

MIL-STD-680A

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SUPERSEDING

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MILITARY STANDARD

CONTRACTOR

STANDARDIZATION PROGRAM

REQUIREMENTS



AMSC - N3153

AREA - MISC

DEPARTMENT OF DEFENSE
WASHINGTON, D.C. 20301

Contractor Standardization Program Requirements.

MIL-STD-680A

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 document should be addressed to: Commanding Officer, Naval Air Engineering Center, Engineering Specifications and Standards Department (ESSD) Code 93, Lakehurst, New Jersey 08733 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FOREWORD

In furtherance of the Defense Standardization Program, it is essential that Defense contractors exercise standardization discipline through-out each acquisition phase.

One method of assuring that this interest is protected, is to establish a standardization program which will reflect the positive actions to be taken during the contract to:

- a. maximize the use of standard parts, materials, and processes to lower cost, to reduce down-time and to facilitate interchangeability. The plan should specify 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. maximize repetitive use of features and items;
- c. maximize use of common publications, manuals, training aids and materials;
- d. provide the documentation for future reuse of the innovations which are initially used under the contract; and
- e. provide for common usage of equipment, parts and materials to promote commonality among weapon systems.

Standardization program objectives will vary from contract to contract because of the need for flexibility in implementing the standardization concept. The standardization program may 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 RFP or contract by the procuring activity, with emphasis on contractor submittal of cost effective recommendations of standardization elements. This standard neither requires nor prohibits the contractor's establishment of an organizational entity solely for control of standardization.

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1. SCOPE

1.1 Purpose. The purpose of this standard is to establish requirements for planning and executing standardization programs by Department of Defense contractors.

1.2 Application. This standard is to be used by contractors to develop a Standardization Program for weapons, weapon systems, and equipment development. The acquiring activity shall tailor the requirements to assure that only essential requirements are contractually applied. This standard shall be tailored so that one of the following apply:

- a. Basic standardization program requirements with no program plan required for submittal.
- b. Basic standardization program requirements with a program plan submitted after contract award.
- c. Basic standardization program requirements with a program plan submitted as part of the RFP.

1.2.1 Method of reference. Specifying MIL-STD-680 will not in itself result in the preparation of a standardization program plan as required by paragraph 5.3 and related subparagraphs 5.3.1 and 5.3.2. To invoke these requirements, the acquiring activity must explicitly cite paragraph 5.3 as a requirement in the RFP or contract, i.e., MIL-STD-680A, paragraphs 5.3, 5.3.1, and 5.3.2, Standardization Program Plan.

1.3 Intended use. This standard is intended to be cited in an RFP or contract for development of systems or equipment.

2. REFERENCED DOCUMENTS

2.1 Issues of documents. The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this standard to the extent specified herein.

STANDARDS

Military

- MIL-STD-143 - Standards and Specifications, Order of Precedence for the Selection of
- MIL-STD-280 - Definition of Item Levels, Item Exchangeability, Models, and Related Terms
- MIL-STD-490 - Specification Practices
- MIL-STD-965 - Parts Control Program
- MIL-STD-1364 - Standard General Purpose Electronic Test Equipment
- MIL-STD-1378 - Requirements for Employing Standard Electronic Modules

HANDBOOKS

Military

- MIL-HDBK-300 - Technical Information File of Support Equipment

PUBLICATIONS

Military

- NAVAIR 16-1-525 - Avionics Preferred Support Equipment
- NAVAIR 19-1-127 - Preferred List of Common Support Equipment
- NAVDESL-500 - NAVAIR Design Selection List of Repairable Assemblies

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. DEFINITIONS

3.1 Definitions used in this standard. For the purpose of this Standard, the following definitions, supplemented by those in MIL-STD-280, apply.

3.1.1 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.)

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

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

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

3.1.5 Weapon system or major system. The combination of elements 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
- c. warrant special management attention. System Programs involving an anticipated cost of \$75 million in research, development, test and evaluation (RDT & E), or \$300 million in production are considered for designation as major system acquisitions.

4. GENERAL REQUIREMENTS

4.1 Contractor's standardization program. The contractor shall employ a standardization program which is economically planned, integrated, and developed in conjunction with other engineering and logistic support planning functions. The program shall be managed as one aspect of the contractor's system engineering effort. The contractor's program shall consider such factors as complexity of design, availability of competitive suppliers, interface with existing or future DoD systems, and logistic support. The standardization program shall consider standardization throughout all aspects of design, development, testing, and production functions, and establish goals for each aspect of the standardization program. The standardization program shall be periodically reviewed and the standardization objectives assessed to determine what program refinements are necessary and in which area achievements are being accomplished. The contractor, when paragraph 5.3 of this standard is specified, shall prepare a standardization program plan which identifies and describes all elements of the standardization program as defined by this standard.

4.1.1 Contractor's management disciplines. The contractor's engineering/program management disciplines shall encourage the repetitive use of items and features within an equipment or system, promote commonality among systems and equipments (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.

4.2 Subcontractor/supplier efforts. The contractor's standardization program shall be implemented between the contractor and his subcontractors/suppliers to assure compliance with the objectives of this standard.

4.3 Minimizing varieties. The contractor's 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.

5. DETAILED REQUIREMENTS

5.1 Standardization program elements. The contractor shall establish and document procedures for identification and control of the elements specified in the following subparagraphs. These procedures shall be submitted as part of the standardization program plan when paragraph 5.3 of this standard is invoked. When MIL-STD-965, "Parts Control Program", has been specified, the Parts Control Program shall be integrated with other standardization elements and objectives of this standard.

5.1.1 Components/equipments (C/E) items. The contractor shall identify and control C/E items incorporated into, and in support of the contract article to assure the fewest practicable number of different C/E items. The contractor shall provide for:

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

5.1.1.1 Components/equipments items selection. Unless otherwise specified by the acquiring 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 inventory of the acquiring activity - these items may be identified by the contractor as items furnished to the acquiring activity under previous contracts for those systems and equipments still in use, or lists of C/E items identified by the acquiring activity for use by the contractor (see Appendix A.).
- b. C/E items included in other segments of the Department of Defense inventory.
- c. Other C/E items - Some C/E items are supportable to some degree by repair parts already in the Department of Defense inventory. Preference shall be given to those C/E items requiring introduction of the least number of different new parts to the Department of Defense inventory.

5.1.2 Tools and support equipment. The tools and support equipment required for test, maintenance, assembly, servicing, handling, etc. shall be controlled in the same manner as for C/E items (see paragraph 5.1.1.1.). Commonality shall be stressed and multi-application tools

and support equipments shall be used wherever possible. The contractor shall review the tools and support equipment currently in the Government inventory for application to the contract. On the basis of such review, the contractor shall use current Government tools and support equipment in preference to the introduction of new tools and support equipment wherever possible.

5.1.3 C/E identification during design. The contractor shall identify components/equipments and parts performing similar functions. Designs shall include the smallest practicable variety of components/equipments and parts (see paragraph 4.3.).

5.1.4 Identification of standards. The contractor shall identify the specifications, standards, drawings, and other documents that are to be used in the program. The contractor shall provide for control and accessibility of these data to design, production, test, and quality control personnel for purposes of repetitive use of established methods, parts, materials, processes, and features in the contract item (see paragraph 6.2.).

5.1.4.1 Selection of standards. The contractor shall provide for the selection of standard components/equipments, parts, processes, features, and materials from specifications, standards, handbooks, or government furnished data recognized by the contractor and the acquiring activity as applicable to the program. Unless otherwise specified in the contract, the order of precedence for the selection of documents shall be in accordance with MIL-STD-143.

5.1.4.2 Standardization document preparation. The contractor shall control the preparation of new documents in order to prevent unnecessary reassignment of identifications and descriptions to existing satisfactory items, processes, features, and practices, and for conformance to the specifications, standards, and drawing preparation requirements invoked by the contract.

5.1.4.3 Standardization document changes. The contractor shall maintain in-house procedures for the control of changes to existing specifications, drawings, and standards.

5.1.5 Management disciplines. The contractor shall establish management disciplines to:

- a. establish sufficient controls for integrating and coordinating all aspects of the standardization program to provide a means to avoid duplication of effort, unnecessary data, and to estimate and track standardization program costs and cost avoidances (Life Cycle).

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- c. establish procedures for effecting continuous standardization throughout all contract phases as appropriate.
- d. identify each task to be performed, the procedures to be employed in performing the tasks, and the method of monitoring task performance.
- e. establish procedures and methods to be used by the contractor for evaluating the effectiveness of the program.
- f. inform all design, development, acquisition, production, logistics, and associated personnel of standardization requirements and the application of these requirements to their areas of responsibility.

5.2 Data for audit. The contractor's standardization program shall be organized and scheduled to permit the government procuring activity to review its status, including results achieved, on a periodic basis. Data accumulated by the contractor regarding execution of the standardization program shall be retained and shall be available for audit by the Government. Formal review and assessment of the standardization program shall be conducted at system program reviews (such as Preliminary Design Review and Critical Design Review) established by the contract.

5.3 Standardization program plan. The contractor shall prepare a standardization program plan. The standardization plan, as accepted by the acquiring activity and incorporated into the contract, will become the basis for contractual compliance. The standardization program plan shall address the standardization program elements of sections 4 and 5 and related subparagraphs.

5.3.1 Organization and personnel. The plan shall identify the organization and personnel responsible for managing the overall standardization program and shall clearly define their responsibility, authority, and functions.

5.3.2 Changes to plan. The contractor, prior to seeking approval of deviations from the accepted plan, 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.

5.4 Standardization Status Report. The contractor shall prepare a Standardization Status Report. The report shall address accomplishments, problems and recommendations associated with each element of paragraph 5.1 and Appendix A, as applicable.

6. NOTES

6.1 Application information. When this standard is specified, the acquiring activity shall tailor the requirements to insure that only the minimum requirements necessary are contractually applied. The Standardization Program Plan (paragraph 5.3) and the Standardization Status Report (paragraph 5.4) will only be invoked where a demonstrable need exists. Submittal requirements and schedule must be specified when invoking the requirements of paragraphs 5.3 and 5.4.

6.2 Order of precedence. The following options are structured into this standard, but, when invoked, require the acquiring activity to supply additional details and guidance in the RFP or contract:

- (1) Order of precedence for components/equipment items selection, if other than that required in Section 5.1.1.1.
- (2) Order of precedence for the selection of documents, if other than that required in Section 5.1.4.1.

6.3 Design selection criteria. To the degree possible, the acquiring activity shall specify design selection criteria and lists defining acceptable inventory items for both component/equipment items and tools and support equipment. Note that Appendix A accomplishes this for the Navy.

6.4 Data. Data Item Descriptions associated with this standard, which shall be used when deliverable contract data is required, are specified in Appendix B.

Custodians:

Army - AR
Air Force - 10

Preparing Activity:

Navy - AS
(Project MISC-OC95)

Review Activities:

Army - GL, AV, MI, AR, ER, AT, CR, ME, EA, SC, AD
Navy - CG, MC, OS, SA, SH, TD, YD, EC
Air Force - 11, 13, 17

User Activities:

Air Force - 19

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APPENDIX A (NAVY)

DESIGN SELECTION LISTS AND SPECIFIC NAVY REQUIREMENTS.

10. SCOPE.

10.1 General. This appendix supplements the requirements of the basic standard by providing information on available lists of components/equipments for use by contractors during the design of weapon systems and equipment for the Department of the Navy and the peculiar requirements of specific Navy Activities. Contractor procedures for use of applicable lists are to be reflected in the contractor's standardization program plan where a plan is contractually required or required in response to an RFP.

20. REFERENCE DOCUMENTS.

20.1 Design Selection Lists.

20.1.1 Issues of Documents. The following Design Selection Lists of the issue in effect on date of invitation for bids or request for proposals form a part of this appendix to the extent specified herein.

<u>Area</u>	<u>List</u>	<u>Availability</u>
Hull, Mechanical and Electrical Components/Equipments (Ship Construction)	NAVSEA Standard Components List (SCL).	Furnished to Navy supervising activities, Shipyards and shipbuilding contractors (not furnished to bidders), by Naval Sea Systems Command
Aeronautical SE (Support Equipment)	Technical Information File of Support Equipment (MIL-HDBK-300)	Naval Publications and Forms Center 5801 Tabor Ave., Phila., PA 19120
Electrical/Electronics Test Equipment	Electrical Test Equipment Application Guide (NAVSHIPS-0969-019-7000)	Naval Publications and Forms Center 5801 Tabor Ave., Phila., 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 Ave., Phila., PA 19120

<u>Area</u>	<u>List</u>	<u>Availability</u>
Electronic Test Equipment	Standard General Purpose Electronic Test Equipment (MIL-STD-1364)	Naval Publications and Forms Center 5801 Tabor Ave., Phila., PA 19120
Standard Electronic Modules	Requirements For Employing Standard Electronic Modules (MIL-STD-1378)	Naval Publications and Forms Center 5801 Tabor Ave., Phila., PA 19120
Preferred Avionics SE (Support Equipment) for support of Aeronautical Systems	Avionics Preferred Common SE Publication NAVAIR 16-1-525	Naval Air Engineering Center, Code 925 Lakehurst, NJ 08733
Preferred Non-Avionics SE for Support of Aeronautical Systems	Non-Avionics Preferred Common SE Publication NAVAIR 19-1-527	Naval Air Engineering Center, Code 925 Lakehurst, NJ 08733

30. DEFINITIONS. (See paragraph 3.1 of basic Standard.)

40. GENERAL REQUIREMENTS. Not applicable

50. DETAILED REQUIREMENTS.

50.1 Selection of C/E items. The appropriate Design Selection List(s) of paragraph 20.1.1 shall be referred to 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 paragraphs 5.1, 5.1.1, 5.1.1.1, and 5.1.5.)

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50.2 Procurement of Ships, Major Shipboard Systems, Equipments and Components.

50.2.1 Standardization Preference Clause. The contractor shall, in the performance of his contract, use hull, mechanical, and electrical components/equipments 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/equipments presently in the US Navy fleet, which are supported by Allowance Parts Lists (APL), and which are preferred and approved for installation on ships of the US Navy. The SCL will normally be updated by the government annually. The requirements of this paragraph will be implemented as specified in 50.2.1.1 through 50.2.1.3.

50.2.1.1 Solicitation. The Contractor shall include in all solicitations the requirement for components or equipment from sources identified on the QPL (Qualified Parts List) or SCL (Standard components List). Other sources may be solicited at the same time. The contractor shall maintain documentation which clearly indicates the contractor's best efforts in attempting to obtain items on the SCL in a timely fashion and, as specified below, his selection criteria for other equipment. Such documentation shall be made available upon request to the contracting officer or his representative.

50.2.1.2 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 US Naval System and included on the SCL.
- b. Whenever the component/equipment is already in the US Naval System, the bidder is requested to identify the item he proposes to delivery 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.

50.2.1.3 NAVSEA Standard Components List (SCL) Exceptions. The contractor shall furnish components/equipments 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 US Naval 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 US Naval System. Bidders are requested to identify the item proposed by APL number or other evidence whenever the item is already in the US Navy Supply System."

50.2.2 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, 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, installation, operation, special tools, replacement costs, training 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 US Government as a result of introducing new repair parts into the US Naval Supply System.

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50.3 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 system. The contractor shall make every effort to keep the number of different manufacturers' types for like performance items to an optimum minimum. The contractor shall provide visible evidence which clearly demonstrates 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.

APPENDIX B
DATA REQUIREMENTS

10. GENERAL

10.1 Scope. This appendix identifies the data requirements applicable to this standard.

10.2 Purpose. Data requirements of this standard are deliverable as part of and in response to an RFP or as specified in the contract. This appendix identifies the data required to prepare a standardization program plan or standardization program report.

20. REFERENCE DOCUMENTS.

Not Applicable.

30. DEFINITIONS.

Not Applicable.

40. GENERAL REQUIREMENTS.

Not Applicable.

50. DETAIL REQUIREMENTS.

50.1 Standardization Program Plan. Data Item Description DI-E-7098, Standardization Program Plan, applies to paragraph 5.3 and shall be delivered in accordance with the Contract Data Requirements List (CDRL DD Form 1423).

50.2 Standardization Status Report. Data Item Description DI-E-7099, Standardization Program Report, applies to paragraph 5.4 and shall be delivered in accordance with the CDRL.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS: This form is provided to solicit beneficial comments which may improve this document and enhance its use. DoD contractors, government activities, manufacturers, vendors, or other prospective users of the document are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity. A response will be provided to the submitter, when name and address is provided, within 30 days indicating that the 1426 was received and when any appropriate action on it will be completed.

NOTE: This form shall not be used to submit requests for waivers, deviations or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

DOCUMENT IDENTIFIER (Number) AND TITLE

MIL-STD-680A

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VENDOR USER MANUFACTURER

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? IS ANY PART OF IT TOO RIGID, RESTRICTIVE, LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW.

A. GIVE PARAGRAPH NUMBER AND WORDING

B. RECOMMENDED WORDING CHANGE

C. REASON FOR RECOMMENDED CHANGE(S)

2. REMARKS

SUBMITTED BY (Printed or typed name and address -- Optional)

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