life Code following "x": If item fails test, dispose of it in accordance with existing instructions.
00	Not deteriorative. Must always be shown when Shelf Life Code is "0" numeric.

c. TYPE OF STORAGE SPACE (TSS). Indicates the type and environmental conditions to be maintained for an item during storage or shipment. (DEN C027)

CODE DEFINITION

A	General Purpose, Unheated
B	General Purpose, Heated

TSS Codes (Con't)**CODE DEFINITION**

C	General Purpose, Controlled Humidity (Maximum 40 Degrees RH ashore)
D	Heavy Duty, Unheated (Overhead Crane Area)
E	Heavy Duty, Heated (Overhead Crane Area)
F	Heavy Duty, Controlled Humidity (Overhead Crane Area)
G	Flammable
H	Freeze (Below 32° F)
I	Chill (Between 32°F and 50°F)
J	Shed
K	Open
L	Explosive Storage (Non-ordnance items, such as explosive bolts and rivets)
M	Acid Storage
N	Inert Compressed Gas Storage. Naval Ships' Technical Manual Chapter 9230, Section 23 (Stowage of Compressed Gases, General) and Section 24 (Stowage Precautions) provide stowage requirements and safety precautions for compressed gases.
O	Special storage. Requires specific authority and stowage instructions.
P	Separate Storage. Fire producers, not elsewhere classified. Keep away from acid, combustible, organic, and readily oxidizable materials.
Q	Warehouse/Flammable storage. Prohibited for shipboard storage.
R	Warehouse/General Storage. No special requirements. Prohibited for shipboard storage.

TSS Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
S	Warehouse/Special storage. Requires specific authority and storage instructions. Prohibited for shipboard storage.
T	Warehouse/Separate Storage. Fire producers. Keep away from acid, combustible, organic, and readily oxidizable materials. Prohibited for shipboard storage.
U	Flammable Compressed Gas. Naval Ships' Technical Manual Chapter 9230, Section 23 (Stowage of Compressed Gases, General) and Section 24 (Stowage Precautions) provide stowage requirements and safety precautions for compressed gases.
V	Oxidizing Compressed Gas. Naval Ships' Technical Manual Chapter 9230, Section 23 (Stowage of Compressed Gases, General) and Section 24 (Stowage Precautions) provide stowage requirements and safety precautions for compressed gases.
W	*Poisonous Compressed Gas. Naval Ships' Technical Manual Chapter 9230, Section 23 (Stowage of Compressed Gases, General) and Section 24 (Stowage Precautions) provide stowage requirements and safety precautions for compressed gases.
X	Radioactive Material. Store in designated radioactive material area in accordance with NAVSUP PUB 485 Volume 1, par. 8222.
Y	Ship Critical Material (SCM), major ship equipment and/or components. Store indoors and package/preserve appropriately.

TSS Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
Z	Ship Critical Material (SCM), major ship equipment and/or components. Store outdoors under cover and package/preserve appropriately.

d. SPECIAL MATERIAL CONTENT (SMC) CODE is a single digit alpha code that denotes an items physical characteristics that require the item to be specially handled and/or safeguarded. (DEN D015)

<u>CODE</u>	<u>DEFINITION</u>
A	Medical Items (Drugs/Narcotics/Antibiotics/Medical Kits). Storage and custody requirements for medical supplies are provided in NAVMED P-117, Manual of the Medical Department.
B	Flammable Compressed Gas
C	Corrosive Solids/Corrosive Liquids (other than acid)
D	Alcohol (Ethanol, ethyl alcohol, or grain alcohol only). Storage and custody requirements for medical supplies are provided in NAVMED P-117, Manual of the Medical Department.
E	Precious Metals
F	Flammable Liquid, Flash point not more than 60 degrees C (140 degrees F)
G	Combustible Liquid, Flash point 60 degrees C (140 degrees F) to 93 degrees C (200 degrees F)
H	PCB (Item contains Polychlorinated Biphenyls)
I	Mercury (not authorized for submarine use)
J	Oxidizing Material

SMC Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
K	Organic Peroxides
L	Other Regulated Materials (ORM) or Class 9 (Misc. Hazardous Materials)
M	Magnetic
N	Asbestos (item capable of emitting asbestos dust/fibers)
O	Mercury (not authorized for any shipboard use)
P	Poison (including Methanol, wood alcohol, and denatured alcohol). Storage and custody requirements for medical supplies are provided in NAVMED P-117, Manual of the Medical Department.
Q	Explosive Non-ordnance items
R	Radioactive Material
S	Oils/Petroleum Products (not otherwise specified)
T	Toxic substance. Storage and custody requirements for medical supplies are provided in NAVMED P-117, Manual of the Medical Department.
U	Mercury (authorized for general use)
V	Acid
W	Non-Flammable Compressed Gas
X	Radioactive and Magnetic Material
Y	Nonmagnetic (must remain free of strong magnetic field)
Z	Flammable Solids
2	Electrostatic Discharge (ESD)/Electromagnetic (EM) Sensitive Item
3	Electrostatic Discharge Sensitive (ESDS) Item
4	Electromagnetic (EM) Sensitive Item

SMC Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
5	Hazardous Material (non-specific), items unique formulations may produce different hazard classes. Consult item's Material Safety Data Sheet (MSDS) or container warning label.
6	Explosives, Ordnance items
7	Dangerous When Wet Material
8	Spontaneously Combustible Material
9	Non-Hazardous or Non-Sensitive item requiring no hazardous or special handling, packaging, or precautions.

e. SECURITY CLASSIFICATION CODE (SCC).
Designates the degree of physical security assigned to an item of supply. (DEN C017)

<u>CODE</u>	<u>DEFINITION</u>
A	Confidential - Formerly Restricted Data
B	Confidential -Restricted Data
C	Confidential
D	Confidential - Cryptologic
E	Secret - Cryptologic
F	Top Secret - Cryptologic
G	Secret - Formerly Restricted Data
H	Secret - Restricted Data
I	Aircraft Equipment/Parts
J	Pilferable Item - May be applied to unclassified (U) items only
K	Top Secret - Formerly Restricted Data

Security Classification Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
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L	Top Secret - Restricted Data
M	Hand Tools and Shop Equipment
N	Firearm piece parts and non-lethal firearm end items
O	Item contains naval nuclear propulsion information; disposal and access limitations are identified in NAVSEAINST C5511.32. Store and handle in a manner that will preclude unauthorized access to this material.
P	Ammunition and Explosives
Q	Narcotics/other selected items requiring safe or vault storage
R	Precious Metals/other items requiring safe or vault storage
S	Secret
T	Top Secret
U	Unclassified
V	Clothing and Equipment
W	Office Machines
X	Photographic Equipment and Supplies
Y	Communications/Electronic Equipment and Parts
Z	Vehicular Equipment and Parts
1	Highest Sensitivity (Category I) - Non-nuclear missiles and rockets in a ready to fire configuration (e.g., Hamlet, Redeye, Stinger, Dragon, LAW, Viper) and explosive rounds for non-nuclear missiles and rockets. This also applies in situations where the launchers (tube) and explosive rounds, though not in a ready to fire configuration, are jointly stored or transported.

Security Classification Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
2	High Sensitivity (Category II) - Arms, Ammunition and Explosives
3	Moderate Sensitivity (Category III) - Arms, Ammunition and Explosives.
4	Low Sensitivity (Category IV) - Arms, Ammunition and Explosives.
5	Highest Sensitivity (Category I) - Arms, Ammunition, and Explosives with a security classification of Secret. Items will be stored and transported in accordance with the provisions of DOD 5100.76-M or DOD 5200.1-R whichever is more stringent.
6	Highest Sensitivity (Category I) - Arms, Ammunition, and Explosives with a security classification of Confidential. Items will be stored and transported in accordance with the provisions of DOD 5100.76-M or DOD 5200.1-R whichever is more stringent.
7	Item assigned a Demilitarization Code other than A, B, or Q for which another CIIC is inappropriate. The loss, theft, unlawful disposition, and/or recovery of an item in this category will be investigated in accordance with DOD 4000.25-2-M and DOD 7200.10-M.
8	High Sensitivity (Category II) - Arms, Ammunition and Explosives with security classification of Confidential. Items will be stored and transported in accordance with the provisions of DOD 5100.76-M or DOD 5200.1-R whichever is more stringent.

Security Classification Codes (Con't)

<u>CODE</u>	<u>DEFINITION</u>
9	This code identifies an item as a Controlled Cryptographic Item (CCI). CCI is described as secure telecommunications or information handling equipment, associated cryptographic component, or other hardware item that performs a critical COMSEC function. Items so designated are unclassified but controlled and will bear the designation "Controlled Cryptographic Item" or "CCI".

13. CUSTODY CODES (CUST).

a. Repair Part. All items that appear in COSAL Part III, Section A. These are items carried in the storeroom for support of installed equipment, or in a few cases, items that are replacements for operating space items.

b. Controlled Equipage. Operating space items that appear in COSAL Part III, Section B that, due to their nature require special management attention. Specific qualifying characteristics are the following:

(1) Valuable, highly pilferable, and easily convertible to personal use. Required in times of emergency for safety of life.

(2) The following definitions will be used to identify the categories of Controlled Equipage in COSAL Part III Section B.

(a) Controlled Equipage - Custody Signature Required. Controlled Equipage items that can be safeguarded by an individual and are of such value that custody signature will reduce the chance for loss.

<u>CODE</u>	<u>DEFINITION</u>
S	Controlled Equipage - Custody Signature required

(b) Equipage -Control Not Required. All items that appear in COSAL Part III, Section B and do not qualify for categorization in any degree of Controlled Equipage.

<u>CODE</u>	<u>DEFINITION</u>
C	Consumables
E	Equipage - Control Not Required
R	Repair Part or MAM

14. DERIVATION (DERIV). Used to reflect a code showing the SNSL quantity computation method.

<u>CODE</u>	<u>DEFINITION</u>
A	Allowance Quantity (AQ) is the highest Availability Centered Inventory Model (ACIM) Override (Or Highest MRU)
B	AQ includes ACIM and Non-ACIM Population
C	AQ is Computed Quantity Plus ACIM Qty
D	Demand Based Item
E	Early Supply Support Override "E" Qty
F	Failure of the item would result in a C4 CASREP, Override Code "F" (1X MRU)
G	AQ is the highest ACIM Plus any "P" or "E" Qty
H	AQ is computed Qty plus any ACIM, "P" and or "E" Qty
I	Insurance Item
M	AQ is multiple of the MRU

DERIV (Con't)

<u>CODE</u>	<u>DEFINITION</u>
N	Non Computed Item (OSI, AEL or MAM)

0	AQ is the sum of any "P" or "E" Qty
P	Planned Maintenance Requirement "P" Qty
R	Non Definitive Quantity (AR, FAB, SEL)
S	Safety Override Code "S" (1X MRU)
W	FLSIP.5 plus CASREP (ADDBACK) (Not assigned since February 2005)
X	FLSIP.5 plus 3M (ADDBACK)
Y	CASREP add-ons due to Price Sensitive FLSIP

15. PRECIOUS METALS INDICATOR. This code is used to identify items that have precious metals as part of their content. Precious metals are those metals generally considered to be uncommon and highly valuable which are relatively superior in certain properties such as resistance to corrosion and electrical conductivity. (DEN C411)

Precious Metals Indicator

<u>CODE</u>	<u>TYPE OF METAL</u>	<u>CONTENT VALUE</u>
A	No known precious metal	None
B	Item is known to contain precious metal(s) but the amount(s) unknown	None

Precious Metals Indicator (Con't)

<u>CODE</u>	<u>TYPE OF METAL</u>	<u>CONTENT VALUE</u>
C	Presence or	None

absence of precious metals varies between items of production for the same item of supply

D	Silver	Equals 15 grams or more
E	Silver	Less than 15 grams
F	Gold	Equals 10 grams or more
G	Gold	Less than 10 grams
H	*Platinum	Equals 10 grams or more
I	*Platinum	Less than 10 grams
J	*Palladium	Equals 5 grams or more
K	*Palladium	Less than 5 grams
L	*Iridium	Equals 20 grams or more
M	*Iridium	Less than 20 grams
N	*Rhodium	Equals 15 grams or more
O	*Rhodium	Less than 15 grams
P	*Osmium	Equals 10 grams or more
Q	*Osmium	Less than 10 grams
R	*Ruthenium	Equals 10 grams or more
S	*Ruthenium	Less than 10 grams
T	Silver-Gold	Combination equals 15 grams or more

<u>CODE</u>	<u>TYPE OF METAL</u>	<u>CONTENT VALUE</u>
U	Silver-Gold	Combination contains less

		than 15 grams	
V	*Silver-Platinum Family	Combination equals 15 grams or more	
W	*Silver-Platinum Family	Combination contains less than 15 grams	
X	*Silver-Gold-Platinum Family	Combination equals 15 grams or more	
Y	*Silver-Gold-Platinum Family	Combination contains less than 15 grams	
Z	*Gold-Platinum Family	Combination equals 10 grams or more	
2	*Gold-Platinum Family	Combination contains less than 10 grams	
3	Determination of precious metal content is uneconomical		

*NOTE 1: The Precious Metals Recovery Program for the Federal Government encompasses gold, silver and the platinum family (palladium, iridium, rhodium, osmium, and ruthenium).

16. ALLOWANCE TYPE (AT) CODES. Identifies the reason material is being carried in stock. (DEN E015)

CODE DEFINITION

AT 1	COSAL Item
AT 2	Load List Item, applicable to load carrying ships only

AT Codes (Con't)

CODE DEFINITION

AT 3	Load and Allowance List Item, applicable to load carrying ships only
AT 4	Non-Allowed COSAL item that is stocked solely based on demand. Demand Based Item is an item that experiences a demand frequency of two or more in a period of six months.
AT 5	Non-COSAL item authorized add item based on specific TYCOM authority.
AT 6	Non-Allowed COSAL excess item that does not have sufficient demand to maintain. The item is to be off-loaded and deleted.
AT 7	Economic Retention. Excess item that, because of low unit cost (normally under \$100.00), is authorized for retention until the next ILO/ReAVCAL. The exact amount may be specified by each TYCOM.
AT 8	Non-COSAL item that is established for demand recording only. It will be changed to AT Code 4 if demand reaches established criteria, otherwise it will be deleted after 24 months of no demand.
AT 9	Assigned to a substitute item that is not stocked as a primary number.

17. DEMILITARIZATION (DEMIL) CODES. The term "demilitarization" is defined as the act of destroying the military offensive or defensive advantages which may be inherent in an item of material in order to render it useless for its originally intended purpose. The term specifically applies to excess Munitions List Items (MLIs), Significant Military Equipment (SME) item (item that warrant special export controls due to their substantial military capability, and other lethal materials being considered for turn-in to a property disposal activity for sale or other disposition. Demilitarization codes assigned in the FEDLOG identify the items that require demilitarization, as well as the extent of

demilitarization required. Codes also are assigned to identify the MLIs and non-MLIs that do not require demilitarization. DEN (D017)

CODE DEFINITION

- | | |
|---|--|
| A | Non MLI/Non-SLI--Demilitarization not required. |
| B | MLI (Non-SME)--Demilitarization not required. Trade Security Controls (TSCs) required at disposition. |
| C | MLI (SME)--Remove and/or demilitarize installed key point(s), as prescribed in Defense Demilitarization DOD manual 4160.21-M-1, or lethal parts, components and accessories. |
| D | MLI (SME)-- Total destruction of item and components so as to prevent restoration or repair. Demilitarize by melting, cutting, tearing, scratching, crushing, breaking, punching, neutralizing, etc. As an alternate, burial or deep water dumping may be used when coordinated with by the DOD Demilitarization Program Office. |
| E | MLI - (Non-SME)--Additional critical items/material determined to require demilitarization, either key point or total destruction. Demilitarization instructions to be furnished by the DOD Demilitarization Program Office. |
| F | MLI (SME)-- Demilitarization instructions to be furnished by the Item/Technical Manager. |

Demilitarization Codes (con't)

CODE DEFINITION

- | | |
|---|--|
| G | MLI (SME)--Demilitarization required – Ammunition Explosives Dangerous Articles (AEDA). Demilitarization, and if required, declassification and/or removal of sensitive markings or information, will be accomplished prior to physical transfer to DRMO. This code will be used for all unclassified AEDA items. |
| P | MLI(SME)--Security Classified Item--Declassification and any other required demilitarization and removal of any sensitive markings or information will be accomplished prior to accountability or physical transfer to a DRMO. This code will also be assigned to classified AEDA items. |
| Q | Strategic List Item (SLI)--Demilitarization not required. SLI are non-MLI and are controlled by the U.S. Department of Commerce through the Export Administration Regulations (EAR) indicated on the Commerce Control list (CCL). These items are subject to Import Certification and Delivery Verification (IC/DV) control and other Trade Security Controls contained in DOD 4160.21-M-1, Ch. III & Appendix 5.. |

18. COSAL TYPE CODES (CTC).

CODE DEFINITION

- | | |
|--------|------------------|
| 1 or C | COSAL HM&E |
| 3 | MAMs Requirement |
| 4 | RSS Requirement |
| 7 | Boat Haven |

CTC Codes (con't)

CODE DEFINITION

- 8 Operating Space Item (OSI)
- 9 LAMPS

19. UNIT OF ISSUE U/I. Abbreviations will be used throughout the Navy for requesting, issuing and recording of all material in the Navy Supply System. Periods will not be used with these abbreviations. The plural of the abbreviation will be the same as the singular. See next page for codes and definitions. (DEN C005).

UNIT OF ISSUE ABBREVIATIONS

AM	*Ampoule	FT	Foot	RL	*Reel
AT	Assortment	FV	Five	RM	Ream
AY	Assembly	FY	Fifty	RO	*Roll
BA	*Ball	GL	Gallon	SD	*Skid
BD	*Bundle	GP	Group	SE	Set
BE	*Bale	GR	Gross	SF	Square Foot
BF	Board Foot	HD	Hundred	SH	Sheet
BG	*Bag	HK	*Hank	SK	Skein
BK	*Book	IN	Inch	SL	*Spool
BL	*Barrel	JR	*Jar	SO	Shot
BO	*Bolt	KT	Kit	SP	*Strip
BR	*Bar	LB	Pound	SX	*Stick
BT	*Bottle	LG	*Length	SY	Square Yard
BX	*Box	LI	Liter	TD	Twenty-Four
CA	*Cartridge	MC	Thousand Cubic	TE	Ten
CB	*Carboy		Feet	TF	Twenty-Five
CD	Cubic Yard	ME	Meal	TI	Tin
CE	*Cone	MR	Meter	TN	Ton
CF	Cubic Foot	MX	Thousand	TO	Troy Ounce
CK	*Cake	OT	Outfit	TS	Thirty-Six
CL	*Coil	OZ	Ounce	TU	*Tube
CN	*Can	PD	*Pad	VI	*Vial
CO	*Container	PG	*Package	YD	Yard
CS	Case	PK	Pack		
CT	Carton	PM	Plate		
CY	*Cylinder	PR	Pair		
CZ	Cubic Meter	PT	Pint		
DR	*Drum	PZ	*Packet		
DZ	Dozen	QT	Quart		
EA	Each	RA	Ration		

NOTE: Those terms preceded by an asterisk () require quantitative non-definitive unit of issue.

B. HULL, MECHANICAL, AND ELECTRICAL APL.

Nine digit APL number for Hull, Mechanical, and Electrical (HM&E) equipments/components are structured as follows:

016031604

The first two digits of an HME APL number identifies the category of equipment e.g., 01=pumps, 02 =boilers, 06 = compressors, 88 = valves, etc.

016031604

The third, fourth, and fifth digits of a HME APL number represent a non-significant letter "A or B" and the year the APL is assigned (06).

01A061128

Note: Level 1 and Sub-Safe valves are assigned/recognized with '4' or '7' as the third digit:

884XXXXXX - Sub-Safe

887XXXXXX - Level 1

The last four digits of an HME APL number are assigned by NAVICP-M as a file number within the WSF.

1. HME APL NUMBERING SYSTEM (NUMERICAL)

01	PUMPS
02	BOILERS
03	HEAT EXCHANGERS
04	CONDENSERS
05	TURBINES
06	COMPRESSORS

	HME APL Numbering System (Numerical) (Con't)
07	HEATERS
08	DISTILLING PLANTS
09	BATTERY CHARGERS
10	METERS
11	CONVERTERS
12	MAINTENANCE & REPAIR SHOP EQUIPMENT
13	TRANSFORMERS
14	CIRCUIT BREAKERS
15	CONTROLLERS
16	GENERATORS
17	MOTORS
18	MOTOR GENERATORS
19	RELAYS
20	RHEOSTATS
21	SWITCHES (LESS FIRE CONTROL)
22	SWITCHBOARDS
23	ALARMS & SIGNALING DEVICES - VISUAL
24	LIGHTING FIXTURES & LAMPS (ELECT - NON ELECT)
25	GYRO COMPASS EQUIPMENT
26	PROJECTION EQUIPMENT
27	INTERIOR COMMUNICATION EQUIPMENT
28	NAVIGATIONAL EQUIPMENT (ALSO TIME PIECES)
29	INJECTORS
30	BURNERS
31	MARINE HARDWARE & HULL ITEMS
32	REFRIGERATION EQUIPMENT
33	AIR CONDITIONING EQUIPMENT
34	STARTERS
35	WIPERS
36	ALARMS & SIGNAL DEVICES - AUDIBLE
37	BEARINGS
38	INDICATORS
39	CLUTCHES
40	FANS

HME APL Numbering System (Numerical) (Con't)

41	SHOP EQUIPMENT
42	REGULATORS
43	GALLEY EQUIPMENT
44	DEHUMIDIFICATION EQUIPMENT
45	GAGES
46	TESTING & MEASURING EQUIPMENT
47	CHEMICAL WARFARE EQUIPMENT
48	FILTERS
49	CARBURETORS
50	PANELS
51	ISOLATORS
52	HYDRAULIC EQUIPMENT
53	CAPSTANS
55	REELS & TOWING EQUIPMENT
56	DAVITS
57	CRANES
58	HOIST & AMMUNITION HANDLING EQUIPMENT
59	ELEVATORS
60	STEERING GEARS
61	CONTROL EQUIP-CONSTANT FREQUENCY
	CONTROLS - AMPLIDYNE
	CONTROLS - ELECTRICAL
	CONTROLS - MECHANICAL
	CONTROLS-ROTOTROL
	CONTROLS - SELF SYNCHRONOUS
62	WINCHES
63	WINDGLASSES
64	FIRE FIGHTING EQUIPMENT
65	LUBRICATORS
66	ENGINES
67	PLUMBING EQUIPMENT
68	MAGNETOS
69	GEARS
70	GOVERNORS
71	IGNITION EQUIPMENT
72	MINOR LANDING CRAFT & SMALL BOATS

HME APL Numbering System (Numerical) (Con't)

73	EJECTORS
74	EDUCTORS
75	STRAINERS
76	PURIFIERS
77	TRAPS
78	COUPLINGS
79	SILENCING EQUIPMENT
80	BRAKES
81	BLOWERS
82	WELDING SYSTEMS
83	SHIP & BOAT PROPULSION COMPONENTS
85	DECK MACHINERY
86	PHOTOGRAPHIC EQUIPMENT
87	UNDERWATER LOG EQUIPMENT
88	VALVES
884	SUB-SAFE
887	LEVEL 1
89	MISCELLANEOUS PARTS
91	LAUNDRY EQUIPMENT
92	TANKS
93	PIPE, TUBING HOSE & FITTINGS (METAL & FLEXIBLE)
94	ASW & MINESWEEPING EQUIPMENT
95	AUTOMOTIVE & CONSTRUCTION EQUIPMENT
97	PERISCOPES & MAST
98	SPECIAL POWER PLANT EQUIPMENT
99	MISCELLANEOUS EQUIPMENT

2. HME APL EQUIPMENT CATEGORY (ALPHABETICAL)

AIR CONDITIONING EQUIPMENT	33
ALARMS & SIGNALING DEVICES -AUDIBLE	36
ALARMS & SIGNALING DEVICES - VISUAL	23
ASW & MINESWEEPING EQUIPMENT	94
AUTOMOTIVE & CONSTRUCTION EQUIPMENT	95

HME APL Equipment Category (Alpha) (Con't)

BATTERY CHARGERS	09
BEARINGS	37
BLOWERS	81
BOILERS	02
BRAKES	80
BURNERS	30
CAPSTANS	53
CARBURETORS	49
CHEMICAL WARFARE EQUIPMENT	47
CIRCUIT BREAKERS	14
CLUTCHES-	39
COMPRESSORS	06
CONDENSERS	04
CONTROL EQUIPMENT -CONSTANT FREQUENCY	61
CONTROLS - AMPLIDYNE	
CONTROLS - ELECTRICAL	
CONTROLS - MECHANICAL	
CONTROLS - ROTOTROL	
CONTROLS - SELF SYNCHRONOUS	
CONTROLLERS	15
CONVERTERS	11
COUPLINGS	78
CRANES	57
DAVITS	56
DECK MACHINERY	85
DEHUMIDIFICATION EQUIPMENT	44
DISTILLING PLANTS	08
EDUCTORS	74
EJECTORS	73
ELEVATORS	59
ENGINES	66
FANS	40
FILTERS	48
FIRE FIGHTING EQUIPMENT	64
GAGES	45
GALLEY EQUIPMENT	43

HME APL Equipment Category (Alpha) (Con't)

GEARS	69
GENERATORS	16
GOVERNORS	70
GYRO COMPASS EQUIPMENT	25
HEAT EXCHANGERS	03
HEATERS	07
HOISTS & AMMUNITION HANDLING EQUIPMENT	58
HYDRAULIC EQUIPMENT	52
IGNITION EQUIPMENT	71
INDICATORS	38
INJECTORS	29
INTERIOR COMMUNICATION EQUIPMENT	27
ISOLATORS	51
LAUNDRY EQUIPMENT	91
LEVEL 1 VALVE	887
LIGHTING FIXTURES & LAMPS	24
LUBRICATORS	65
MAGNETOS	68
MAINTENANCE & REPAIR SHOP EQUIPMENT	12
MARINE HARDWARE & HULL ITEMS	31
METERS	10
MINOR LANDING CRAFT & SMALL BOATS	72
MISCELLANEOUS EQUIPMENT	99
MISCELLANEOUS PARTS	89
MOTOR GENERATORS	18
MOTORS	17
NAVIGATIONAL EQUIPMENT (ALSO TIMEPIECES)	28
ORDNANCE	00
PANELS	50
PERISCOPES & MAST	97
PHOTOGRAPHIC EQUIPMENT	86
PIPE, TUBING, HOSE & FITTINGS (METAL & FLEXIBLE)	93
PLUMBING EQUIPMENT	67
PROJECTION EQUIPMENT	26
PUMPS	01

HME APL Equipment Category (Alpha) (Con't)

PURIFIERS	76
REELS & TOWING EQUIPMENT	55
REFRIGERATION EQUIPMENT	32
REGULATORS	42
RELAYS	19
RHEOSTATS	20
SHIP & BOAT PROPULSION COMPONENTS	83
SHOP EQUIPMENT	41
SILENCING EQUIPMENT	79
SPECIAL POWER PLANT EQUIPMENT	98
STARTERS	34
STEERING GEARS	60
STRAINERS	75
SUB-SAFE VALVE	884
SWITCHBOARDS (LESS FIRE CONTROL)	22
SWITCHES	21
TANKS	92
TEST & MEASURING EQUIPMENT	46
TRANSFORMERS	13
TRAPS	77
TURBINES	05
UNDERWATER LOG EQUIPMENT	87
VALVES	88
WELDING SYSTEMS	82
WINCHES	62
WINDGLASSES	63
WIPERS	35

C. ORDNANCE APL

Nine digit APL numbers for ordnance systems/equipments/components are structured much the same as for HME with the following exceptions:

The first two digits for ordnance systems/equipments/components are identified by two zeros.

00412----

The third, fourth, and fifth digits identify a specific ordnance system or equipment, e.g., 412 is assigned to Terrier launching equipment. The last four digits identify an equipment/component within the system/equipment.

00412----

1. ORDNANCE APL NUMBERING SYSTEM (NUMERICAL)

OR	ORDALTS
00200	GUN POD MK 4
00210	MK 12 GUN
00215	POD GUN SUU/11A/A
00220	MK 61 AI GUN
00230	GUN H60C
00231	GUN H60D
00250	GUN GAUZBA
00251	GUN H197
00260	LAUNCHER XH129
00270	POD GPUZA
00280	SUU 44A FLARE DISPENSER
00281	SUU 40 FLARE DISPENSER
00282	FUEL GEILING UNIT HIG-10
00401	STANDARD MISSILE
00402	TARTAR LAUNCHING EQUIP
00403	TARTAR MISSILE EQUIP
00404	TARTAR MISSILE EQUIP, GUIDED MISSILE SUP ONLY
00412	TERRIER LAUNCHING EQUIP
00413	TERRIER MISSILE EQUIP
00414	TERRIER MISSILE EQUIP, GUIDED MISSILE SUP ONLY

	Ordnance (Numerical)	APL (Con't)	Numbering	System
00422	TALOS LAUNCHING EQUIP			
00423	TALOS MISSILE EQUIP			
00424	TALOS MISSILE EQUIP, GUIDED MISSILE SUP ONLY			
00492	MISCELLANEOUS LAUNCHING EQUIP AND TORPEDO CONTAINERS			
00500	ASROC FIRE CONTROL EQUIP			
00502	ASROC LAUNCHING EQUIP			
00503	ASROC MISSILE EQUIP			
00511	SUBROC FIRE CONTROL EQUIP			
00512	FIRE CONTROL MK 48 CAPABILITY			
00513	FIRE CONTROL MK 48 CAPABILITY			
00514	FIRE CONTROL MK 48 CAPABILITY			
00515	FIRE CONTROL MK 48 CAPABILITY			
00516	FIRE CONTROL MK 48 CAPABILITY			
00520	FIRE CONTROL MK 48 CAPABILITY			
00521	FIRE CONTROL MK 48 CAPABILITY			
00522	TEST EQUIPMENT MK 48 CAPABILITY			
00575	TELEMETERING SETS			
00602	GUN MOUNTS, ROCKET LAUNCHER MK 108			
00603	GUN MOUNT, 5"/54 MK 42 MOD 9			
00604	GUN MOUNT, 5"/54 MK 45 MOD 0			
00610	PROJECTORS, DEPTH CHARGES, MINES			
00621	FIRE CONTROL EQUIPMENT			
00622	GMLS MK 25 MODS 0 BPDSMS			
00623	LAUNCHING SYSTEM MK 29 MOD 0 (CHAFFROC)			
00630	TORPEDO EQUIPMENT			
00632	TORPEDO TUBE SUBMERGED & A.W. LAUNCHERS			
00640	SMALL ARMS REPAIR PARTS			
00650	DEGAUSING EQUIPMENT			
00660	SWITCHBOARD (FIRE CONTROL)			
00672	MISCELLANEOUS LAUNCHING EQUIPMENT			

	Ordnance (Numerical)	APL (Con't)	Numbering	System
00680	OPTICAL EQUIPMENT			
00703	SHRIKE MISSILE EQUIPMENT			
00704	SHRIKE MISSILE EQUIPMENT			
00713	SIDEWINDER MISSILE EQUIPMENT			
00714	SIDEWINDER MISSILE EQUIP, MISSILE SUP ONLY			
00717	MISSILE ARM			
00723	SPARROW MISSILE EQUIPMENT			
00724	SPARROW MISSILE EQUIPMENT, MISSILE SUP ONLY			
00733	BULLPUP MISSILE EQUIPMENT, MISSILE SUP ONLY			
00734	BULLPUP MISSILE EQUIPMENT, MISSILE SUP ONLY			
00740	WALLEYE WEAPON SYSTEM			
00745	AVIATION ORDNANCE EQUIP -M16 GUN			
00750	STANDARD ARM MISSILE			
00760	PHOENIX MISSILE EQUIP, MISSILE SUP ONLY			
00775	AVORD EQUIPMENT, TRAINING COMMANDS			
00785	GUN 20 MM 3			
00795	GUN 20 MM M3 W/ELEC TRIG - AVORD EQUIP, AVCAL LIST			
00810	MINES			

2. APL EQUIPMENT CATEGORY ORDNANCE (ALPHABETICAL)

ASROC FIRE CONTROL EQUIPMENT	00500
ASROC LAUNCHING EQUIPMENT	00502
ASROC MISSILE EQUIPMENT	00503
AVIATION ORDNANCE EQUIPMENT - M16 GUN	00745
AVORD EQUIPMENT, TRAINING COMMANDS	00775
BULLPUP MISSILE EQUIPMENT, MISSILE SUP ONLY	00733

APL Equipment Category Ordnance (Alpha)	(Con't)
BULLPUP MISSILE EQUIPMENT, MISSILE SUP ONLY	00734
DEGAUSING EQUIPMENT	00650
FIRE CONTROL EQUIPMENT	00621
FIRE CONTROL MK 48 CAPABILITY	00512
FIRE CONTROL MK 48 CAPABILITY	00513
FIRE CONTROL MK 48 CAPABILITY	00514
FIRE CONTROL MK 48 CAPABILITY	00515
FIRE CONTROL MK 48 CAPABILITY	00516
FIRE CONTROL MK 48 CAPABILITY	00520
FIRE CONTROL MK 48 CAPABILITY	00521
FUEL GEILING UNIT HIG-10	00282
GMLS MK 25 MODS 0 BPDSMS	00622
GUN GAUZBA	00250
GUN MOUNT, 5"/54 MK 42 MOD 9	00603
GUN MOUNT, 5"/54 MK 45 MOD 0	00604
GUN MOUNTS ROCKET LAUNCHER MK 108	00602
GUN M60C	00230
GUN M60D	00231
GUN POD MK 4	00200
GUN XH 197	00251
GUN 20 MM3	00785
GUN 20 MM3 W/ELECTRIC-AVORD EQUIP, AVCAL LIST	00795
LAUNCHER XH129	00260
LAUNCHING SYS MK 29 MOD 0 (CHAFFROC)	00623
MINES	00810
MISCELLANEOUS LAUNCHING EQUIPMENT	00672
MISCELLANEOUS LAUNCHING EQUIPMENT AND TORPEDO CONTAINERS	00492
MISSILE ARM	00717
MK 12 GUN	00210
MK 61 AI GUN	00220
OPTICAL EQUIPMENT	00680
PHOENIX MISSILE EQUIP, MISSILE SUP ONLY	00760

APL Equipment Category Ordnance (Alpha)	(Con't)
POD GPUZA	00270
POD GUN SUU/1 1A/A	00215
PROJECTORS, DEPTH CHARGES, MINES	00610
SHRIKE MISSILE EQUIPMENT	00703
SHRIKE MISSILE EQUIPMENT	00704
SIDEWINDER MISSILE EQUIPMENT	00713
SIDEWINDER MISSILE EQUIPMENT, MISSILE SUP ONLY	00714
SMALL ARMS REPAIR PARTS	00640
SPARROW MISSILE EQUIPMENT	00723
SPARROW MISSILE EQUIPMENT, MISSILE SUP ONLY	00724
STANDARD ARM MISSILE	00750
STANDARD MISSILE	00401
SUBROC FIRE CONTROL EQUIPMENT	00511
SUU 40 FLARE DISPENSER	00281
SUU 44A FLARE DISPENSER	00250
SWITCHBOARDS (FIRE CONTROL)	00660
TALOS LAUNCHING EQUIPMENT	00422
TALOS LAUNCHING EQUIPMENT	00423
TALOS MISSILE EQUIP, GUIDED MISSILE SUP ONLY	00424
TARTAR LAUNCHING EQUIPMENT	00402
TARTAR MISSILE EQUIPMENT	00403
TARTAR MISSILE EQUIP, GUIDED MISSILE SUP ONLY	00404
TELEMETERING SETS	00575
TERRIER LAUNCHING EQUIPMENT	00412
TERRIER MISSILE EQUIPMENT	00413
TERRIER MISSILE EQUIP, GUIDED MISSILE SUP ONLY	00414
TEST EQUIPMENT MK 48 CAPABILITY	00522
TORPEDO EQUIPMENT	00630

APL Equipment Category Ordnance (Alpha)

TORPEDO TUBE SUBMERGER & A. W. 00632

LAUNCHERS

WALLEYE WEAPON SYSTEM 00740

APPENDIX B

LIST OF ACRONYMS

2M/MTR	Miniature/Microminiature/Modular Test and Repair	AIS	Automated Information System
3-M	Maintenance, Material, and Management	AIT	Alteration Installation Team
AAD	Allowance Appendix Documentation	ALRE	Aircraft Launch and Recovery Equipment
AAP	Allowance Appendix Page	AMCMAR	Automated Monthly COSAL Maintenance Action Report
ACIM	Availability Centered Inventory Model		
ACIP	Automated COSAL Improvement Program	ANC	Allowance Note Code
ACL	Allowance Components List	Ao	Operation Availability (Computation)
ACR	Allowance Change Request	AOI	Area of Interest
ACR-F	Allowance Change Request - Fixed	AOR	Allowance Override
ADC	Allowance Derivation Code	APA	Appropriation Purchase Account
AEDA	Ammunition, Explosive and Dangerous Articles	APL	Allowance Parts List
AEL	Allowance Equipage List	AQ	Allowance Quantity
AEL ID	Allowance Equipage List Identification Number	AR	As Required
AFC	Allowance Factor Code	ARF	Application Replacement Factor
AILSIN	Automated Integrated Language System Identification Number	ASC	Allowance Support Code
AINAC	Application/Identification Number Activity	ASG	Afloat Shopping Guide

ASI	Automated Shore Interface	CCI	Controlled Cryptographic Item
AT	Allowance Type Code	CCL	Commerce Control List
ATAC	Advance Traceability and Control	CCR	Configuration Change Report
AVCAL	Aviation Consolidated Allowance Listing	CD	Compact Disk
AVCM	Aviation Consolidated Allowance List	CDE	Central Data Exchange
AVORD	Aviation Ordnance	CDM	Configuration Data Manager
		CDMD-OA	Configuration Data Manager Database Open Architecture
BC	Basic/Change	CD-ROM	Compact Disk - Read Only Memory
BH	Boat Haven	CEEI	Major End Item
BII	Basic Issue Item	CESE	Civil Engineering Support Equipment
BRF	Best Replacement Factor		
		CIA	COSAL In Access
		CLF	Combat Logistic Force
CAGE	Commercial And Government Entity		
CALMS	Combined Allowances For Logistics Maintenance and Support	CNO	Chief of Naval Operations
CASREP	Casualty Report	COG	Cognizance Code or
CBM	Condition Based Maintenance		Cognizance Symbol
CCF	Component Characteristic File or	COH	Complex Overhaul
	Configuration Change Form (OPNAV 4790/CK)	COMSEC-DCRP	Communications Security Design Control Repair Parts

COS	COSAL File	DSAM	Defense Security Assistance Management
COSAL	Coordinated Shipboard Allowance List	DSP	Designated Support Point
COSBAL	Coordinated Shorebase Allowance List	DTO	Direct Turnover
CP	Carrying Point (Source of Supply)		
CRF	Cross Reference File	EAR	Export Administration Regulations
CSN	Circuit Symbol Number	EC	Engineering Change
CTC	COSAL Type Code	ECP	Engineering Change Proposal
CUST	Custody Code	EDD	Estimated Delivery Date
CU&MM	COSAL Use and Maintenance Manual	EIC	Equipment Identification Code
		ELEX	Electronics
		EM	Electromagnetic
DAPS	Defense Automated Printing Service or Defense Automation and Production Service	EOD	Explosive Ordnance Disposal
		EQU	Equipment File
DCRP	Design Control Repair Parts	EQUIP/COMP MEC	Equipment/Component Military Essentiality Code
DEMIL	Demilitarization		
DERIV	Derivation	ESD	Electrostatic Discharge
DLA	Defense Logistics Agency	ESDS	Electrostatic Discharge Sensitive
DLIS	Defense Logistics Information Service	ESS	Early Supply Support
DLR	Depot Level Repairables	ESTEPS	Enhanced Ships Technical Publication System
DOD	Department of Defense		
DOP	Designated Overhaul Point		
DRMO	Defense Reutilization Marketing Office	FAB	Fabricate

FBMWS	Fleet Ballistic Missile Weapon Systems	GDAPL	General Distribution APL/AEL Bank
FC	Field Change	GPETE	General Purpose Electronic Test Equipment
FCFBR	Fleet COSAL Feedback Report	GSA	General Services Administration
FCS	Federal Catalog System	GSE	Ground Support Equipment
FEDLOG	Federal Logistics Data	GUCL	General Use Consumable List
FGC	Functional Group Code	GUI	Graphical User Interface
FIC	FLSIP Insurance Cutpoint		
FILDR	Federal Item Logistics Data Record		
FIR	Functional Item Replacement		
FLR	Field Level Repairables	HCC	Hazard Characteristic Code
FLSIP	Fleet Logistics Support Improvement Program	HM&E	Hull, Mechanical, & Electrical
FMPMIS	Fleet Modernization Program Management Information System	HMIRS	Hazardous Material Information Resource System
FMS	Foreign Military Sales	HMIS	Hazardous Material Information System
FOSAT	Fitting Out Supply Assistance Team	HOE	Hull, Mechanical and Electrical, Ordnance, and Electronic
FSC	Federal Supply Classification	HSC	Hardware Systems Command or Hierarchical Structure Code
FSCM	Federal Supply Code For Manufacturers (now CAGE)		
FSN	Federal Stock Number		

IC/DV	Import Certification and Delivery Verification	LIRSH	List of Items Requiring Special Handling
ICP	Inventory Control Point	LSA	Logistics Support Analysis
IL	Identification List	LSSC	Logistic Support Status Code
ILS	Integrated Logistic Subsystem or Integrated Logistic Support		
IMA	Intermediate Maintenance Activity	MACALT	Machine Alteration
IMEC	Item Military Essentiality Code	MAM	Maintenance Assistance Module
IOL	Initial Outfitting List	MCC	Mission Criticality Code or
IPB	Illustrated Parts Breakdown		Material Control Code
IRP	Interim Repair Parts (Kit)	MCRL	Master Cross Reference List (Microfiche)
I&S	Interchangeability and Substitutability	MDS	Maintenance Data Subsystem
ISEA	In-Service Engineering Agent	MEC	Military Essentiality Code
ISL	Integrated Stock List	MHE	Material Handling Equipment
ITP	Index of Technical Publications	MIAPL	Master Index of APLs/AELs
		MIL ESS	Military Essentiality
JCEC	Joint Communications Electronic Committee	MIP	Maintenance Index Page
		ML-C	Management List-Consolidated
		MLI	Munitions List Item
LESA	Logistics Element Support Activities	ML-N	Management List - Navy
LICN	Local Item Control Number	MOD-FLSIP	Modified Fleet Logistics Support Improvement Program (FLSIP)

MRC	Maintenance Requirement Card	NDI	Non-Developmental Item
MRIL	Master Repairable Item List	NHA	Next Higher Assembly
MRMS	Maintenance Resource Management System	NICN	Navy Item Control Number
MRU	Minimum Replacement Unit	NIIN	National Item Identification Number
MSC	Military Sealift Command	NIS	Not in Stock
MSDS	Material Safety Data Sheet	NLL	Navy Logistic Library
		NNRP	Navy Nuclear Reactor Plant
		NPFC	Navy Publications and Forms Directorate
NATO	North Atlantic Treaty Organization	NRFI	Not Ready for Issue
NAVAIR	Naval Air System Command	NRP	Nuclear Reactor Plant or Nuclear Reactor Programs
NAVFAC	Naval Facilities Engineering Command	NSA	Navy Stock Account or Naval Supervising Activity
NAVICP-M	Naval Inventory Control Point-Mechanicsburg		
NAVICP-P	Naval Inventory Control Point-Philadelphia	NSDSA	Naval Sea Data Support Activity
NAVMASSO	Navy Management Systems Support Office	NSF	Navy Stock Fund
NAVMED	Naval Medical Command	NSLC	Naval Sea Logistics Center
NAVORD	Naval Ordnance	NSLC- DETPAC	Naval Sea Logistics Center - Detachment Pacific
NAVSEA	Naval Sea Systems Command	NSN	National Stock Number
NAVSISA	Navy Supply Information Systems Activity	NSTM	Naval Ships Technical Manual
NAVSUP	Naval Supply Systems Command	NSWCCD- SSES	Naval Surface Warfare Center Carderock Division - Ships System Engineering Station
NC	Not Carried	NTCSS	Naval Tactical Command Support System
NCB	National Codification Bureau	NW	Nuclear Weapons

OBRP	On Board Repair Part	PARTMEC	Part Military Essentiality Code
OLA	Optical Landing Aids	PDLR	Progressive Depot Level Repairable
OMMS	Organizational Maintenance Management System		
OMMS-NG	Organizational Maintenance Management System - Next Generation	PEETE	Portable Electrical/Electronic Test Equipment
OPNAV	Office of the Chief of Naval Operations		
OPTAR	Operating Target	PMR	Planned Maintenance Requirement
ORD	Ordnance	PMS	Planned Maintenance System or Preventive Maintenance System
ORDALT	Ordnance Alterations (OA)		
ORM	Other Regulated Materials		
OSI	Operating Space Item	P/N	Part Number
OSISL	Operational Support Inventory Stock List	P-NICN	Permanent - Navy Item Control Number
OTPS	Operational Test Program Set	POP	Population of Item On Board Ship
		PSCN	Permanent System Control Number
PAFOS	Provisioning Allowance and Fitting Out Support	PSF	Price Sensitive FLSIP
PAL	Preliminary Allowance List	PTD	Provisioning Technical Documentation

“Q” COSAL	Nuclear Reactor Plant COSAL	SAC	Service Application Code
QTY	Quantity	SAIL	Ship Armament Installation List
		SC	Security Classification or Supply Source Code
		SCAT	Sub Category (Electronics)
		SCC	Security Classification Code
RAD	Revised Alternative Dataflow	SCLSIS	Ship Configuration and Logistics Support Information System
RBS	Readiness Based Sparing	SCM	Ship Critical Material
RFI	Ready For Issue	SCRF	Ship Class Replacement Factor
RIC	Repairable Identification Code	SEF	Ships Equipment File
RIN	Record Identification Number	SEL	Select
RMC	Regional Maintenance Center	SF	Standard Form
ROH	Regular Overhaul	SFM	Supply and Financial Management Subsystem or Supply Financial Module
RPCCR	Reactor Plant Configuration Change Report	SHF	Ships History File
RR	Requisition Restriction	SHIPALT	Ship Alteration (SA)
RSN	Reference Symbol Number	SHML	Ship Hazardous Material List
RSS	Ready Service Spares	SIGINTDCRP	Sigint Design Control Repair Part
R SUPPLY	Relational Supply System	SL	Shelf Life (Code)
		SLA	Shelf Life Action (Code)

SLI	Strategic List Item	SOAPL	Summary of Allowance Parts/Equipage/Components List
		S/O/S	SHIPALT/ORDALT/SPALT
SMC	Special Material Content Code	SPALT	Special Project Alteration
SME	Significant Military Equipment		
SMIC	Special Material Identification Code	SPAWAR	Space and Naval Warfare Systems Command
		SPETE	Special Purpose Electronic Test Equipment
SM&R	Source, Maintenance, and Recoverability (Code)	SPETERL	Ship Portable Electrical/Electronic Test Equipment Requirement List
SMS	Ship Missile System	SPS	Statement of Prior Submission
SNAP	Shipboard Nontactical Automated Data Processing Program	SRA	Selected Restricted Availability
SNAP I	Shipboard Nontactical Automated Data Processing Program I	SRF	Stock Record File
SNAP II	Shipboard Nontactical Automated Data Processing Program II	SRI	Storeroom Item
SNEP	Saudi Naval Expansion Program	SSP	Strategic Systems Program
SNF	Supplemental Nomenclature File	SSPO	Strategic System Project Office
NSL	Stock Number Sequence List		

SSR	Ship Selected Records or Supply Support Request	TMMA	Technical Manual Maintenance Activity
SUBSAFE	Submarine Safety	T-NICN	Temporary - Navy Item Control Number
SVL	Ship Value List	TOB	Technical Operating Budget
SW	Strategic Weapons	TOR	Technical Override
SWOP	Special Weapons Ordnance Publication	TSA	Technical Support Activity
SWS	Strategic Weapon Systems	TSC	Trade Security Controls
SYSCOM	System Command	T-SHML	Type Specific Ships Hazardous Material List
		TSS	Type of Storage Space
TCC	Technical Cognizance Code	TYCOM	Type Commander (TY)
TEC COG	Technical Cognizance Code	U/I	Unit of Issue
TEMPT	Test Equipment, Material, Parts, Tools	UIC	Unit Identification Code
TFBR	Technical Feedback Report	UR	Usage Rate
TFR	Trouble Failure Report	USN	United States Navy
TIR	Transaction Item Reporting	VLA	Visual Landing Aids
TLL	Tender Load List	WC	Work Center
TM	Technical Manual	WPNSTA	Naval Weapons Station
TMDER	Technical Manual Deficiency/Evaluation Report	WSF	Weapon Systems File
		XRF	Cross Reference File

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DIRECTIVES

1. The following outside directives, although not specifically mentioned in the Manual, should be on board for procedural guidance.

<u>DIRECTIVE</u>	<u>SUBJECT</u>
1. OPNAVINST 4790.4	Ships 3-M (Maintenance, Material, Management) Manual
2. OPNAVINST 4441.12	Retail Supply Support of Naval Activities and Operating Forces
3. NAVSUP P-485	Afloat Supply Procedures
4. NAVICPINST 4440.450	Allowance Change Request - Fixed
5. NAVSUPINST 4441.28	Coordinated Shorebased Allowance List (COSBAL); policy and procedures for approval, funding, and requisitioning for support
6. NAVICPINST 4441.175	COSBAL Management
7. NWP (Naval Warfare Publication) 1-03.1	CASREP Message formats
8. NAVSEA T9066-AAMAN-010	Navy Outfitting Program for Active and Reserve Ships
9. NAVSEA Technical Specs. 9090-700	Ship Configuration and Logistic Support Information System