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NOT MEASUREMENT  
SENSITIVE

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# MILITARY STANDARD

## STANDARDIZATION PROGRAM

### REQUIREMENTS

### FOR DEFENSE ACQUISITIONS



AMSC N4895

FSC GDRQ

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MIL-STD-680B

FOREWORD

1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this standard should be addressed to: Commanding Officer, Naval Air Engineering Center, Code 5322, Lakehurst, NJ 08733-5100, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this standard or by letter.

3. In furtherance of the Defense Standardization Program, it is essential that defense manufacturers exercise standardization discipline throughout each acquisition phase.

To assure that this interest is addressed, a standardization program is to be established which will reflect the positive actions to be taken during the contract to:

- a. Provide for common usage of equipment, components, parts and materials to promote commonality among weapon systems.
- b. Maximize the use of Non-Development Items (NDIs), standard parts, materials and processes to lower cost, reduce down-time, facilitate interchangeability and promote commonality.
- c. Maximize repetitive use of existing reliable items.
- d. Maximize use of common publications, manuals, training aids and materials.
- e. Provide the documentation for future reuse of the innovations which are initially used under the contract.

Standardization program objectives will vary from contract to contract because of the need for flexibility in implementing the standardization concepts. The standardization program shall use those standardization techniques which are most suitable to the intended contractual service or product. The conditions under which options will be exercised are to be described in the solicitation or contract, with emphasis on manufacturer submittal of cost effective recommendations of standardization elements. This standard neither requires nor prohibits the establishment of an organizational entity solely for control of standardization.

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### 1. SCOPE

1.1 Scope. This standard establishes requirements for planning and executing standardization programs in defense acquisitions. It shall be employed to develop a standardization program for new design or modification of weapons, weapon systems and equipment during the program initiation phase. The procuring activity shall use acquisition streamlining techniques for tailoring the requirements to assure that only essential requirements are contractually applied. Specifying MIL-STD-680 will not in itself result in the preparation of a standardization program plan as required by Task 201 of this standard. To invoke a requirement, the procuring activity must explicitly cite the Task as a requirement in the solicitation or contract, i.e., MIL-STD-680B, Task 201, Standardization Program Plan.

1.2 Standardization program tasks. Standardization tasks are numbered sequentially as they are introduced in this standard with the first task being numbered 101.

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## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

## STANDARDS

## MILITARY

MIL-STD-280	Definition of Item Levels, Item Exchangeability, Models, and Related Terms
MIL-STD-965	Parts Control Program
MIL-STD-970	Standards and Specifications, Order of Preference for the Selection of

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document shall take precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.3 Streamlining. This document has been reviewed for conformance to the provisions of "streamlining." The documents listed in Section 2 and Appendix A are considered necessary to the application of MIL-STD-680 in acquisition, and are intended to supplement MIL-STD-680 (see 6.9). All other documents referenced through tiering are for guidance and information. This document is a streamlined document.

2.4 Source of documents.

2.4.1 Government specifications, standards and handbooks. Copies of the referenced federal and military specifications, standards and handbooks are available from the Department of Defense Single Stock Point, Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5099. For specific acquisition functions, these documents should be obtained from the contracting activity or as directed by the contracting activity.

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## 3. DEFINITIONS

3.1 Definitions. For the purpose of this standard, the definitions of MIL-STD-280 and the following apply.

3.1.1 Article. Weapon system, major system or equipment being acquired under prime contract.

3.1.2 Assembly. A number of parts or subassemblies or any combination thereof joined together to perform a specific function and capable of disassembly (examples: fan assembly, audio frequency amplifier).

3.1.3 Components/equipment. Repairable assemblies which currently require repair parts support or will require it when introduced into the Department of Defense inventory.

3.1.4 Non-Development Item (NDI). A broad generic term that covers material available from a wide variety of sources with little or no development effort required by the government. NDIs include:

- . Material obtained from a domestic or foreign commercial market place.
- . Material already developed and in use by other DOD components or government agencies.
- . Material already developed by foreign governments which can be supplied to the DOD components in accordance with mutual defense cooperation agreements and Federal acquisition regulations and supplements thereto.

NOTE: "Commercial (off-the-shelf) items" and "Non-Developmental Items" are not synonymous. Commercial off-the-shelf items are only one category of what the DOD considers NDIs.

3.1.5 Part. One piece, or two or more pieces joined together which are not normally subjected to disassembly without destruction or impairment of designed use (examples: outer front wheel bearing of 3/4 ton truck, electron tube, carbon film, composition resistor, screw, gear, capacitor, audio transformer, milling cutter).

3.1.6 Weapon system or major system. The combination of items that will function together to produce the capabilities required to fulfill a mission need. Major system acquisition programs are those programs that:

- a. are directed at and critical to fulfilling an agency mission;
- b. entail the allocation of relatively large resources, and meet the major system definition of DODD 5000.1;
- c. warrant special management attention. System Programs involving an anticipated cost of \$200 million in research, development, test and evaluation (RDT&E) or \$1 billion in production are considered for designation as major system acquisitions.

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## 4. GENERAL REQUIREMENTS

4.1 Standardization program. The standardization program shall be economically planned, integrated and developed in conjunction with other engineering and logistic support planning functions. Standardization shall be given prime consideration during the performance of Logistic Support Analysis throughout all acquisition phases. Such factors as complexity of design, availability of competitive suppliers, interface with existing or future DOD systems, and logistic support shall be considered. The standardization program shall be an integral part of the design, development, testing and production processes and shall establish goals for each of these aspects. In addition, procedures shall be established to control proliferation of the types and kind of hardware/software being procured as part of or in support of the acquisition. There shall be periodic reviews and assessment of the progress in achieving the established goals to determine what program refinements are necessary. When Task 201 of this standard is cited contractually the standardization program goals and objectives shall be formally documented in a standardization program plan.

4.1.1 Management, surveillance and control. Management procedures shall be established to assure repetitive use of items and features within an equipment or system, promote commonality among systems and equipment (including support equipment), reduce the incidence of repetitive design of similar items, prevent unnecessary items from entering the Department of Defense inventory, and enhance the ability of the military departments to provide cross-service support.

The management procedures shall also be documented so as to verify or demonstrate that specific requirements are or have been performed. Compliance shall be demonstrated at the technical interchange/standardization program reviews. Formal reviews and assessments of the standardization program shall address both systems and subsystem (AVIONICS and NONAVIONICS) standardization and parts control as established by the contract.

4.1.2 Suppliers/vendors efforts. The standardization program shall be implemented between the prime contractor and his suppliers/vendors to assure compliance with the objectives of this standard.

4.2 Minimizing varieties. The standardization program shall have established procedures for avoiding unnecessary proliferation of the types and kinds of items being procured as part of or in support of the acquisition.



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## 5. DETAILED REQUIREMENTS

5.1 Contractual requirements for standardization program. The standardization program requirements are specified in Section 100. This section consists of three tasks. These tasks are: Task 101, Standardization Program Elements; Task 102, Management Disciplines; and Task 103, Application of Standards. Each task is a constituent of the standardization program and shall be addressed. The procuring activity may tailor each task to suit its need. Section 6, Information for Guidance Only, shall be employed as a guide by the procuring activity when generating contractual requirements. In response to an RFP or solicitation, the standardization program objectives shall be documented by the contractor in the form of a standardization program plan. This plan will be reviewed and evaluated by the procuring activity to ensure that it meets the requirements set forth. Subsequent to contract award, the approved plan will be the basis of measuring compliance with the plan objectives.

5.1.1 Standardization reviews. Standardization program reviews will be scheduled periodically during Concept Demonstration/Validation (CD/V), Full Scale Development (FSD), and production phases at the discretion of the procuring activity (see paragraph 4.1.1). The types of information to be provided at program review are:

- a. Narrative of Standardization Program overview.
- b. List of NDIs selected for use from procuring activity Preferred Items List (PIL) (list shall exclude items listed on the Master Government Furnished Equipment List (MGFEL)).
- c. Documentation to support in-house standardization decisions and actions which would increase commonality among systems and equipment to reduce logistic and life cycle cost.
- d. A list of NDIs (Commercial Off-the-Shelf Items) which were used in lieu of Government military specifications or standard items (the list shall provide cross-reference to the National Stock Number (NSN) or part number of the Government item which was replaced).
- e. Parts control requirements in accordance with the contract and MIL-STD-965.

5.2 Program plan. The standardization program plan requirements are specified in Task 201. The plan shall describe the contractor's procedures and goals for performing the tasks that apply to the standardization program. After award of contract and approval of the standardization program plan, the contractor may revise its original standardization plan for the purpose of updating procedures and goals of the hardware levels or acquisition phases. Regardless of the form of contract, revisions shall mandate the procuring activity's approval.

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5.3 Accomplishment report. The standardization accomplishment report requirements are described in Task 301. The procuring activity shall determine the need and time interval for accomplishment reports depending on the scope of the contract. All reports shall demonstrate constructive efforts on the part of the contractor. The report shall identify accomplishments and anticipated programs, up-to-date processes or procedures, component/equipment items, parts selected and their previous applications, major design changes impacting standardization and life cycle cost.

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SECTION 100  
PROGRAM REQUIREMENTS

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## TASK 101

## STANDARDIZATION PROGRAM ELEMENTS

101.1 Purpose. To describe the various standardization program elements to be employed. The program shall establish and document procedures for identification and control of various elements. The parts control program in accordance with MIL-STD-965, "Parts Control Program," shall be applied and coordinated with other standardization elements and objectives of this standard.

101.2 Task description.

101.2.1 The program elements shall identify and control component/equipment (C/E) items, parts, materials and processes (PMP) incorporated into and in support of the contract article to assure the fewest practicable number of different C/E and PMP items. The standardization program elements shall also provide for:

- a. Cost effective use of the procuring activity's approved specifications, standards, C/E and PMP in design and production.
- b. Cost effective reuse of existing, suitable C/E items already being supported by the DOD.
- c. Inter and intrasystem standardization of C/E and PMP items.
- d. Using available data to preclude the use in new designs of limited application and poor performance C/E and PMP items.

101.2.2 Unless otherwise specified by the procuring activity, the order of precedence for the selection of C/E items meeting required specifications shall be as follows:

- a. C/E items established in the DOD inventory which were acquired under previous contracts for active systems and equipment, or lists of C/E items identified by the procuring activity for use in weapons, weapon systems and equipment in development.
- b. As for some of the other C/E items which are supportable to some degree by repair parts already in the DOD inventory, preference shall be given to those C/E items requiring introduction of the least number of different new parts to the DOD inventory.

101.2.3 The order of precedence for the selection of PMP shall be as specified by the procuring activity.

101.2.4 The tools and support equipment required for test, maintenance, assembly, servicing, handling, etc., shall be controlled in the same manner as in 101.2.2. In addition, the program shall:

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- a. Address commonality and multiapplication of the various tools and support equipment.
- b. Use current government tools and support equipments in preference to the introduction of new tools and support equipment.

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TASK 102

MANAGEMENT DISCIPLINES

102.1 Purpose. To assure repetitive use of items and decrease the incidence of repetitive design and proliferation of similar items from entering the Department of Defense inventory.

102.2 Task description.

102.2.1 The standardization program shall establish management disciplines to:

- a. Establish sufficient controls for integrating and coordinating all aspects of the standardization program to avoid duplication of effort, unnecessary data and to estimate and track program cost and cost avoidances (life cycle).
- b. Establish procedures that effect standardization continuously throughout contract phases.
- c. Identify each task to be performed, procedures to be employed in performing the task and the method of monitoring task performance.
- d. Establish procedures and methods to be used in evaluating the effectiveness of the program.
- e. Inform all design, development, acquisition, production, logistics and associated personnel of standardization requirements and the application of these requirements to their areas of responsibility.
- f. Impose the requirements of this standard on suppliers/vendors, and on the contractor to demonstrate their efforts at the standardization program reviews.

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### TASK 103

#### APPLICATION OF STANDARDS

103.1 Purpose. To identify and describe the various requirements that shall be considered during identification, selection and preparation of specifications, standards, drawings and other documents.

#### 103.2 Task description.

103.2.1 The contractor shall have unlimited freedom in achieving the goal of Task 103, however, the procuring activity shall ensure that the level of conformance adheres to the following:

- a. Identify specifications, standards, drawings and other documents that are to be used in the program.
- b. Provide for control and accessibility of these data (a) to design, production, test and quality control personnel for purpose of repetitive use of established methods, parts, materials, processes and features in the contract item.
- c. Provide for selection of standard C/E parts, processes, features and materials from specifications, standards, handbooks or Government furnished data recognized by the contractor and the procuring activity. Unless otherwise specified, the order of preference for the selection of documents shall be in accordance with MIL-STD-970.
- d. Control the preparation of new documents in order to prevent unnecessary reassignments of identifications and descriptions to existing satisfactory items, processes, features and practices and for conformance to the specifications, standards and drawings preparation requirements invoked by the contract.
- e. Maintain in-house procedures for the control of changes to existing specifications, drawings and standards.

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TASK 201

STANDARDIZATION PROGRAM PLAN

201.1 Purpose. To identify the standardization procedures and goals of the contractor as they apply to a specific contract; which, once accepted by the procuring activity and incorporated into the contract, will become the basis for contractual compliance.

201.2 Task description.

201.2.1 The plan shall address the standardization program elements (Task 101) and also include the following:

- a. Specifying where practicable a range of characteristics of functions (electrical voltages, EMI, software language), parts, materials, processes, software, tests, etc., to allow flexibility to achieve standardization by trade-off.
- b. Identifying the organization and personnel responsible for managing the overall standardization program and a clear definition of their responsibility, authority and functions.
- c. In case of any changes in plan, prior to seeking approval the manufacturer shall evaluate the impact of the proposed change in terms of proliferation of parts, increased maintenance requirements and changes in the training and instructions for operating personnel.



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TASK 301

STANDARDIZATION ACCOMPLISHMENT REPORT

301.1 Purpose. To allow the Government to monitor standardization goals and achievements during CD/V and FSD phases. The accomplishment report shall describe the various standardization actions and decisions undertaken by the contractor to maximize system commonality.

301.2 Task description.

301.2.1 The report shall include the following:

- a. Percentage of equipment commonality of all new weapon systems to all existing weapon systems.
- b. Number of items obtained from the Government inventory that will be used as part of the system.
- c. Contractor's recommendation to further enhance standardization.
- d. Documentation to support in-house standardization decisions and actions which would increase commonality among systems and equipment or reduce logistic and life cycle cost.
- e. A list of non-development items that have been modified which were used in lieu of Government specifications or standard items (list should also provide a cross reference to the National Stock Number (NSN) or Part number (P/N) of the Government item which was replaced).
- f. Identification of specifications, standards and drawings and the justification for their selection.
- g. Results of supplier/vendor standardization efforts.
- h. Estimated cost savings or cost avoidance information resulting from any standardization action or decision.

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## 6. INFORMATION FOR GUIDANCE ONLY

6.1 Intended use. Invoking this standard requires the procuring activity to tailor the requirements to ensure that only the minimum requirements necessary are contractually applied.

6.2 Issue of DODISS. When this standard is used in acquisition, the applicable issue of the DODISS must be cited in the solicitation.

6.3 Tailoring requirements. Each provision of this standard should be reviewed to determine the extent of applicability. Tailoring of requirements may take the form of additions or alterations to the statements mentioned herein to adapt the requirements to specific system characteristics, procuring activity options, contractual structure or acquisition phase. The tailoring of standardization program requirements are specified in the contractual provisions to include input to the statement of work, Contract Data Requirement Lists (CDRL), DD Form 1423 and other contractual means.

6.4 Order of precedence. The following options are structured into this standard, but when invoked require the procuring activity to supply additional details and guidance in the solicitation or contract. In addition, the procuring activity shall specify design selection criteria and lists defining acceptable inventory items for both component/equipment items, parts, material, processes, tools, and support equipment (see Appendix A).

1. Order of precedence for component/equipment items selection, if other than that required in Task 101 (101.2.2).
2. Order of precedence for the selection of documents, if other than that required in Task 103.
3. Order of precedence for the selection of parts, materials and processes.

6.5 Duplication of effort. It is obligatory for the procuring activity to review the contractual requirements to avoid duplication of effort among other program efforts such as safety, maintainability, human engineering, test and evaluation, survivability and vulnerability, and integrated logistics support. When the contract cites duplicate standardization requirements imposed by different design disciplines the task and data should be accomplished only one time and included in the standardization program plan.

6.6 Design selection criteria. To the degree possible, the contractor shall specify design selection criteria and lists defining acceptable inventory items for both component/equipment items, parts, materials and processes, tools and support equipment.

6.7 Consideration of data requirements. The following Data Item Descriptions (DIDs) must be listed, as applicable, on the Contract Data Requirement List (DD 1423) when this standard is applied on a contract, in order to obtain the data, except where DOD FAR Supplement 27.475-1 exempts the requirement for a DD 1423.

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<u>Reference Paragraph</u>	<u>DID Number</u>	<u>Task Number</u>	<u>DID Title</u>
5.2	DI-GDRQ-8917	201	Standardization Program Plan
5.3	DI-GDRQ-8941	301	Standardization Accomplishment Report

The above Data Item Descriptions (DID) were those cleared as of the date of this standard. The current issue of DOD-5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL), must be researched to ensure that only current cleared DID's are cited on the DD 1423.

#### 6.8 Subject term (key word) listing.

Commonality  
 Components/equipment  
 Accomplishment report  
 Weapon system

6.9 Streamlining. The contractual applicability of the documents referenced herein shall be limited to only those documents listed in Section 2 (first tier documents). All other documents referenced through tiering are for guidance and information.

6.10 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

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## APPENDIX A (NAVY)

## DESIGN CONTROL AND ITEM SELECTION DOCUMENTS

## 10. GENERAL

10.1 Scope. This appendix supplements the requirements of the basic standard by providing available documents of components/equipment for use by manufacturer/supplier during the design of weapon systems and equipment for the Department of the Navy and the peculiar requirements of specific Navy activities. The procedures for use of applicable lists are to be reflected in the standardization program plan where a plan is contractually required or required in response to a solicitation.

## 20. APPLICABLE DOCUMENTS

20.1 Government documents. The following documents form a part of this appendix to the extent specified herein.

## MILITARY STANDARDS

MIL-STD-1364	Standard General Purpose Electronic Test Equipment
MIL-STD-1378	Requirements for Employing Standard Electronic Modules

## MILITARY HANDBOOKS

MIL-HDBK-300	Technical Information File of Support Equipment
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20.1.2 Other Government documents, drawings and publications. The following other Government documents, drawings and publications form a part of this appendix to the extent specified herein.

## MILITARY PUBLICATIONS

NAVSHIP 0969-019-7000	Electrical Test Equipment Application Guide
NAVAIR 11-100-1.1	Cartridge Actuated Devices for Aircraft and Unique Aircraft Systems (CADs, CARTs and AEPs)
NAVAIR 11-100-1.3	Cartridges and Cartridge Activated Devices
NAVAIR 11-85-1	Aircrew Escape Propulsion Systems Devices, Descriptive Preparation for Use
NAVAIR 16-1-525	Avionics Preferred Common Support Equipment
NAVAIR 19-1-127	Non-Avionics Preferred Common Support Equipment

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## APPENDIX A (continued)

## MILITARY PUBLICATIONS (continued)

NAVDESL-500

NAVAIR Design Selection List of Repairable Assemblies

NAVSEA Standard Components List

## 30. DEFINITIONS (Not applicable)

## 40. GENERAL REQUIREMENTS

40.1 Design control and item selection documents. The following design control and item selection documents shall be used for selecting items prior to new development efforts.

<u>Area</u>	<u>List</u>	<u>Availability</u>
Aeronautical SE (Support Equipment)	Technical Information File of Support Equipment (MIL-HDBK-300)	Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120
Aircraft Components/Equipments	NAVAIR Design Selection List of Repairable Assemblies (NAVDESL-500) MILSTRIP Ordering No. 0533-LP-900-5555	Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120
Electrical/Electronics Test Equipment	Electrical Test Equipment Application Guide (NAVSHIPS 0969-019-7000)	Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120
Electronic Test Equipment	Standard General Purpose Electronic Test Equipment (MIL-STD-1364)	Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120
Hull, Mechanical and Electrical Components/Equipments (Ship Construction)	NAVSEA Standard Components List (SCL)	Furnished to Navy supervising activities, Shipyards and <i>shipbuilding contractors</i> (not furnished to bidders) by Naval Sea Systems Command
Preferred Avionics SE (Support Equipment) for Support of Aeronautical Systems	Avionics Preferred Common SE Publication NAVAIR 16-1-525	Naval Air Engineering Center, Code 525, Lakehurst, NJ 08733
Preferred Non-Avionics SE (Support Equipment) for Support of Aeronautical Systems	Non-Avionics Preferred Common SE Publication NAVAIR 19-1-127	Naval Air Engineering Center, Code 525, Lakehurst, NJ 08733

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## APPENDIX A (continued)

<u>Area</u>	<u>List</u>	<u>Availability</u>
Standard Electronic Modules	Requirements for Employing Standard Electronic Modules (MIL-STD-1378)	Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120
Ballistic Activation Devices	General Use Cartridges, Cartridge Actuated Devices (CADs, CARTs and AEPs) NAVAIR 11-100-1.1 NAVAIR 11-100-1.3 NAVAIR 11-85-1	Naval Air Systems Command AIR-51122 Washington, DC 20361

40.2 Selection of component/equipment items. The appropriate design control and item selection document(s) of paragraph 40.1 shall be used for the selection of C/E items either for use in or in support of the contract article. Only those items which meet the system specification and design requirements shall be used. Selection lists such as the NAVDESL-500 allows the designer to select existing inventory items by item name or National Stock Number (NSN). Other data, e.g., manufacturer part number, aircraft application, failure data, maintainability, interchangeability, etc., are given to be used as a guide when determining item selection by making a comparison of system application, environment, and interchangeability of similar items and the item needed to satisfy design requirements. Characteristic descriptive data is also given for the inventory item which further identifies the item's physical dimensions and installation requirements for compatibility with the designed physical parameters. The designer shall establish the criteria to be used in determining which factors are important for a particular equipment or system in which the item is to be used (see Task 102 and 201).

40.3 Procurement of ships, major shipboard systems, equipment and components.

40.3.1 Standardization preference clause. The manufacturer/supplier shall, in the performance of his contract, use hull, mechanical and electrical components/equipment that meet the requirements of the specifications and are listed in the NAVSEA Standard Components List (SCL). The SCL is a listing of selected components/equipment presently in the U.S. Navy fleet which are supported by Allowance Parts Lists (APL), and which are preferred and approved for installation on ships of the U.S. Navy. The SCL will normally be updated by the Government annually. The requirements of this paragraph will be implemented as specified in 40.3.1.1 through 40.3.1.3.

40.3.1.1 Solicitation. All solicitations shall include the requirement for components or equipment from sources identified on the QPL (Qualified Products List) of SCL (Standard Components List). Other sources may be solicited at the same time. Documentation shall be maintained and clearly indicate the efforts in attempting to obtain items on the SCL in a timely fashion and, as specified below, selection criteria for other equipment. Such documentation shall be made available upon request to the contracting officer or his representative.

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## APPENDIX A (continued)

40.3.1.2 Contractor bid clauses. Contractor invitations to bid may include a clause stating the following:

- a. The right is reserved to reject any bids for a particular make and model if not already in the U.S. Navy Supply System and included on the SCL.
- b. Whenever the component/equipment is already in the U.S. Navy Supply System, the bidder is requested to identify the item he proposes to deliver by Allowance Parts List (APL) number or other similar nomenclature.
- c. Each bidder should include with his bid the number of required repair parts which are not covered by a National Stock Number (NSN) or APL.
- d. If an APL is pending, cite appropriate purchase order number and Government contract number.

40.3.1.3 NAVSEA Standard Components List (SCL) exceptions. It is mandatory to furnish components/equipment selected from those on the SCL except under one or more of the following conditions:

- a. There is no component/equipment that meets the requirements of the specifications that is also on the SCL; or,
- b. There is no component/equipment on the SCL conforming to specification requirements that can be procured by the contractor by timely subcontract placement in sufficient time to meet the contractor's building schedule; or,
- c. A substitute component/equipment has received advance approval in accordance with the following procedure:

"Advance Acceptance of a Basic Design. A manufacturer, before receipt of a contract or order, may submit to the Naval Sea Systems Command for review, drawings of an item which he considers will provide a significant benefit over functionally similar but structurally different items already in the U.S. Navy Supply System. If the review establishes that the item is cost effective, an allowance parts list (APL) number would be assigned in accordance with the appropriate specification. Upon such acceptance, the manufacturer may reference the applicable APL number, or the Naval Sea Systems Command letter, in quoting on solicitations from commercial and Government activities which state, in effect "The right is reserved to reject any bids for a particular make and model if not already in the U.S. Navy Supply System. Bidders are requested to identify the item proposed by APL number or other evidence whenever the item is already in the U.S. Navy Supply System."

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## APPENDIX A (continued)

40.3.2 Life cycle costing. Optimum standardization is not always obvious. The selection process for an item to be designated as standard must consider a number of factors and trade-offs must be made between immediate short term gains and overall long term benefits. The first costs of an item can be misleading; therefore, other factors that must be considered in the overall evaluation include performance, logistics management costs, reliability, delivery time, maintenance costs, storage requirements, technical data costs, first time testing, and other factors that might affect life time costs. When use of an item, not included in the SCL, is necessary in accordance with one of the above circumstances, the cost evaluation shall be based on all pertinent life cycle factors which can be identified. The contractor shall maintain records which clearly demonstrate the life cycle costing parameters considered and the basis for the selection of specific items. As a minimum, the trade-off analysis shall include logistics management costs that will accrue to the U.S. Government as a result of introducing new repair parts into the U.S. Navy Supply System.

40.4 Manufacturers' types. Efforts shall be directed toward consolidating procurement of like performance items in order to minimize the number of different manufacturers' types used in any one system or subsystem. Even though interchangeability exists among different manufacturers' types on a performance basis, the noninterchangeability features of the individual repair parts creates a potential logistic support problem once the item is introduced into the inventory. Effort must be made to keep the number of different manufacturers' types for like performance items to an optimum minimum. Visible evidence shall clearly demonstrate that such efforts have been accomplished. Where the manufacturer was unsuccessful in his efforts, reasons shall be stated and supported by visible evidence of the efforts to obtain or to specify the use of like items.

Custodians:  
 Army - AR  
 Air Force - 10  
 Navy - AS

Preparing activity:  
 Navy - AS  
 (Project No. GDRQ-0087)

Review Activities:  
 Army - GL, AV, MI, ER, AT, CR, ME, EA, SC, AD  
 Navy - CG, MC, OS, SA, SH, TD, YD, EC, OS, D-SP, SO

User Activities:  
 Air Force - 19



# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

## INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
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**I RECOMMEND A CHANGE:**

1. DOCUMENT NUMBER  
MIL-STD-680B

2. DOCUMENT DATE (YYMMDD)  
900301

3. DOCUMENT TITLE  
STANDARDIZATION PROGRAM REQUIREMENTS FOR DEFENSE ACQUISITIONS

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

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(1) Commercial  
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(If applicable)

7. DATE SUBMITTED  
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8. PREPARING ACTIVITY

a. NAME

Mr. J. Freeman  
Systems Engineering & Standardization Dept.

b. TELEPHONE (Include Area Code)  
(1) Commercial

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(2) AUTOVON

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