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DEPARTMENT OF DEFENSE
HANDBOOK

ACQUISITION OF SUPPORT EQUIPMENT
AND ASSOCIATED
INTEGRATED LOGISTICS SUPPORT



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MIL-STD-2097A

FOREWORD

1. This military standard is approved for use by all departments and agencies of the Department of Defense (DOD).

2. This standard is to be used by contractor and acquiring activities in the identification, selection, production, distribution, and integrated logistic support (ILS) of support equipment (SE). It has equal utility whether applied during the concept exploration, demonstration and validation, full-scale development, or production and deployment phases of the end article's life cycle.

3. In concert with DOD policy and practices to streamline Government and contractor efforts throughout the acquisition process, Appendix A provides a tailored reference, by paragraph, to key information.

4. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Naval Air Engineering Center, Systems Engineering and Standardization Department, Code 53, Lakehurst, New Jersey 08733-5100, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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1. SCOPE

1.1. Scope. This standard prescribes the requirements for the identification of common and peculiar support equipment for aerospace weapons systems, subsystems, or major end articles.

This standard also presents the procedures for the acquisition of end items, associated ILS and related technical data for system(s) peculiar SE.

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2. REFERENCED 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 (see 2.4.1).

SPECIFICATIONS

MILITARY

DOD-D-1000	-	Drawing, Engineering and Associated List.
MIL-C-4150	-	Case, Transit and Storage, Waterproof and Water-vaporproof.
MIL-S-5944	-	Slings, Aircraft, General Specification for.
MIL-E-6051	-	Electromagnetic Compatibility Requirements, Systems.
MIL-I-6870	-	Inspection Program Requirements, Non-destructive for Aircraft and Missile Materials and Parts.
MIL-L-7976	-	List and Card, Technical Manual Data, for Contractor Furnished Equipment and Accessories.
MIL-S-8512	-	Support Equipment, Aeronautical, Special, General Specification for the Design of.
MIL-P-9024	-	Packaging, Materials Handling and Transportability, System and System Segments, General Specification for.
MIL-Q-9858	-	Quality Program Requirements.
MIL-P-15024	-	Plates, Tags, and Bands for Identification of Equipment.
MIL-D-18300	-	Design Data Requirements for Avionic Equipment.
MIL-T-18303	-	Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic Equipment, Format for.

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SPECIFICATIONS (Continued)

MILITARY

- | | | |
|-------------|---|--|
| MIL-N-18307 | - | Nomenclature and Identification for Aeronautical Systems Including Joint Electronics Type Designated Systems and Associated Support Systems. |
| MIL-D-23140 | - | Drawings, Installation Control for Ship-board Electronic Equipment. |
| MIL-M-23618 | - | Manual, Technical, Periodic Maintenance Requirements, Preparation of. |
| MIL-T-28800 | - | Test Equipment for Use With Electrical and Electronic Equipment, General Specification for. |
| MIL-M-38510 | - | Microcircuit, General Specification for. |
| MIL-M-38784 | - | Manual, Technical, General Style and Format Requirements. |
| MIL-P-38790 | - | Printing Production of Technical Manuals, General Requirements for. |
| MIL-I-45208 | - | Inspection System Requirements. |
| MIL-M-63036 | - | Manual, Technical: Operators, Preparation of. |
| MIL-M-63038 | - | Manual, Technical: Organization or Aviation Unit, Direct Support or Aviation Intermediate, and General Support Maintenance. |
| MIL-M-81919 | - | Manual, Technical, Support Equipment, Preparation of. |
| MIL-M-81927 | - | Manual, Technical, General Style and Format of (Work Package Concept). |
| MIL-M-81929 | - | Manual, Technical, Illustrated Parts Breakdown (Work Package Concept), Preparation of. |
| MIL-D-81992 | - | Directives, Technical, Preparation of. |
| MIL-M-85337 | - | Manual, Technical, Quality Assurance Program, Requirements for. |

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STANDARDS

MILITARY

- MIL-STD-12 - Abbreviations for Use on Drawings, Specifications, Standards, and in Technical Documents.
- DOD-STD-100 - Engineering Drawing Practices.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-130 - Identification Marking of U.S. Military Property.
- MIL-STD-196 - Joint Electronics Type Designation System.
- MIL-STD-280 - Definitions of Item Levels, Item Exchangeability, Models, and Related Terms.
- MIL-STD-335 - Manuals, Technical: Repair Parts and Special Tools List.
- MIL-STD-461 - Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference.
- MIL-STD-470 - Maintainability Program Requirements (for Systems and Equipments).
- MIL-STD-471 - Maintainability Demonstration.
- MIL-STD-480 - Configuration Control - Engineering Changes, Deviations and Waivers.
- MIL-STD-481 - Configuration Control - Engineering Changes (Short Form), Deviations and Waivers.
- MIL-STD-483 - Configuration Management Practices for Systems, Equipment, Munitions, and Computer Programs.
- MIL-STD-490 - Specification Practices.
- MIL-STD-648 - Design Criteria for Specialized Shipping Containers.
- MIL-STD-680 - Contractor Standardization Program Requirements.

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STANDARDS (Continued)

MILITARY

- MIL-STD-721 - Definitions of Effectiveness Terms for Reliability, Maintainability, Human Factors, and Safety.
- MIL-STD-756 - Reliability Modeling and Prediction.
- MIL-STD-780 - Work Unit Codes for Aeronautical Equipment, Uniform Numbering System.
- MIL-STD-781 - Reliability Testing for Engineering Development, Qualification, and Production.
- MIL-STD-785 - Reliability Program for Systems and Equipment Development and Production.
- MIL-STD-789 - Contractor Technical Information Coding of Replenishment Parts.
- MIL-STD-808 - Finish, Materials, and Processes for Corrosion Prevention and Control in Support Equipment.
- MIL-STD-810 - Environmental Test Methods and Engineering Guidelines.
- MIL-STD-831 - Test Reports, Preparation of.
- MIL-STD-847 - Scientific and Technical Reports Prepared By or For the Department of Defense, Format Requirements for.
- MIL-STD-864 - Support Equipment Functional Classification Categories.
- MIL-STD-875 - Type Designation System for Aeronautical and Support Equipment.
- MIL-STD-882 - System Safety Program Requirements.
- MIL-STD-961 - Military Specification and Associated Documents, Preparation of.
- MIL-STD-965 - Parts Control Program.
- MIL-STD-970 - Standards and Specifications, Order of Preference for the Selection of.

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STANDARDS (Continued)

MILITARY

- MIL-STD-1189 - Bar Code Symbology, Standard Department of Defense.
- MIL-STD-1309 - Definitions of Terms for Test, Measurement, and Diagnostic Equipment.
- MIL-STD-1364 - Standard General Purpose Electronic Test Equipment. -
- MIL-STD-1365 - General Design Criteria for Handling Equipment Associated with Weapons and Related Items.
- MIL-STD-1367 - Packaging, Handling, Storage, and Transportability Program Requirements (For Systems and Equipments).
- MIL-STD-1378 - Requirements for Employing Standard Electronic Modules.
- MIL-STD-1379 - Contract Training Programs.
- MIL-STD-1388-1 - Logistic Support Analysis.
- MIL-STD-1388-2 - Logistic Support Analysis Record, DOD Requirements for.
- MIL-STD-1390 - Level of Repair.
- DOD-STD-1399 - Interface Standard for Shipboard Systems.
- MIL-STD-1456 - Contractor Configuration Management Plans.
- MIL-STD-1472 - Human Engineering Design Criteria for Military Systems, Equipment and Facilities.
- MIL-STD-1519 - Test Requirements Document, Preparation of.
- MIL-STD-1520 - Corrective Action and Disposition System for Nonconforming Material.
- MIL-STD-1521 - Technical Reviews and Audits for Systems, Equipments, and Computer Software.

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STANDARDS (Continued)

MILITARY

- MIL-STD-1528 - Manufacturing Management Program.
- MIL-STD-1535 - Supplier Quality Assurance Program Requirements.
- MIL-STD-1556 - Government/Industry Data Exchange Program Contractor Participation Requirements.
- MIL-STD-1561 - Provisioning Procedures, Uniform DOD.
- MIL-STD-1567 - Work Measurement.
- MIL-STD-1568 - Materials and Processes for Corrosion Prevention and Control in Aerospace Weapons Systems.
- MIL-STD-1574 - System Safety Program for Space and Missile Systems.
- MIL-STD-1629 - Procedures for Performing a Failure Mode, Effects, and Criticality Analysis.
- MIL-STD-1653 - Power Cable Assemblies.
- MIL-STD-1686 - Electrostatic Discharge Control Program.
- MIL-STD-1815 - ADA Programming Language (ANSI/MIL-STD-1815A-1983)
- MIL-STD-1839 - Calibration and Measurement Requirements.
- MIL-STD-2073-1 - DOD Materiel Procedures for Development and Application of Packaging Requirements.
- MIL-STD-2074 - Failure Classification for Reliability Testing.
- MIL-STD-2076 - Unit Under Test Compatibility With Automatic Test Equipment, General Requirements for.
- MIL-STD-2077 - Test Program Sets, General Requirements for.
- MIL-STD-2078 - Requirement for Preparation of Support Equipment Depot Level Rework Standards.

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STANDARDS (Continued)

MILITARY

- MIL-STD-2084 - General Requirements for Maintainability of Avionic and Electronic Systems and Equipment.
- MIL-STD-2096 - Microcircuit Data Requirements.
- MIL-STD-2165 - Testability Program for Electronic System and Equipment.
- DOD-STD-2167 - Defense Systems Software Development.
- MIL-STD-2173 - Reliability-Centered Maintenance Requirements for Naval Aircraft, Weapons Systems and Support Equipment.
- MIL-STD-8512 - Support Equipment Aeronautical Special General Specification for the Design of.
- MIL-STD-45662 - Calibration System Requirements.

HANDBOOKS

MILITARY

- MIL-HDBK-217 - Reliability Prediction of Electronic Equipment.
- MIL-HDBK-235 - Electromagnetic (Radiated) Environment Considerations for Design and Procurement of Electrical and Electronic Equipment Subsystems and Systems Part 1A - validated March 1979.
- MIL-HDBK-248 - Guide for Application and Tailoring of Requirements.
- MIL-HDBK-265 - Standard General Purpose Electronic Test Equipment Support Items.
- MIL-HDBK-300 - Technical Information File of Support Equipment (Available in Microfiche [24] (Only)).
- MIL-HDBK-472 - Maintainability Prediction.
- MIL-HDBK-63038-1 - Technical Manual Writing Handbook.
- MIL-HDBK-63038-2 - Technical Manual Writing Style Guide.

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(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPCDS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those in effect on the date of the solicitation (see 2.4.2).

DOD 4100.38-M	-	Department of Defense Provisioning and Other Preprocurement Screening Manual.
NAVMATINST (ASN (S&L)(R&M&QA)) 4855.10	-	Contractual Manufacturing Requirements.
NAVAIR AD 1115	-	Electromagnetic Compatibility Design Guide for Avionics and Related Ground Support Equipment.
NAVAIR AD 1350	-	Engineering Drawings and Associated Data.
NAVAIR 00-35QG-16	-	Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft.
NAVAIR 16-1-525	-	Avionics Preferred Common Ground Support Equipment.
NAVAIR 17-1-126	-	Standard Configuration of Electrical Input Power Cables for Avionics Test Equipment.
NAVAIR 19-1-127	-	Non-Avionics Preferred Common Ground Support Equipment.
CATALOGING HDBK-H6	-	Federal Item Name Directory (FIND) for Supply Cataloging.
DA PAM 700-21	-	TMDE Register.
DA PAM 700-21-1	-	TMDE Preferred Items List.
DA PAM 738-751	-	Functional Users Manual for the Army Maintenance Management System - Aviation.

(Copies of other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

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2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issue of the non-Government documents which are current on the date of the solicitation (see 2.4.3).

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

- | | | |
|------------------|---|---|
| IEEE-STD-200-75 | - | Electrical and Electronic Parts and Equipments, Reference Designation for -- 4 Sep 75 with correction sheet Feb 76. |
| IEEE-STD-315A-86 | - | Graphic Symbols for Electrical and Electronics Diagrams -- 12 Sep 86. |
| IEEE-STD-716-82 | - | C/Atlas Test Language -- 18 Dec 81. |
| IEEE-STD-771-84 | - | Atlas, Guide to the Use of. |

(Application for copies should be addressed to the Institute of Electrical and Electronics Engineers, Incorporated, 445 Hoes Lane, Piscataway, New Jersey 08854.)

2.3 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 takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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3. DEFINITIONS

3.1 Definition of terms. For the purpose of this standard, the following definitions are as defined. Other terms, abbreviations and acronyms used are defined in MIL-STD-280, MIL-STD-721, or as specified herein.

3.1.1 Acquiring activity. The activity that is assigned the responsibility for acquiring or providing the equipment, supplies, or services. Acquiring activities are commands such as the Naval Air Systems Command (NAVAIR), the Army Aviation Systems Command (AVSCOM), and the Air Force Systems Command (AFSC). The acquiring activity is not used in lieu of the ordering activity, but may be the same as the requiring activity.

3.1.2 Acquisition. The process consisting of planning, designing, producing, and distributing a weapon system/equipment. Acquisition in this sense includes the concept exploration/definition, demonstration/validation, full-scale development, production, and operations support phases of the weapon systems/equipment project.

3.1.3 Acquisition streamlining. Any action that results in more efficient and effective use of resources to develop, produce, and deploy quality defense systems and products. This includes ensuring that only cost-effective requirements are included, at the most appropriate time, in system and equipment solicitations and contracts.

3.1.4 Administrative Contracting Officer (ACO). The representative of the Government located at, or having responsibility for, the contractor facility for contract administration purposes.

3.1.5 Approving authority. The activity having technical approval for specific requirements/items. The approving authority may also generate a demand through the contracting officer.

3.1.6 Automatic Test Equipment (ATE). A generic term for equipment (separate or built-in) satisfying a test function (diagnostic or condition indicating) and possessing an automatic capability. In this sense, ATE can be either a part of the mission equipment or it can be a part of support equipment (see MIL-STD-1309).

3.1.7 Common Support Equipment (CSE). A SE type that is designed for a wide-range of applications and usually exists in the normal SE inventory.

3.1.8 Contract Data Requirements List (CDRL). Contract form (DD 1423) listing all DIDs selected from an authorized data list required to be delivered under the contract. Tells contractor what data to deliver.

3.1.9 Contractor-Furnished Equipment (CFE). An item manufactured or purchased by the contractor for inclusion in, or support of, the system or equipment.

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3.1.10 Designated Procuring Activity (DPA). A field activity that supports the acquiring activity in the planning, development, procurement, and logistics support of SE as specifically directed. DPAs include activities such as the Naval Air Engineering Center (NAVAIRENGCEN), Naval Avionics Center (NAVAVIONICSCEN), Pacific Missile Test Center (PACMISTESTCEN), and the Naval Air Technical Services Facility (NAVAIRTECHSERVFAC).

3.1.11 Development activity. The field activity assigned or contractor selected by the acquiring activity to develop a system/equipment.

3.1.12 End article. The end weapon, aircraft system, component, or equipment being procured on the contract. This includes all contractor-furnished systems, components, assemblies, subassemblies, and parts therein.

3.1.13 End Item Specification (EIS). A contractor-prepared specification describing performance and design criteria of the system/equipment or supporting elements therein.

3.1.14 Government-Furnished Equipment (GFE). Equipment that has been selected and is to be furnished by the Government to a contractor or Government activity for installation in, use with, or in support of, systems during production, conversion, modification, or operation.

3.1.15 Integrated Logistic Support. A composite of all considerations necessary to assure the effective and economical support of a system for its life cycle. It is an integral part of all other aspects of system acquisition and operation. ILS is characterized by harmony, and coherence among all the logistic elements.

3.1.16 ILS Detail Specification (ILSDS). A document that specifies the ILS performance requirements that shall be met by the contractor. It identifies the specific requirements governing the development, test, evaluation, and production of the ILS for end article or SE end item. The ILSDS is prepared by the Government, is provided with the Request for Proposal (RFP), and serves as a basis for negotiating the ILS portion of the contract.

3.1.17 Initial order. An order for a specified quantity of breadboard, prototype, or production-type SE required for developmental test or evaluation, or for the support of the end article project.

3.1.18 Life Cycle Cost. The total cost to the Government of acquisition and ownership of that system over its useful life. It includes the cost of development, acquisition, support, and where applicable, disposal.

3.1.19 Logistic Support Analysis (LSA) process. A systematic and comprehensive analysis conducted on an iterative basis through all phases of the system/equipment life cycle by which the supportability objectives are identified and satisfied. The level of detail of the analyses and the timing of task performance is tailored to each system/equipment and is responsive to program schedules and milestones.

3.1.20 Logistic Support Analysis Record (LSAR). The data (as defined by MIL-STD-1388-2) generated as a result of performing MIL-STD-1388-1 tasks 205, 301, 401, and 501.

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3.1.21 Maintenance Plan (MP). The plan for maintaining a particular system/equipment or SE end item. It is a concise narrative that identifies the source, maintenance, and recoverability (SM&R) codes, and the repair, removal, and attrition rates for each repairable. It identifies the system/equipment or SE end item maintenance requirements and their associated SE hardware requirements.

3.1.22 Mission Equipment (ME). Any item which is a functional part of a system or subsystem that is required to perform mission operations. It includes items such as aircraft radios, missile launching mechanisms, engines, constant speed drives, munitions pylons, command-and-control displays and radar sets.

3.1.23 Ordering Activity (OA). The activity authorized to obligate the Government to acquire SE and/or related materials and services. This is normally the contracting officer.

3.1.24 Peculiar Support Equipment (PSE). A SE type that is unique and is designated for use with a specific equipment or equipment family.

3.1.25 Preferred Item. An item not specifically developed or acquired to fulfill multiple using service requirements, but which has been later identified by the cognizant equipment development or buying activity as having that potential; includes both inventory items and items under development.

3.1.26 Procuring Contracting Officer (PCO). The Government representative located at the purchasing office who is responsible for all facets of contracting up to and through contract award. The PCO normally assigns an ACO to monitor contractor performance and perform specifically defined duties subsequent to contract award.

3.1.27 Program Support Inventory Control Point (PSICP). An organizational unit or activity within a DOD supply system which is assigned the primary responsibility for the material management of a group of items, either for a particular service or for the Defense Department as a whole. Material inventory management includes cataloging direction, requirements computation, procurement direction, distribution management, disposal direction, and general rebuild direction.

3.1.28 Requiring activity. The activity originating a requisition or purchase request for equipment, supplies, or services (not used in lieu of OA, but may be the same as the acquiring activity).

3.1.29 Standard Item. An item specifically developed or acquired to fulfill multiple use requirements, which has been formally designated a standard item by the using service's headquarters; includes both inventory items and items under development.

3.1.30 Support Equipment (SE). All equipment required to make a weapon system, command and control system, support system, subsystem, or item of SE operational in its intended environment. This includes all equipment required

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to install, launch, arrest (except Navy shipboard and shore-based launching and arresting equipment), guide, control, direct, inspect, test, adjust, calibrate, appraise, gauge, measure, assemble, disassemble, handle, transport, safeguard, store, actuate, service, repair, overhaul, maintain, operate, arm, or rearm the system, subsystem, end item, or component. This definition applies regardless of the method of development, funding, or procurement. SE may be categorized as common (general-purpose) and peculiar (special-purpose); within these categories, developmental (no Government-approved specification/drawing) and standard (with Government-approved specification/drawing) sub-categories may exist. The following equipment is excluded from the definition of support equipment:

- a. Common powered and unpowered hand tools.
- b. Housekeeping items.
- c. Office furniture and equipment and items common to all activities defined in applicable allowance lists that are required as indirect support.
- d. Common production tools and tooling such as lathes, drills, presses, plating equipment, grinders, and induction heaters.
- e. Items used only by the contractor.
- f. Personal equipment (e.g., headsets, microphones).
- g. Off-line automatic data processing (ADP) equipment.

3.1.31 SE critical item. An item of SE for which the period of time, cost, safety, or state of the art required to obtain it makes meeting contractual end article delivery schedules, or the need date, a critical factor. SE critical items are afforded special management attention.

3.1.32 SE end item. A unit of SE that is complete within itself and performs a desired function.

3.1.33 Support Equipment Recommendation Data (SERD). The SERD is the contractor's recommendation for SE to support the contract end article. SERDs required by this standard are recorded in several parts. These parts provide key narrative and quantitative data used to propose and validate SE needs. Narrative approach is used with engineering data that support the contractor's description of a function requiring support together with a recommended means to satisfy this need. Quantitative methods are also used to provide availability, logistics support, and acquisition-type data regarding the item of SE being recommended. The total SERD is intended to support overall systems management action for SE development, acquisition, and optimum standardization within and among systems.

3.1.34 Sustaining engineering. Engineering support and related services that include tasks such as customer liaison concerning new equipment performance, schedules, quality deficiency reports, field service reports, beneficial suggestions and demonstrations; investigation and resolution of equipment problems using laboratory analysis where necessary; participation in SE program implementation reviews that focus on technical approach and outfitting sites; preparation and submission of SERDs; checking GFE for compatibility with the aircraft system or subsystem it supports; and reviewing SE for changes and submitting support peculiar change proposals and configuration management data.

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3.1.35 Type Equipment Code (TEC). A four-character alpha or alphanumeric descriptive code used to identify an end item in the Maintenance Data Collection Subsystem (MDCS) by its application to the specific type/model/series of aircraft (e.g., AV-8B, P-3C) or equipment (e.g., AGM 12 missile, J52 engine) that it supports. TECs may also be assigned by category of equipment supported (e.g., communication, navigation). In these cases, TECs will conform as closely as possible to work unit code (WUC) groupings as described below.

NOTE (Air Force): The Standard Reporting Designator (SRD) code, when it exists, may be provided to the contractor to be entered in the LSAR as the TEC.

3.1.36 Test Bench Installation (TBI). Those Weapon Replaceable Assemblies (WRAs)/Line Replacement Units (LRUs) installed in a test bench harness/test set/test console which are required to simulate (hot mock-up) in a maintenance shop a system, assembly, or component of the end article for the purpose of accomplishing all necessary operational maintenance test and repair procedures.

3.1.37 Work Unit Code (WUC). A three-, five-, or seven-character alphanumeric code assigned to an end item and repairable assemblies, subassemblies, and components and critical consumables of an end item. A WUC identifies the category of system being supported (e.g., landing gear, flight controls, radar) and provides a component breakdown within an end item. It must be identified when any type of maintenance data is reported under MDCS. WUC structure is provided in MIL-STD-780.

3.2 Definitions of abbreviations and acronyms used in this standard. The abbreviations and acronyms used in this military standard are defined as follows:

a.	ACO	-	Administrative Contracting Officer
b.	AFSC	-	Air Force Systems Command
c.	AF SIL/PIL	-	Air Force Standard Items List/Preferred Items List
d.	AMSDL	-	Acquisition Management Systems and Data Requirements Control List
e.	ATE	-	Automatic Test Equipment
f.	AVSCOM	-	Army Aviation Systems Command
g.	CCDR	-	Contractor Cost Data Reporting
h.	CDRL	-	Contract Data Requirements List (DD Form 1423)
i.	CETS	-	Contractor Engineering and Technical Services
j.	CFE	-	Contractor-Furnished Equipment
k.	CM	-	Configuration Management
l.	CMRS	-	Calibration/Measurement Requirements Summary
m.	CPR/R	-	Component Pilot Rework/Repair
n.	CSE	-	Common Support Equipment
o.	DCAS	-	Defense Contract Administration Service
p.	DID	-	Data Item Description
q.	DIDS	-	Defense Integrated Data System
r.	DPA	-	Designated Procuring Activity
s.	DODISS	-	Department of Defense Index of Specifications and Standards
t.	ECP	-	Engineering Change Proposal

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u.	EIS	-	End Item Specification
v.	EMC	-	Electromagnetic Compatibility
w.	FAR	-	Federal Acquisition Regulations
x.	FAT	-	First Article Test
y.	FCI	-	Functional Configuration Identification
z.	FMECA	-	Failure Mode, Effects, and Criticality Analysis
aa.	FRD	-	Facilities Requirements Document
ab.	GFE	-	Government-Furnished Equipment
ac.	GIDEP	-	Government-Industry Data Exchange Program
ad.	GPETE	-	General Purpose Electronic Test Equipment
ae.	GSI	-	General Purpose Electronic Test Equipment Support Item
af.	ICP	-	Instrument Calibration Procedures
ag.	ILS	-	Integrated Logistics Support
ah.	ILSDS	-	ILS Detail Specification
ai.	ILSMT	-	Integrated Logistics Support Management Team
aj.	ISP	-	Integrated Support Plan
ak.	LORA	-	Level of Repair Analysis
al.	LRU	-	Line Replacement Unit
am.	LSA	-	Logistic Support Analysis
an.	LSAR	-	Logistic Support Analysis Record
ao.	LSARDSS	-	Logistic Support Analysis Record Data Selection Sheet
ap.	LSMHT	-	List of Standard/Modified Hand Tools
aq.	MDCS	-	Maintenance Data Collection System
ar.	ME	-	Mission Equipment
as.	MILSTAMP	-	Military Standard Transportation and Movement Procedures
at.	MILSTRIP	-	Military Standard Requisitioning and Issue Procedures
au.	MIR	-	Master Index of Repairables
av.	MP	-	Maintenance Plan
aw.	MRC	-	Maintenance Requirements Card
ax.	NAVAIR	-	Naval Air Systems Command
ay.	NAVAIRENCEN	-	Naval Air Engineering Center
az.	NAVAIRTECH-SERVFAC	-	Naval Air Technical Services Facility
ba.	NAVAVNDEP-OPCEN-(NADOC)	-	Naval Aviation Depot Operations Center
bb.	NAVAVNMAINT-OFF (NAMO)	-	Naval Aviation Maintenance Office
bc.	NSN	-	National Stock Number
bd.	OA	-	Ordering Activity
be.	PAT&E	-	Production Acceptance Test and Evaluation
bf.	PACMISTESTCEN	-	Pacific Missile Test Center
bg.	PCO	-	Procuring Contracting Officer
bh.	PHS&T	-	Packaging, Handling, Storage, and Transportation
bi.	PPLI	-	Provisioning Parts List Index
bj.	PRS	-	Provisioning Requirements Statement
bk.	PSE	-	Peculiar Support Equipment

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b1. PSEL	-	Priced Support Equipment List
bm. PSICP	-	Program Support Inventory Control Point
bn. PTD	-	Provisioning Technical Documentation
bo. QA	-	Quality Assurance
bp. RLA	-	Repair Level Analysis
bq. R&M	-	Reliability and Maintainability
br. ROR	-	Repair of Repairables
bs. SE	-	Support Equipment
bt. SECL	-	Support Equipment Candidate List
bu. SEI	-	Support Equipment Illustration
bv. SEID	-	Support Equipment Installation Data
bw. SERD	-	Support Equipment Recommendation Data
bx. SML	-	Support Material List
by. SM&R	-	Source, Maintenance, and Recoverability
bz. SOW	-	Statement of Work
ca. SPTD	-	Supplementary Provisioning Technical Documentation
cb. SRA	-	Shop Replaceable Assembly
cc. SRD	-	Standard Reporting Designator
cd. SSPP	-	System Safety Program Plan
ce. TAT	-	Turn-Around Time
cf. TBI	-	Test Bench Installation
cg. TEC	-	Type Equipment Code
ch. TECHEVAL	-	Technical Evaluation
ci. TM	-	Technical Manual
cj. TMCR	-	Technical Manual Contract Requirement
ck. TMDC	-	Technical Manual Data Card
cl. TMDE	-	Test, Measurement, and Diagnostic Equipment
cm. TMDL	-	Technical Manual Data List
cn. TPS	-	Test Program Set
co. TTEP	-	Training and Training Equipment Plan
cp. WRA	-	Weapons Replaceable Assembly
cq. WUC	-	Work Unit Code

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4. GENERAL REQUIREMENTS

4.1 Purpose. It is intended that this standard clarify the SE identification process and establish the acquisition process for obtaining peculiar support equipment or modifications to existing support equipment and associated Integrated Logistics Support. The processes shall encompass all phases of the end article's and the end item's life cycle and related life-cycle management considerations.

4.2 Program. An acquisition program shall include either development or procurement of support equipment, or modifications to support equipment as well as supporting equipment, systems, projects, and studies.

4.3 Requirements. Program tasks shall be selected and tailored according to the support equipment acquisition phase (i.e., concept exploration/definition, demonstration/validation, full-scale development, production, operations support). These tasks shall be planned, integrated, and accomplished in conjunction with all other pertinent functions.

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5. DETAILED REQUIREMENTS

5.1 Guidance conferences and initial information. The acquiring activity will establish firm dates for necessary conferences for the end article. The conference team will be composed of responsible Government and offeror or contractor representatives. The conference will be chaired by a representative of the acquiring activity. Types of conferences are discussed in the Federal Acquisition Regulations.

5.2 Acquisition of SE and SE ILS products. The goal of ILS is to achieve minimum life cycle costs while simultaneously achieving the desired operability goals. A key factor in accomplishing this goal is to structure the end article and associated SE LSA programs so that the system designers interface significantly with the logistics support elements to minimize the need for development of CSE and/or PSE. The purpose of this section of the standard is to establish guidelines for the contractor and the acquiring authority to determine the required SE and to obtain the required SE and SE ILS products. This standard is written primarily in the terms of PSE that will be acquired as part of a weapon system end item procurement. However, these same building blocks can be used in the determination of a need for and acquisition of CSE and CSE ILS products. For CSE the requirements will normally begin with paragraph 5.4.5.

5.3 Funding requirements and authorization. After execution of the contract, the contractor shall advise and confirm with the SE acquiring activity the funds estimated to be required for the engineering effort. Requirements shall be shown separately and indicate the period to be covered for:

- a. SE sustaining engineering/logistics management effort.
- b. SE design, fabrication, and test effort.
- c. Cost of providing engineering/logistics support data estimated by the contractor as required herein and as prescribed in the CDRL (DD Form 1423).

The SE acquiring activity will issue appropriate funding authorization documents to cover the services and data to be authorized.

5.4 SE recommendation process.

5.4.1 Support Equipment requirements/analysis strategy. Immediately upon receipt of a funding authorization, and in accordance with the CDRL, the contractor shall provide a report which details his strategy to involve support equipment engineers in the system engineering and LSA process. This is to ensure that the weapon system, subsystems or repairable component is/are designed to take full advantage of supportability enhancing features and eliminate, simplify or reduce the requirement for the use of external SE, minimizing turn-around time (TAT) for repair and operational performance verification of the weapon system, subsystem or end item. This report shall include specific target areas for involvement by SE engineers in trade-off studies, which shall be conducted as part of the systems engineering and LSA process, where potential exists for improved weapon system support through the elimination, simplification, or reduction of external SE.

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5.4.1.1 SE strategy/program plans. The contractor shall outline candidate design tradeoff studies between performance and supportability/testability that have been or will be conducted at the system, subsystem or end article level to achieve design synthesis. The contractor shall give specific consideration to MIL-STD-2165, and submit a Testability Program Plan and implement the SE Plan and the SE Section of the Integrated Support Plan (ISP) to investigate requirements for SE by performing an LSA of the end article system, subsystem, or equipment as detailed in the Government-approved Logistic Support Analysis (LSA) Plan as required by MIL-STD-1388-2. The LSAP requires a description of how LSA tasks and data interface with other ILS system oriented tasks and data including System/Equipment Design Program, System Equipment Reliability and Maintainability Program, System/Equipment Testability Program, Support Equipment Program, and Test and Evaluation Program. In addition, the LSAP requires descriptions of the methods and controls by which supportability and supportability-related design requirements are disseminated to designers and associated personnel and to subcontractors.

5.4.1.2 LSA strategy report. The LSA strategy report requires proposed supportability objectives for the new systems and potential design impacts from performing LSA tasks and subtasks. Normally, SE that is related strictly to Government-furnished components installed in the end article is excluded from these requirements. SE that is required due to peculiarities of the installation of the Government-furnished components in the end article shall be investigated. SE identified in this process shall be submitted on the SE Candidate List for Government consideration. Along with the proposal the contractor will also submit an LSA plan which will define the contractor's plan for integrating all LSA tasks identified in the end article SOW.

5.4.2 PSE requirements. The LSA plan should identify the contractor's method to integrate end article design with logistics support requirements to reduce life-cycle cost; in particular, to maximize the use of off-the-shelf SE and CSE, and to reduce the need to develop any PSE.

5.4.3 Selection criteria. To promote standardization/nonproliferation of SE within the Government, the following order of priority shall be used in preparing recommendations:

- a. Standard/Preferred/service SE items.
- b. Standard/Preferred DOD SE items.
- c. Items in the Government inventory or being developed under Government contract.
- d. Commercially available items that meet technical and logistics requirements.
- e. Modification of any of the above.
- f. Newly developed items.

5.4.3.1 SE standardization and nonproliferation. In addition to conducting an aggressive standardization program in accordance with MIL-STD-680, the offeror, when preparing SE recommendations, shall obtain from the acquiring activity access to the acquisition documents and data described in the following paragraphs. These documents and data shall be used when selecting existing SE inventory items. Since these documents and data are periodically revised, care shall be exercised to use the latest issue in effect at the time a selection is recommended to the Government.

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5.4.3.1.1 "Avionics Preferred Common Support Equipment" (NAVAIR 16-1-525). This hard copy publication presents a preferred item list of Navy Aviation CSE used by aviation maintenance activities to test, maintain, and repair electronic systems.

5.4.3.1.2 "Non-Avionics Preferred Common Support Equipment" (NAVAIR 19-1 127). This microfiche publication presents a preferred item list of Navy Aviation CSE required by aviation maintenance activities to test, maintain, and repair aeronautical systems.

5.4.3.1.3 "Technical Information File of Support Equipment" (MIL-HDBK-300). This microfiche file presents a central source of technical information for some aircraft and missile system SE in the Government inventory. Screening may also be performed through the use of an automated SE Data Base.

5.4.3.1.3.1 "Air Force Standard/Preferred Items List (AF SIL/PIL)". This file lists aircraft and missile mission equipment and SE designated as Air Force standard or preferred items. This file is to be a subset of the automated SE Data Base.

5.4.3.1.3.2 "Standard Tools for Aeronautical Repair" (USAF). This paper copy lists the standard tools which may be used for aircraft and ground SE repair. This list is to be a subset of the automated SE Data Base.

5.4.3.1.3.3 "Standard Tools for Aeronautical Removal and Replacement" (USAF). This paper copy lists the standard tools which may be used for aircraft and ground SE removal and replacement. This list is to be a subset of the automated SE Data Base.

5.4.3.1.4 "Standard General Purpose Electronic Test Equipment" (MIL-STD-1364). This hard copy publication identifies standard and substitute standard general-purpose electronic test equipment (GPETE) that has been determined to be suitable for Government use.

5.4.3.1.5 "Standard General Purpose Electronic Test Equipment Support Items" (MIL-HDBK-265). This hard copy publication identifies standard and substitute standard general-purpose electronic test equipment support items (GSIs) that have been determined to be suitable for Government use.

5.4.3.1.6 Other sources of data.

5.4.3.1.6.1 Government-Industry Data Exchange Program (GIDEP). The GIDEP is a cooperative activity between Government and contractors. Its purpose is to reduce or eliminate excessive expenditure of time and money by providing a means of exchanging certain types of technical data (excluding classified and proprietary information) essential to the research, design, development, production, and operational phases of systems and equipment. Participants in GIDEP are given access to the following major data banks: Engineering Data Bank, Reliability-Maintainability Data Bank, Metrology Data Bank, and Failure Experience Data Bank. Contractors shall participate in the GIDEP on a contractual basis as prescribed in MIL-STD-1556.

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5.4.3.1.6.2 "Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft" (NAVAIR 00-350G-16). This hard copy publication identifies tools and other specific types of items that are to be excluded from the SERD preparation process.

5.4.3.1.7 "TMDE Preferred Items List (DA PAM 700-21-1). This hard copy publication provides technical information on standard supportable, test measurement and diagnostic equipment identified as preferred over other items in the TMDE Register."

5.4.3.1.8 "TMDE Register (DA PAM 700-21). This microfiche file provides a central source of technical information on all TMDE identified as in Army inventory."

5.4.4 Systems Engineering. The contractor shall provide a report delineating the systems engineering and LSA trade-off activities, studies conducted, and supporting rationale on a system summary level. The report shall highlight system design for supportability/testability and self-diagnostic capabilities and shall specifically address cost benefits, effectiveness, risk and future requirements. For those areas where trade studies are complete and external SE will be recommended, the contractor shall discuss the details of the requirements and equipment. This report shall be provided in accordance with the CDRL. The contractor shall prepare and deliver testability analysis reports in accordance with MIL-STD-2165, Tasks 201 and 202 and their respective CDRLs.

Prior to Critical Design Reviews (CDRs) the contractor shall provide a final report documenting the results of the trade studies and provide the details and documentation of the weapon system support requirements in terms of tasks (maintenance or other support functions), locations (where the tasks are to be performed), and the projected weapon systems inventory at each location which must be supported.

The detailed analysis of the support tasks locations and projected inventory requirements and the design alternatives considered to meet the requirements shall be included. Discussion shall be provided to outline the system, subsystem and repairable component trade-offs that led to the recommendation of external SE. This report shall be provided in accordance with the CDRL. At this time, the contractor shall prepare and deliver testability analysis plans in accordance with MIL-STD-2165, Task 203 and the CDRL.

5.4.4.1 Support Equipment Candidate List (SECL). The SECL shall be prepared and delivered in accordance with the CDRL to present a forecast and record of SE requirements. These requirements may be based on experience, intuitive judgment, or LSA. The approval of listed SE candidates by the approving authority will lead to development of SERDs. SECL revisions shall be submitted when any previously approved data element is changed.

5.4.5 LSA-070, Support Equipment Recommendation Data (SERD).

5.4.5.1 Requirements for SERDs. Requirements for design, development, test, initial order, and ILS shall be established for each SE end item through contractor submission and approval of the SERD by the approving authority. SE requirements identified on the SERD should be traceable to the analytical LSA

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process described by MIL-STD-1388-1 and documented in accordance with MIL-STD-1388-2. Changes in design concept or logistic support data, if required, will be indicated on the SERD returned by the Government to the contractor. Information required in addition to that contained in the SERD may be requested, where necessary, by the SE approving authority. The additional data may be in the format of an end item specification. When authorized by the Government, SERDs shall be prepared for equipment other than SE such as machine lathes, generator test stands, etc., that only partially support air systems requirements.

5.4.5.1.1 SE for Government-furnished components. Normally, the contractor does not propose SERDs for a Government-furnished component installed in the end article. However, required items, due to peculiarities of the installation of the Government-furnished component in the end article, are required to be investigated and submitted for consideration.

5.4.5.1.2 New or special hand tools. New or special hand tools shall be identified and acquired by means of the LSA process. However, the normal engineering and certification requirements shall be tailored to a level commensurate with the complexity of the item.

5.4.5.2 SERD exclusions. SERDs shall be prepared only for support equipment as defined in paragraph 3.1.30. Review of documents, such as NAVAIR 00-35QG-16, shall be useful in determining the specific type of items to be excluded from SERD preparation.

5.4.5.3 SERD submissions. A SERD shall be prepared and submitted for each item of SE required to satisfy functional requirements identified in the approved SECL. SERD submissions are a continuous requirement throughout the life of the contract, and shall include discussion of the LSA level of effort and the support plan envisioned for each maintenance significant end item. SE identified during project initiation or prototype contractual efforts shall be further addressed in the full-scale development/production contract. For items and quantities not ordered in the project initiation, prototype, and full-scale development contracts, the ordering activity, upon notification from the approving authority, may authorize the contractor to proceed with the design, development, manufacture, and logistic support acquisition portion of the project under the production contract. For production contracts on weapon systems or subsystems that have been covered by SERDs during previous development or production contracts for the same end article, resubmission of SERDs is not required unless new requirements are identified.

5.4.5.3.1 Initial submission of SERDs. Initial SERDs shall be submitted in accordance with CDRL after the LSA process or approved SECL for the end article identifies the need for SE. Submission of SERDs shall include all budgeting and pricing, including the separate price out of required ILS services and data.

5.4.5.3.2 Subsequent submission of SERDs. Unless otherwise specified in the contract, subsequent SERDs shall be submitted in accordance with CDRL to provide the DOD activity with sufficient time to review the proposed SE items

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and authorize procurement and delivery to support the first end article delivered to the acquiring activity. More frequent submissions may be made under mitigating circumstances involving engineering, procurement, criticality, or safety of flight considerations.

5.4.5.4 SERD dispositions. The acquisition and ILS actions indicated in the SERD and authorized by the ordering activity shall be initiated upon receipt of the dispositioned SERD from the approving authority. Additionally, the dispositioned SERD shall be distributed in accordance with the CDRL. A dispositioned SERD is one that has received approving authority consideration that resulted in either approval, disapproval (including deletion), pending, or direction to revise and resubmit.

5.4.5.5 SERD revisions. SERD revisions shall be submitted when, for example, new requirements are identified for previously submitted SERDs, new authorized activities are added, authorized quantities are revised, or any previously approved data element is changed. For PSE, a technical update revision shall also be submitted after DD Form 250 acceptance of the SE hardware to actually describe the end item's final design and data elements as necessary. This revision shall also contain an illustration/line art drawing of the production end item and be delivered in accordance with the CDRL. SERD revisions will be dispositioned as approved or disapproved.

5.4.5.6 SERD status information. A logistic engineering progress report covering SERD status for each approved SERD shall be submitted in accordance with the CDRL.

5.4.6 Early SE identification for procurement. In instances where known or anticipated SE design and procurement lead time considerations dictate a need for recommending the SE item to the SE approving authority for consideration to meet test, evaluation, or operational requirements prior to the availability of formal documentation resulting from the LSA process, such requirements shall be submitted on the SECL for approval based on the lead time requirements. Anytime during the many iterations of end article LSA that findings indicate SE requirements previously provided to the Government require change, immediate action shall be taken to revise the SE submission. If a change in SE requirements is identified by this comparison, revised SECLs or SERDs shall be submitted.

5.5 Exceptional SE selection practices.

5.5.1 Government-furnished SE. Items which are determined to be properly Government-furnished, but which the Government is unable to provide on a timely basis, may be authorized for offeror procurement. In such instances, the Government will provide appropriate procurement data and recommended sources.

5.5.2 Vendor items. The Government may, at its option and after coordination with the prime contractor, effect direct contact with the prime contractor's vendors for the purpose of review, familiarization, and coordination on the selection of SE and associated ILS. Throughout the direct contact, no actions by Government personnel shall be interpreted as to imply a commitment on

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the part of the Government or prime contractor. Any item selected for subsequent acquisition at the time of review shall not be considered by the vendor to constitute a commitment or obligation on the part of the Government or prime contractor to order the selected items. Prime contractors and their vendors will further ensure that any contract entered into with vendors will include an appropriate clause whereby the vendor agrees to furnish directly to the Government information copies of such documentation as is prescribed in this document and give such assistance as may be necessary to enable the Government to select SE.

5.6 Acquisition.

5.6.1 Establishing design, test, and technical characteristics. Unless otherwise specified or defined in the SERD, SE design, test, or technical characteristics shall be in accordance with the following list of specifications and standards as appropriate to the nature of the particular SE item:

DOD-STD-100	Engineering Drawing Practices.
MIL-STD-480	Configuration Control - Engineering Changes, Deviations and Waivers.
DOD-D-1000	Drawing, Engineering and Associated List.
DOD-STD-2167	Defense System Software Development.
MIL-C-4150	Case, Transit and Storage, Waterproof and Water-vaporproof.
MIL-S-5944	Slings, Aircraft, General Specification for.
MIL-E-6051	Electromagnetic Compatibility.
MIL-I-6870	Inspection Program Requirements, Nondestructive for Aircraft and Missile Materials and Parts.
MIL-P-9024	Packaging, Handling and Transportability in Systems/ Equipment Acquisition.
MIL-Q-9858	Quality Program Requirements.
MIL-P-15024	Plates, Tags and Bands for Identification of Equipment.
MIL-D-18300	Design Data Requirements for Avionic Equipment.
MIL-T-18303	Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic Equipment, Format for.
MIL-N-18307	Nomenclature and Identification for Aeronautical Systems Including Joint Electronics Type Designated Systems and Associated Support Systems.

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MIL-D-23140	Drawings, Installation Control, for Shipboard Electronic Equipment.
MIL-T-28800	Test Equipment for Use With Electrical and Electronic Equipment, General Specification for.
MIL-M-38510	Microcircuit, General Specification for.
MIL-I-45208	Inspection System Requirements.
MIL-STD-12	Abbreviations for Use on Drawings, Specifications, Standards and in Technical Documents.
MIL-STD-130	Identification Marking of U.S. Military Property.
MIL-STD-196	Joint Electronics Type Designation System.
MIL-STD-280	Definitions of Item Levels, Item Exchangeability, Models and Related Terms.
MIL-STD-461	Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference.
MIL-STD-470	Maintainability Program for Systems and Equipment.
MIL-STD-471	Maintainability Verification/Demonstration/Evaluation.
MIL-STD-481	Configuration Control - Engineering Changes, Deviations and Waivers (Short Form).
MIL-STD-483	Configuration Management Practices for Systems, Equipment, Munitions, and Computer Programs.
MIL-STD-490	Specification Practices.
MIL-STD-721	Definitions of Terms for Reliability and Maintainability.
MIL-STD-781	Reliability Testing for Engineering Development, Qualification and Production.
MIL-STD-785	Reliability Program for Systems and Equipment Development and Production.
MIL-STD-808	Finishes, Material, and Processes for Corrosion Prevention and Control in Support Equipment.
MIL-STD-810	Environmental Test Methods.
MIL-STD-831	Test Reports, Preparation of.
MIL-STD-875	Type Designation System for Aeronautical and Support Equipment.

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MIL-STD-882	System Safety Program Requirements.
MIL-STD-961	Military Specification and Associated Documents, Preparation of.
MIL-STD-965	Parts Control Program.
MIL-STD-970	Standards and Specifications, Order of Preference for the Selection of.
MIL-STD-1309	Definitions of Terms for Test, Measurement, and Diagnostic Equipment.
MIL-STD-1365	General Design Criteria for Handling Equipment Associated with Weapons and Related Items.
MIL-STD-1367	Packaging, Handling, Storage, and Transportability Program Requirements (for Systems and Equipments).
MIL-STD-1378	Requirements for Employing Standard Electronic Modules.
MIL-STD-1388/1	Logistic Support Analysis.
MIL-STD-1388/2	Logistic Support Analysis Record, DOD Requirements for.
MIL-STD-1456	Contractor Configuration Management Plans.
MIL-STD-1472	Human Engineering Design Criteria for Military Systems, Equipment, and Facilities.
MIL-STD-1519	Test Requirements Document, Preparation of.
MIL-STD-1520	Corrective Action and Disposition System for Non-conforming Material.
MIL-STD-1521	Technical Reviews and Audits for Systems, Equipment, and Computer Software.
MIL-STD-1528	Production Management.
MIL-STD-1535	Supplier Quality Assurance Program Requirements.
MIL-STD-1567	Work Measurement.
MIL-STD-1568	Materials and Processes for Corrosion Prevention and Control in Aerospace Weapon Systems.
MIL-STD-1574	System Safety Program for Space and Missile Systems.
MIL-STD-1629	Procedures for Performing a Failure Mode, Effects, and Criticality Analysis.

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MIL-STD-1653	Power Cable Assemblies.
MIL-STD-1686	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment.
MIL-STD-1815	Military Standard Ada Programming Language.
MIL-STD-2076	Unit Under Test Compatibility with Automatic Test Equipment, General Requirements for.
MIL-STD-2077	Test Program Sets, General Requirements for.
MIL-STD-2096	Microcircuit Data Requirements.
MIL-STD-2173	Procedures for Determining Calibration Standards for Aviation SE.
MIL-STD-8512	Support Equipment Aeronautical Special General Specification for the Design of.
MIL-HDBK-217	Reliability Prediction of Electronic Equipment.
MIL-HDBK-235	Electromagnetic (Radiated) Environment Considerations for Design and Procurement of Electrical and Electronic Equipment, Subsystems and Systems.
MIL-HDBK-248	Guide for Application and Tailoring of Requirements.
MIL-HDBK-472	Maintainability Prediction.
NAVAIR 17-1-126	Standard Configuration of Electrical Input Power Cables for Avionics Test Equipment.
NAVAIR AD 1115	Electromagnetic Compatibility Design Guide for Avionics and Related Ground Support Equipment.
NAVAIR AD 1350	Engineering Drawings and Associated Data.
NAVAIR 0035QG-16	Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft.
IEEE-STD-200-75	Electrical and Electronic Parts and Equipments, Reference Designations for.
IEEE-STD-315A-86	Graphic Symbols for Electrical and Electronic Diagrams -- 12 Sep 86.
IEEE-STD-716-82	C/Atlas Test Language.
IEEE-STD-771-84	Atlas, Guide to the Use of.

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5.6.1.1 Design requirements, considerations, and constraints. It is the Government's desire to have PSE designed in such a manner to require features, such as those described in the following subparagraphs.

5.6.1.1.1 Calibration requirements. Self-test of all necessary parameters shall be incorporated in design to ensure a verifiable test capability of the PSE. Cost, degradation of reliability and maintainability (R&M), as well as an unwarranted increase in PSE complexity will be important considerations in designing the PSE to meet self-test and calibration objectives. MIL-STD-2173 will be followed in the determination of calibration requirements for all SE procurements.

5.6.1.1.2 Electromagnetic (EM) considerations. Design considerations of electronic, electrical, and electromechanical end articles/end items should address the control of electromagnetic emissions, EM susceptibility characteristics, and requirements for electromagnetic compatibility (EMC), including EM interference (EMI), EM pulse (EMP), and EM radiation hazards.

5.6.1.1.3 Parts control program. The parts control program is intended for new design or modification (applicable to new parts used in the modification) in major weapon systems, end items of equipment where provisioning and follow-on support will be required, and other Government programs where life-cycle benefits can be derived. A parts control program shall be developed as specified in MIL-STD-965, the contract, and the CDRL.

5.6.1.1.4 System safety program. A system safety program shall be conducted that identifies all hazards and provides a methodology to either eliminate or control these identified hazards.

5.6.1.1.4.1 System Safety Program Plan (SSPP). An SSPP shall be prepared in accordance with the applicable requirements of MIL-STD-882 and the CDRL. The SSPP will include, but not be limited to, the following:

- a. A policy statement describing management commitment to prevention of hazards, as contrasted with reaction to accidents.
- b. The specific methodology established to ensure that hazards are identified, classified, and ranked for consequence prior to their occurrence.
- c. The authority and organizational position of those charged with the responsibility of resolving management action on identified hazards.
- d. The analytical techniques employed to identify and rank hazards for either limitation or control. The selection of specific types of analyses is the offeror's responsibility. However, the SSPP should contain a description of the analytical method(s) being utilized and how they will be applied for decision making and tradeoffs.
- e. A description of all specific tasks required to ensure optimum resolution of identified hazards.

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5.6.1.1.4.2 System safety hazard analysis report. System safety hazard analysis reports shall be provided in accordance with the applicable requirements of MIL-STD-882 and the CDRL.

5.6.1.1.5 Reliability and maintainability programs. Reliability and maintainability programs shall be conducted to influence system design, systems effectiveness, logistics support requirements, and life-cycle cost. These programs shall be developed using considerations presented in MIL-STD-470, MIL-STD-756, MIL-STD-785, MIL-STD-2074, and MIL-STD-2084. The plans shall be delivered in accordance with the CDRL to describe the contractor's proposed R&M programs in response to the contractual R&M program requirements.

5.6.1.1.6 Test Bench Installations (TBIs). When an SE design requires the use of TBIs, the TBIs will not be included with the hardware, but will be clearly identified in the SERD.

5.6.2 Design exceptions.

- a. SE items required solely for depot-level use may be designed, and related drawings may be prepared, in accordance with the manufacturer's normal commercial practices.
- b. SE items designed for organizational or flight-line use shall comply with the applicable radiation susceptibility levels of MIL-HDBK-235; NAVAIR AD 1115 shall be used as an EMC design guide.
- c. Software program end item (test program set (TPS)) design, development, test, and documentation requirements are defined by MIL-STD-2077.
- d. SE items for shipboard applications shall be developed with reference to MIL-D-23140 and DOD-STD-1399.

5.6.3 Establishing SE configuration. Configuration control of SE end items in accordance with the requirements of MIL-STD-480 or MIL-STD-481 will be applied after the establishment of the product baseline. Until the product baseline is established, changes to configuration shall be made using both the SERD and appropriate Engineering Change Proposals (ECPs).

- a. The functional baseline of the SE end item is established by Government approval of the end item specification or the initial SERD describing the functional configuration identification (FCI) of the end item when an end item specification is neither required nor available.
- b. The product baseline is established by Government acceptance (e.g., DD-250 execution) of the first production item procured and is defined by the detailed engineering drawings, specifications, and acceptance test procedures existing at the time of Government acceptance.

5.6.4 SE design changes and configuration control.

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5.6.4.1 Engineering Change Proposals (ECPs). ECPs shall be submitted in accordance with MIL-STD-480 or MIL-STD-481 as appropriate. Engineering changes for TPSs shall also comply with MIL-STD-2077. Implementation of approved ECPs shall be in accordance with MIL-D-81992, and require appropriate revisions or resubmissions of the MPs, TMs, provisioning data, and when required the LSA.

5.6.4.2 Class I changes. If, after establishment of the product baseline configuration of an item of SE, it is considered necessary to eliminate (delete from inventory, F1), change the design (modify/supersede, for future procurement, F2), replace with a more suitable item (alternate, F3), or add items of SE, because of any of the following conditions, the appropriate action as described below shall be selected and initiated.

5.6.4.2.1 Category A changes.

Condition: Change in end article dictates requirement for new item(s) of SE. Does not affect existing items.

Action: The end article ECP shall be accompanied by a SERD for each new SE end item. The SERD will be processed by the Government in conjunction with ECP processing. Action on each SERD will be taken concurrently with the ECP action to the contractor.

5.6.4.2.2 Category B changes.

Condition: Change in end article dictates requirement for new item(s) of SE that completely supersede(s) existing item(s). Superseded item(s) cannot be brought to configuration of new item(s).

Action: The end article ECP shall be accompanied by a SERD for each new SE end item. The SERD will state the Reason for Deletion Code F1 and the item number of the SE being replaced. The SERD will be processed by the Government in conjunction with ECP processing. Action on each SERD will be taken concurrently with the ECP action to the contractor.

5.6.4.2.3 Category C changes.

Condition: Change in end article dictates requirements for revised, existing item(s) of SE. Superseded item(s) should be modified to configuration of new item(s), retaining, if possible, the capability of the superseded item(s).

Action: The end article ECP shall be accompanied by a SERD for each new SE end item. When modification is required, the SERDs will be processed by the Government in conjunction with ECP processing. Action on each SERD will be taken concurrently with the ECP action to the contractor.

5.6.4.2.4 Category D changes.

Condition: Changes to an end item of SE are necessary to correct a design deficiency in the SE.

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Action: An SE ECP shall be prepared and submitted in accordance with DOD-STD-480 and shall be accompanied by a SERD reflecting the new SE end item. When modification is required, the SERDs will be processed by the Government in conjunction with ECP processing. Action will be taken on the SERD concurrent with the ECP action to the contractor.

5.6.4.2.5 Category E changes.

Condition: Change to an end item of SE is necessary to implement a design improvement. All existing items will not necessarily be changed.

Action: An SE ECP shall be prepared and submitted in accordance with DOD-STD-480 and shall be accompanied by a SERD for the new item. The Government will determine whether all or part of the delivered items will be modified. When modification is required, the SERDs will be processed by the Government in conjunction with ECP processing. Action will be taken on the SERD concurrent with the ECP action to the contractor.

5.6.4.3 Class II changes. Class II changes shall be submitted to the ACO for review and concurrence in the classification.

5.6.4.4 ECPs and Configuration Management (CM). The CM plan shall be prepared and kept current to define how SE configuration documents that ensure proper configuration, identification, configuration control (including the control of approved ECPs), and configuration status accounting will be managed. Preparation, timing, and distribution of the CM plan shall be in accordance with the CDRL.

5.6.5 Monitoring hardware design and development. Progress toward designing and developing the PSE required by the Government shall be assessed during technical reviews such as preliminary design reviews and critical design reviews and physical and functional configuration audits conducted in accordance with MIL-STD-1521.

5.6.6 SE engineering drawings and associated lists. SE engineering drawings and associated lists shall be in accordance with DOD-D-1000, DOD-STD-100, and the CDRL. Unless specified otherwise, Level 3 drawings and related solicitation quality data will be provided. Associated data shall be prepared for development of ATE TPSs and shall be prepared in accordance with MIL-STD-2076 and MIL-STD-2077.

5.6.7 SE nomenclature. An SE end item nomenclature consisting of an item name developed using Handbook H6 procedures and a proposed Government-type designation developed from MIL-STD-196 or MIL-STD-875 as appropriate. The SE nomenclature shall be submitted in accordance with MIL-N-18307 and the CDRL.

5.6.8 Preparation of end item specifications. When directed by the SERD, specifications covering each of the contractor-furnished equipment SE items shall be prepared and submitted for approval. Each specification shall be kept up-to-date by revisions or amendments reflecting any changes to the equipment. End item specifications shall be prepared in accordance with MIL-STD-961 (preferred) and MIL-STD-490.

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5.6.9 Establishment of Government/contractor liaison procedures for development and acquisition of designated SE critical items. When the Government establishes the end item as critical by applying special management indicators on the approved SERD, the SERD will also indicate suggested management procedures to focus special attention on the critical features of the end item. For example, the CDRL/SERD could stipulate reports such as the Logistic Engineering Progress Report, or any other techniques including a Milestone Plan. Items may be labeled critical by the contractor and/or Government due to time, price, engineering, safety, or mission essentiality considerations.

5.6.10 Support Equipment Illustrations (SEIs). SEIs shall be prepared for items specified by the Government on the approved SERD. One original DD Form 1786 and one set of legible and reproducible copies of illustrations are to be provided. The SEIs shall be provided in accordance with the CDRL.

5.6.11 Quality Assurance (QA) Program. A Quality Assurance program shall be developed in compliance with MIL-Q-9858A or MIL-I-45208, as specified by the procuring activity. MIL-STD-1520 Corrective Action and Disposition System, MIL-STD-1535 Supplier Quality Assurance Program, and MIL-STD-1686 Electrostatic Discharge Program are also required. NAVMATINST (ASN (S&L) (R&M & QA)) 4855.10 shall also be invoked for applicable electrical/electronic equipment. A Quality Assurance Program Plan will be developed and subject to approval by the Government. After acceptance of this plan, a Government QA representative may regularly assess the contractors' QA performance to determine the adequacy of the plan in actual use.

5.6.11.1 Warranties. The contractor for production of weapon systems shall provide written guarantees that: the item conforms to design and manufacturing requirements; the item is free from defects in materials and workmanship; the item will conform to essential performance requirements covering operating capabilities and reliability and maintainability characteristics; and the contractor will correct defects at no cost to the Government or will pay the costs incurred by the Government. The guarantee requirement applies to weapon systems that are in full-scale development/production. When directed by the acquiring activity, the contractor shall provide written warranties on SE end item.

5.6.12 Test and evaluation (T&E).

5.6.12.1 First Article Test (FAT) Plan. The contractor shall provide a FAT plan for Government acceptance that includes coverage of test procedures, test equipment, and inspection criteria defining the minimum performance requirements that the SE end item must meet in order to be considered acceptable to the Government. The test plan shall be developed in accordance with the CDRL.

5.6.12.2 Technical Evaluation (TECHEVAL). All new or significantly modified PSE will undergo a Government-controlled test and analysis required to determine whether a system/equipment meets the design requirements and is technically suitable, logistically supportable, and essential for service use.

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5.6.12.3 Production Acceptance Test and Evaluation (PAT&E). PAT&E is that T&E conducted on production items of SE to demonstrate that the SE meets the performance requirements of the production contract specification. First article tests, preproduction tests, manufacturing screening tests (i.e., thermal cycling, burn-in, random vibration, etc.), quality assurance tests, and production acceptance tests are examples of PAT&E accomplished in accordance with the contract SOW. Execution of PAT&E is the responsibility of the DPA.

5.6.13 Government-prepared SERDs. SERDs prepared by Government activities will be forwarded to the contractor for the assignment of required item numbers and incorporation into appropriate data files.

5.6.14 Acquisition review meeting.

5.6.14.1 Establishing requirement for meetings. An acquisition review meeting may be held at the option of the approving authority/acquiring activity when it is determined that such a meeting is necessary due to:

- a. Program changes.
- b. Engineering changes to the end article that would cause significant changes in items, quantities, or logistic support of SE recommended by or ordered from, the contractor.
- c. Other reasons, subject to mutual agreement between the contractor and the Government.

5.6.14.2 Contractor preparation for meetings. A date and location for holding the acquisition review meeting shall be recommended to the approving authority. All technical data, including SERDs, specifications, MPs, and drawings available for the contractor-furnished equipment (CFE) items of SE to include items on the SECL, shall be available for the meeting. The approving authority will specify the items desired for inspection during the review meeting. The contractor will advise the approving authority of the items that cannot be made available and the reasons therefor. If the contract does not contain a specification covering engineering drawings, drawings used for manufacturing or acquisition purposes will be suitable for review purposes.

5.6.14.3 Meeting agenda. The Government team will review the specifications and supporting data furnished by the contractor. The team shall make whatever adjustments are necessary to meet current program requirements commensurate with the terms of the contract.

5.6.14.4 Actions resulting from acquisition review meetings. In accordance with the requirements specified in the CDRL, the contractor shall furnish to appropriate activities approved copies of the SERD(s) reflecting action required as a result of the meeting. After receipt of the approved copies of the SERD(s), the ordering activity shall provide the contractor with written authorization to proceed, terminate, or continue the design, fabrication, or acquisition and/or SE logistic support development/acquisition to meet current program requirements based upon approval and authorization furnished by the acquiring activity.

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5.6.15 Ordering SE.

5.6.15.1 Initial order. The initial SE order is accomplished by the ordering activity based upon approval and authorization from the acquiring activity. The SE items, quantities, and estimated costs will be furnished to the ordering activity by the acquiring activity. The initial SE order may include requirements for SE engineering drawings and associated lists, support equipment illustrations, SE logistic support requirements, and other requirements as specified in the approved SERDs, the CDRL, and the order as specifically provided by the ordering activity.

5.6.15.2 Priced Support Equipment Lists (PSELs) and revisions. The PSELs reflecting the materials and effort covered by the Government orders shall be submitted in accordance with the CDRL. A separate priced list shall be submitted by the contractor for each contract line item of SE and SE ILS.

5.6.16 Delivery of SE/hardware and data.

5.6.16.1 Delivery schedule. Delivery schedules for the SE hardware and data shall be proposed to the ACO after receipt of an order from the Government. Subsequently, the Government will approve, or will negotiate to revise, the contractor's proposed delivery on a specific SE end item basis. The Government will, at the time of, or following SERD approval, provide the contractor with an allocation sheet which provides shipping instructions for the SE hardware. Failure to agree on the delivery of a specific SE end item(s) will not affect the remaining items when the Government and the contractor have reached an agreement. The approved schedule will be incorporated into the contract at the time of incorporation of the PSEL. SE shall not be delivered before delivery of the training equipment or first end article, or the date of scheduled delivery, unless SE delivery is specified or approved by the Government. Government approval will be based on consideration of the ILS status as discussed in paragraph 5.7.3. The early delivery of these items of SE will normally be limited to ship- or shorebase-installed items.

5.6.16.2 Point of delivery. The contractor will be notified formally of the destination of SE to be furnished. The ACO and contractor shall mutually agree on a date of scheduled delivery. When approved and directed by the ACO, the contractor shall instruct the manufacturer to make direct shipment to the designated destination.

5.6.16.3 Delivery limitations. SE shall not be delivered unless the shipping papers, including the packing sheets, SEI (if required), a revised/updated copy of the SERD, Section 1, and a copy of the allocation instructions that authorize the SE end item(s) for the recipient, fully identify each item to be shipped in accordance with the identification established for such items, except that the contractor may shorten the description by listing the principal noun and type designations in addition to one or two descriptive modifiers. Unless otherwise authorized by the SE ordering activity, no equipment for operational or training purposes shall be shipped without a nameplate prepared in accordance with MIL-N-18307.

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5.6.16.3.1 Marking of material. The contractor shall identify and mark items of military property produced, stocked, stored, and issued as specified in MIL-STD-130. Marking for shipment and storage required by Military Standard Requisitioning and Issue Procedures (MILSTRIP) and Military Standard Transportation and Movement Procedures (MILSTAMP) will be in accordance with MIL-STD-129. Bar coding for marking unit packs, outer containers, and selected documents shall utilize DOD symbology defined in MIL-STD-1189.

5.6.17 Cost reports. Cost reports prescribed by the Contractor Cost Data Reporting (CCDR) system and documented on DD Form 1921, Cost Data Summary Report, and DD Form 1921-1, Functional Cost-Hour Report shall be provided in accordance with the CDRL.

5.6.17.1 DD Form 1921. All end items of SE and SE ILS will be listed on a DD Form 1921. The reporting elements (Column b on the form) should identify the appropriate SERD item number, manufacturer's reference number or NSN, and nomenclature.

5.6.17.2 DD Form 1921-1. All SE listed on the DD Form 1921 that is also identified on the SERD for special management attention because of price, shall require cost and man-hour data by functional category as exhibited on the DD Form 1921-1.

5.7 Integrated Logistics Support (ILS). To ensure that the Government receives a total system that can be supported over its life cycle, planning, funding, and controlling considerations shall be applied to integrate individual logistics elements.

5.7.1 Ordering of ILS services and data. Selective ordering of SE ILS services and data is accomplished during the SERD recommendation, review, and approval process. Frequently required logistics elements may be preprinted on appropriate SERD sheets and must be addressed by the contractor. Recommendations or nonrecommendations with explanations as appropriate along with budgetary price for each element (standard cost per DID or LSAR output data) as required by the CDRL shall be a part of SERD submission. Space is also provided on the SERD for the contractor to insert less frequently required logistics elements and services that may apply to the specific SE item being recommended. The approving authority shall approve, revise, and/or add specific logistics support item information on the SERDs. Based on the requirements in the approved SERDs and such other supplemental information and data furnished to the ordering activity, the contractor will be authorized to initiate or proceed with SE logistics support actions concurrently with the initial SE hardware development/acquisition.

5.7.2 Logistics support requirements. Logistics support requirements shall be considered but not be limited to:

- a. Establishing an ILS management system.
- b. Developing integrated support plans (ISPs).

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- c. Conducting LSA in accordance with MIL-STD-1388-1/2 to produce a SE maintenance plan and determine support requirements.
- d. Preparing support material lists (SMLs) and providing repair of repairables (RORs).
- e. Preparing provisioning technical documentation (PTD), and a Master Index of Repairables (MIRs).
- f. Identifying SE for SE, including calibration standards.
- g. Determining facilities requirements and preparing SE installation data (SEID).
- h. Preparing technical manuals (TMs), maintenance requirements cards (MRCs), and instrument calibration procedures (ICPs).
- i. Conducting Component Pilot Rework/Repair (CPR/R).
- j. Preparing rework standards.
- k. Determining/providing new start data packages.
- l. Preparing training and training equipment plans (TTEPs) and training courses and conducting contractor training.
- m. Furnishing Contractor Engineering and Technical Services (CETS).
- n. Evaluating/preparing Packaging, Handling, Storage, and Transportation (PHS&T) requirements.
- o. Providing phased support planning.

5.7.2.1 ILS organization and management. Immediately upon receipt of a funding authorization, an ILS management system shall exist for the SE end item(s). This system shall be used to monitor and control the development and execution of the ILS portion of the contract and shall be described in the SE section of the end article ISP. As a minimum, the SE ILS management system shall include provisions as described in the following subparagraphs.

5.7.2.1.1 ILS manager. A separate SE ILS manager shall be established as the single point of contact for SE ILS matters.

5.7.2.1.2 ILS Management Team (ILSMT) meetings. The ILSMT, consisting of Government and contractor personnel, is assembled and chaired by the Government. The ILSMT meets regularly throughout the weapon system and associated SE acquisition cycle to assess and manage quantitative and qualitative logistics support requirements, manage ILS acquisition to ensure effectiveness and timeliness, and interface the various ILS elements. SE ILSMT meetings may be held either as a subset of contract end article ILSMT meetings, or independently. Meeting data shall be provided in accordance with MIL-STD-847 and the CDRL.

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5.7.2.1.3 ILSMT meeting agenda. Inputs to the SE ILSMT meeting agenda shall be provided in accordance with the CDRL. ILSMT meetings will normally open with appropriate briefings and action assignments and will generally proceed on a functional area (e.g., training, supply support) working subgroup basis, using the action chit/item method of problem documentation and resolution.

5.7.2.1.4 ILSMT minutes. Inputs to SE ILSMT meeting minutes shall be provided in accordance with the CDRL. Minutes will normally include status of pending action chits followed by new action chits.

5.7.2.1.5 ILSMT action chits. Government assignment of responsibilities and action taken on ILSMT meeting action chits shall be documented in accordance with the CDRL, for publication in the ILSMT minutes. The Government may periodically request the status of chit items.

5.7.2.1.6 Logistics engineering progress report. Status, major problem definition, and analytical and technical reports with recommendations and specific engineering investigations required shall be provided in accordance with the CDRL.

5.7.2.2 Integrated Support Plan (ISP). The SE section of the end article ISP shall be prepared in accordance with the CDRL. This plan shall describe the contractor's approach and plan for meeting SE requirements contained in the ILS detail specification (ILSDS). It shall also provide visibility of key events, their relationship with other elements and actions of the ILS program, and the schedule for their accomplishment.

5.7.2.3 SE Logistics Support Analysis (LSA). The contractor shall develop an LSA program for SE in accordance with MIL-STD-1388-1/2 and applying the principles of MIL-STD-470, MIL-STD-785, and MIL-STD-1390; however, data to be submitted shall be an integral part of the contract end article maintainability program. No separate SE maintainability demonstration (MIL-STD-471) shall be required unless specifically authorized by the ACO. The SE LSA program shall be compatible with any similar program for the contract end article and tailored to fit the cost and complexity of each SE item in accordance with Appendix A and other available LSA tailoring guidance.

5.7.2.3.1 SE LSA Plan (LSAP). An SE LSAP shall be prepared referencing MIL-STD-1388-1, Task 102. The LSAP shall include: (1) the identification of the performing activity's management responsibilities and activities, and (2) the identification, integration, and outline of the performing activity's approach to accomplish the required LSA tasks.

5.7.2.3.2 LSAR data. All LSAR data shall be provided in accordance with MIL-STD-1388-2. To preclude data duplication, the CDRL will reflect a preference for LSAR data to the maximum extent practical. The SE LSAR should be developed in accordance with the LSAR Data Selection Sheets (DD Forms 1949-1) which will reflect the tailored SE design and LSA program.

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5.7.2.3.3 Level of Repair Analysis (LORA)/Repair Level Analysis (RLA). The LORA is the analysis process to determine the best level of repair for an item, considering operational and economic factors. Analysis shall be performed in accordance with MIL-STD-1390. Requirements for the LORA Program Plan, LORA Status Report, and LORA Input Data Report, etc., will be specified in the CDRL. The RLA performed for the Air Force may utilize an analysis model as specified in the contract.

5.7.2.3.4 Failure Mode, Effects, and Criticality Analysis (FMECA) plan. This plan documents the contractor's plans and activities for implementing FMECA tasks. It shall be delivered in accordance with MIL-STD-1629 and the CDRL.

5.7.2.3.5 FMECA report. This report provides an analysis of independent single item failures and the resulting potential impact on mission success, performance, personnel safety, and maintainability. It shall be delivered in accordance with MIL-STD-1629 and the CDRL.

5.7.2.3.6 Calibration/Measurement Requirements Summary (CMRS). As part of the LSA data base, a CMRS effort shall be established to include a contractor-prepared summary of the technical requirements of the system, subsystem, or equipment, outlining the measurement parameters, specifying ranges, accuracies, and calibration intervals for each echelon of measurement. This summary is used to determine that the system, subsystem, or equipment is adequately supported with SE, thereby traceable to known standards, as well as the measurement, qualification, and calibration workload agreements. MIL-STD-2173 has procedures for determination of calibration intervals and standards as part of the normal LSA process. The CMRS must be justified by the RCM analysis for identification of calibration requirements. The CMRS shall detail the data developed as specified in MIL-STD-1839 and shall be provided in accordance with the CDRL. Calibration procedures shall be prepared in accordance with MIL-STD-45662.

5.7.2.3.7 Task and skills analysis report. This report identifies technical tasks that will be performed by operator and maintenance personnel, job descriptions, and manpower requirements necessary for the proper operation, maintenance, and repair of systems and equipment. This report shall be provided in accordance with the CDRL.

5.7.2.4 SE MP development. A SE MP shall be developed as part of the tailored SE LSA process. The MP identifies SM&R codes, technical factors, maintenance levels, and SE requirements associated with the end item. The MP is developed in accordance with MIL-STD-1388-2 (i.e., LSA-024, Maintenance Plan).

5.7.2.5 Type Equipment Code (TEC). A TEC shall be requested from the Government in writing, citing equipment nomenclature, manufacturer, manufacturer's part number, and, if available, NSN and technical manual number. The assigned TEC will identify an end item in the Maintenance Data Collection System (MDCS) by its application to the type/model/series of aircraft or equipment that it supports and shall appear on the equipment nomenclature identification plate in accordance with MIL-N-18307.

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5.7.2.6 Work Unit Code (WUC). The CDRL and MIL-STD-780 will specify the requirement to develop a three-, five-, or seven-character alphanumeric code assigned to an end item and repairable assemblies, subassemblies, and components of an end item to identify the equipment within the maintenance data collection subsystem (MDCS).

5.7.2.6.1 WUC item listing. The WUC item listing provides data on repairable assemblies and subassemblies for use by the Government in developing WUC manuals. It shall be provided in accordance with the CDRL.

5.7.2.7 Supply support. Supply support (provisioning) data for the SE end item shall be provided using data from the LSAR data base. All provisioning data provided for repairable spares shall be traceable to, and match, data on the Government approved MP. If provisioning data are developed in conjunction with the contract end article, these data shall not be duplicative.

5.7.2.7.1 Support Material List (SML). The SML is a composite listing of all contractor- and Government-furnished spares and repair parts, training equipment, and PSE to be provided to support a preoperational (interim) program. The SML shall be screened in accordance with DOD 4100.38-M and delivered in accordance with the CDRL.

5.7.2.7.2 Consumption usage report. This report documents SML asset usage and provides data to the Government to refine operational support requirements and to update LSA data. The consumption usage report shall be provided in accordance with the CDRL.

5.7.2.7.3 Transition status report. This report shall be provided in accordance with the CDRL. The report shall present the status of preoperational training, facilities, and spares and repair parts support to aid the Government in subsequent support planning.

5.7.2.7.4 Residual asset preoperational (interim) report. This report lists all SML assets in contractor custody at the time of transition from contractor to Government support for transfer into Government inventories. The report shall be provided in accordance with the CDRL.

5.7.2.7.5 Repair of Repairables (ROR). When separately funded by contract, repair facilities shall be established for those spares for which the Government does not have repair capability. The contractor is authorized, as required, to stock repair parts to the extent necessary to ensure repairs are accomplished within allotted time. The contractor shall maintain data on each repair for accountability and usage analysis.

5.7.2.7.6 Provisioning Technical Documentation (PTD). When required by the Provisioning Requirements Statement (PRS) DD Form 1949-2, which includes the Logistic Support Analysis Record Data Selection Sheet (LSARDSS) DD Form 1949-1, and the Provisioning Performance Schedule (PPS), Figure 2 of MIL-STD-1561, the contractor shall prepare PTD in accordance with MIL-STD-1388-2, MIL-STD-1561 and the PRS. PTD is to be submitted pursuant to the PRS. The Government uses the PTD to identify, select, and determine initial requirements and to catalog support items to be procured through the provisioning process. PTD may consist of some or all of the data described below.

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5.7.2.7.7 Provisioning Parts List Index (PPLI). This index shall be provided in accordance with the CDRL and the PRS for use during provisioning to provide cross-reference access to part/component entries of the PPL.

5.7.2.7.8 Supplementary Provisioning Technical Documentation (SPTD). SPTD is part of PTD as set forth in paragraph 5.6.2.7.7. SPTD consists of data such as specifications, standards, drawings, photographs, sketches, descriptions, and schematic diagrams needed to indicate the location and function of the item for provisioning. The contractor shall provide SPTD in accordance with the CDRL and the PRS.

5.7.2.7.9 Manufacturer's commercial manual (provisioning). This manual supplements the Short Form Provisioning Parts List (SFPPPL) and is used to determine the range and depth of spares and repair parts required to maintain the SE end item for an initial period of service. The contractor shall deliver manuals in accordance with the CDRL. If a TMCR is part of the contract, the procedures for TM development, approval, and delivery established therein shall govern.

5.7.2.7.10 List of Standard/Modified Hand Tools (LSMHT). This list permits proper planning for the required hand tools (both powered and non-powered) which are applicable to systems and equipment and which is normally in two sections: standard hand tools, and hand tools requiring rework.

5.7.2.8 Master Index of Repairables (MIR). This index shall be provided in accordance with the CDRL. The MIR contains data relating to each repairable that provides management with information regarding repairable item identification, evaluation, aircraft application, and maintenance activity workload projection.

5.7.2.9 Calibration standards. Calibration standards will be considered SE for purposes of acquisition, maintenance planning, ILS planning, and CM. SERDs must be provided for calibration standards in accordance with paragraph 5.3.4.

5.7.2.10 SE Installation Data (SEID). Data including services, space, monitoring, environmental, electrical, physical, mechanical, interfaces, special facility, and safety requirements related to the installation of SE in existing or planned shipboard/shore-based facilities shall be provided in accordance with the CDRL.

5.7.2.11 Facilities data. In addition to the SEID, if the Government-approved SERD indicates installation significance, the contractor shall provide the following installation data.

5.7.2.11.1 Facilities Requirements Document (FRD). An FRD shall be prepared and delivered in accordance with the CDRL. If performed in conjunction with the end article, these data shall not be duplicative.

5.7.2.11.2 Site evaluation report. Site evaluation reports shall be prepared and delivered in accordance with the CDRL. If performed in conjunction with the end article, these data shall not be duplicative.

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5.7.2.12 Technical Manuals (TMs). TMs, including MRCs, for the SE end item shall be provided in accordance with MIL-M-38784, MIL-P-38790, MIL-M-63036, MIL-M-63038, MIL-HDBK-63038-1, MIL-HDBK-63038-2, MIL-M-81919, MIL-M-81927, MIL-M-81929, MIL-M-85337, MIL-STD-335, the TMCR, the SERD, and the CDRL.

5.7.2.12.1 Maintenance Requirements Cards (MRCs). MRCs shall be developed and delivered in accordance with MIL-M-23618, the TMCR, and the CDRL.

5.7.2.12.2 Instrument Calibration Procedures (ICPs). These ICPs are intended to provide necessary instructions for the periodic calibration of Test, Measurement, and Diagnostic Equipment (TMDE) which permit verification of the original accuracy of the device/instrument. Typically, ICPs are developed for each item. ICP requirements are specified on DD Form 1423 and are defined to meet Government needs for specifications, standards, drawings, and publications.

5.7.2.12.3 Technical Manual Data List (TMDL) and Technical Manual Data Card (TMDC). A TMDL/TMDC shall be prepared and delivered in accordance with MIL-L-7976, the TMCR, and the CDRL.

5.7.2.12.4 TM status report. These reports ensure the Government that contractor manuals are being developed in accordance with approved schedules and/or to take timely corrective action if discrepancies are identified. Reports are prepared and delivered in accordance with the TMCR and the CDRL.

5.7.2.12.5 Report of TM costs. This report provides periodic cost data related to TMs being developed under the terms of the contract. Reports are prepared and delivered in accordance with the TMCR and the CDRL.

5.7.2.13 Component Pilot Rework/Repair (CPR/R) package. If the SE item meets the repair and MP criteria cited in paragraph 5.7.2.14, and depot rework or intermediate repair requires specialized or new repair procedures, a CPR/R package shall be recommended and provided in accordance with the CDRL.

5.7.2.14 Rework standard. When the SE item is repairable and the approved MP indicates depot-level repair, a rework standard shall be developed in accordance with the requirements of MIL-STD-2078 and the CDRL.

5.7.2.15 Training. The following training data shall be provided in conjunction with the development of the LSA, CMRS, and MP, and in accordance with MIL-STD-1379 and the CDRL.

5.7.2.15.1 Training and Training Equipment Plan (TTEP). This comprehensive plan for providing training resulting from proposed SE shall be provided in accordance with the CDRL. This program/plan is evaluated as an integral part of the system/equipment proposal and is used to contract for the required training to be provided.

5.7.2.15.2 Training course proposals. These proposals contain cost and technical information on the acquisition of training courses and instructor training services. They are provided in accordance with the CDRL.

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5.7.2.15.3 Training Course/Curriculum Outlines. These outlines define scope, content, duration, and schedule of contractor-conducted courses. They shall be prepared in accordance with the CDRL.

5.7.2.15.4 Instructor/Lesson Guides - Training Courses. These guides are used to organize the instructor's presentation and to ensure that all required topics, subtopics, and related reference material are included in the presentation of procured training courses. Instructor Lesson Guides shall be prepared in accordance with the CDRL.

5.7.2.15.5 Student's Training Course Guide. This guide contains all information needed by the student to achieve training course objectives. This guide shall be prepared in accordance with the CDRL.

5.7.2.15.6 Audiovisual aids, master reproducibles, and review copies for training equipment and training courses. These data provide the Government with capability to duplicate and distribute additional copies of audiovisual aids provided with training equipment and related training courses. They shall be provided in accordance with the CDRL.

5.7.2.15.7 Tests to measure student achievement. These tests shall provide data in accordance with the CDRL necessary to measure student achievement in a training course.

5.7.2.15.8 Student and training course evaluation forms. These forms shall be provided in accordance with the CDRL. They are used to report on student training progress and to evaluate the course and related materials.

5.7.2.15.9 Factory training curriculum materials. These materials consist of all curriculum materials except training devices/hardware and TMs used in conducting a factory training course. Materials shall be prepared in accordance with the CDRL.

5.7.2.16 Contractor Engineering and Technical Services (CETS) plan. The CETS plan provides for factory training and on-site, on-the-job, informal, and formal training of test and operational personnel, and provides for advisory and liaison services other than training to support the system/equipment. CETS shall be provided in accordance with the CDRL.

5.7.2.17 Packaging, Handling, Storage, and Transportation (PHS&T). PHS&T requirements applicable to SE shall be provided in accordance with MIL-STD-648, MIL-STD-2073/1, MIL-STD-1367, and the CDRL.

5.7.2.18 Phased Support Plan (PSP). This plan identifies the logistics and maintenance support required to accomplish the maintenance plan, including mobilization and modification support requirements. It applies to acquisition programs for weapons systems and to maintenance, calibration, and training activities which support hardware and software.

5.7.3 ILS item delivery. All ILS data items required shall be delivered to the designated activities in accordance with dates specified in the CDRL. In no event shall delivery dates for required MPs, spares and repair parts, TMs, training and depot (commercial) maintenance capability (if required) occur

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after the delivery date of the first SE end item that is introduced to an operational activity. In the event that late deliveries of any of these ILS items are predicted by the contractor, the Government shall be immediately notified in writing.

5.7.4 Equipment records. Equipment record forms shall be prepared and delivered with the SE end item in accordance with DA PAM 738-751 and the CDRL.

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6. INFORMATION FOR GUIDANCE ONLY

6.1 Intended Use. Standards conforming to the requirements of this standard are intended for use as military standardization documents and are listed in the DODISS. The purpose of this standard is to standardize the acquisition of support equipment and related requirements.

6.2 Data requirements. The following Data Item Descriptions (DIDs) are sourced to this standard. They must be listed, as applicable, on the Contract Data Requirement List (DD Form 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 requirements for a DD Form 1423.

<u>Paragraph</u>	<u>DID Number</u>	<u>DID Title</u>
5.4.4	DI-ILSS-80040	Support Equipment Candidate List (SECL)
5.4.5	DI-ILSS-80118	LSA-070 SERD
5.7.2.10	DI-ILSS-80454	SE Installation Data (SEID)

The above DIDs were those cleared as of the date of this specification. 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 DIDs are cited on the DD Form 1423.

Those DIDs listed in Appendix A, Table 1, which are not cited above, form a part of this standard and are related to the detailed requirements of Section 5.

6.3. Subject term (key word) listing.

Integrated Logistics Support
 Integrated Logistics Support, Support Equipment
 Logistics Support Analysis
 Logistics Support Analysis Record
 Support Equipment
 Support Equipment, Common
 Support Equipment, Peculiar
 Support Equipment Recommendation Data

6.4 Changes from previous issue. Vertical lines or asterisks 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

APPLICATION AND TAILORING GUIDE

10. GENERAL

10.1 Scope. This appendix provides application guidance for use when this military standard is cited on a contract. It also identifies the data requirements that are frequently associated with this standard.

10.2 Purpose. The detailed requirements of paragraph 5 of this military standard prescribe the planning and processes to acquire SE, related ILS, and technical data. Since policy for acquisition streamlining is dynamic and since acquisitions range from the relatively simple to the complex, encompass off-the-shelf commercial items as well as state-of-the-art developments of a consumable or repairable nature, and may pertain to single service or multiservice applications, users of this standard will find it necessary to tailor the complete process to specific situations. Accordingly, Table 1 of this appendix was designed to assist Government and industry users engaged in developing or responding to SOW/ILSDS, CDRLs, and SE recommendations.

10.3 Application. This appendix is presented as a guide only. It offers a baseline of those DIDs that are related to Section 5 of this standard. Each DID should be reviewed in conjunction with each specific acquisition requirement to ensure that only essential data are requested/provided. A comprehensive DID listing once developed, should maximize the use of the data contained in the LSAR to preclude data development duplication. Some of the DIDs in Table 1 may be directly satisfied by LSAR output summaries. Refer to MIL-STD-1388-2, Appendix E for a list of current SE LSAR output summaries.

20. REFERENCED DOCUMENTS

20.1 Issues of documents. The documents, cited in Section 2 of this basic standard of the issue that is listed in the issue of the DODISS specified in the solicitation, are an integral part of this appendix.

30. DEFINITIONS

30.1 Definitions. The definitions presented in Section 3 of the basic standard also apply to this appendix.

40. GENERAL REQUIREMENTS

40.1 Contractual documents. The Government's requirement for SE end items is developed in two stages. First, end article contracts citing this standard and CDRLs based on the list of DIDs discussed herein will be developed to reflect the full spectrum of SE requirements. Second, during the SE recommendation process, these requirements will be tailored to needs on an item-by-item basis at appropriate Government/industry guidance conferences to ensure deliverable requirements are commensurate with the complexity of the specific end item.

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40.2 Ordering data. This military standard will be used primarily for acquiring PSE, PSE ILS, and related technical data including data for the selection of existing CSE for application to the end article. It is intended for use during all phases of the end article and ILS life cycle. If every requirement contained in paragraph 5 is to be incorporated into the end article contract, no tailoring of the standard is necessary. If some of the requirements contained in paragraph 5 are to be deleted or modified, specific language in the SOW is necessary to tailor the standard.

40.3 Data Item Descriptions (DIDs). The guidance in Table 1 may require adjustment for specific acquisition programs since it is based on typical theoretical programs, and since it is not unusual for some aspects of a development program to be in one phase and other aspects in another. The five Acquisition Phases are established in DOD Directive 5000.1. However, the production and operations support phases are combined in Table 1. Particular acquisitions will require tailoring down of certain DIDs. The initial selection of DIDs can be adjusted for the following considerations:

- a. The amount of design freedom.
- b. Time phasing adjustments if program is "fast track."
- c. Work already done.
- d. Data availability and relevancy.
- e. Time and resource availability.
- f. Desired tasks not in the standard.
- g. Procurement considerations.

Most of the factors above tend to reduce or restrict the amount of analysis activity. The DIDs cited are those listed in the Acquisition Management Systems and Data Requirements List, DOD 5010.12.L.

40.3.1 Duplicate DIDs. Some DIDs are applicable to and listed under more than one subject area. In those cases it is incumbent upon the requiring authority to determine whether that DID will serve the needs of all subject areas and only order that data one time. If the same DID is required in several subject areas with different data requirements, that DID should be tailored to each subject area in the corresponding CDRL.

50. DETAILED REQUIREMENTS

50.1 Applications. This appendix should be used to tailor the optimum range of acquisition, ILS, and technical data requirements stipulated throughout the entire military standard to specific SE end item acquisitions that may require less than the full range of acquisition and ILS considerations. This appendix may also be used to develop CSE contracts that benefit from the building-block approach developed herein.

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50.2 LSA Tailoring. The acquisition program for PSE, due to its nature, is often compressed in order for the SE to be fielded with the weapon system end item. The tailoring guidance for LSA contained in MIL-STD-1388-1 should be considered in the development of the SE end item ILS program. Many of the up-front LSA tasks, such as Task 101 (LSA Strategy), 102 (LSA Plan), 201 (Use Study), 203 (Comparative Analysis) and 204 (Technological Opportunities) should be accomplished by the contract end article LSA program. The outputs of these LSA tasks will be reflected in the development of the SERD and its supplemental data. Some broadly based guidelines for SE end item LSA should include but not be limited to tailoring the LSA to one of the following options:

- a. Conduct an R&M analysis on approved LSA candidates. Conduct a failure mode and effects criticality analysis (FMECA) in accordance with MIL-STD-1629, tailored appropriately. Based on these results perform a reliability-centered maintenance analysis. Based on the results of R&M analysis and FMECA, conduct corrective maintenance analysis. Based on the results of preventive and corrective maintenance analysis, conduct a task, skills, and timeline analysis. Based on the resulting maintenance task requirements, conduct a level of repair analysis in accordance with MIL-STD-1390. Repair Level Analysis performed for the Army and Air Force may utilize an analysis model as specified in the appropriate contract.
- b. Provide an analytically based MP for the SE item as specified in paragraph 50.2a, except that requirements for Reliability and Maintainability Analysis do not apply. The Government shall request quantitative and qualitative data for reliability and maintainability parameters as required.
- c. Provide an analytically based MP as specified in paragraph 50.2b, except that requirements for Servicing Requirements Analyses do not apply.
- d. Provide an analytically based MP as specified in paragraph 50.2a, except that requirements for Calibration Requirements Analyses do not apply.
- e. Provide an analytically based MP as specified in paragraph 50.2a, except that requirements for Computer-based Analysis and conduct of Level of Repair Analyses do not apply.
- f. Provide an analytically based MP as specified in paragraph 50.2a, except as modified by specific requirement shown in the SERD remarks.
- g. Develop a narrative MP (Part 1 only).
- h. The LSA and MP are not required.

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH - RELATED DID SAMPLING DOCUMENT DATE	DOCUMENT TITLE
		CE/D	D/V	FSD		
5.4.1	SUPPORT EQUIPMENT REQUIREMENTS/ANALYSIS STRATEGY	X	X	X	DI-S-3606 01NOV71	SYS/DESIGN TRADE STUDY REPORTS
5.4.1.1	SE STRATEGY/PROGRAM PLANS				DI-T-7199 25JAN85	TESTABILITY ANALYSIS REPORT
5.4.1.2	LSA STRATEGY REPORT		X	X	DI-A-6102 08FEB77	SUPPORT EQUIPMENT PLAN (SEP)
5.4.3.1	SE STANDARDIZATION	X	X	X	DI-T-7198 29JAN85	TESTABILITY PROGRAM PLAN
					DI-L-7017 11APR83	LOGISTIC SUPPORT ANALYSIS PLAN
					DI-E-7098 02OCT81	CONTRACTOR STANDARDIZATION PROGRAM PLAN
5.4.4	SYSTEM ENGINEERING		X	X	DI-E-7099 02OCT81	STANDARDIZATION STATUS REPORT
5.4.4.1	SUPPORT EQUIPMENT CANDIDATE LIST (SECL)	X	X	X	DI-S-3606 01NOV71	SYSTEM/DESIGN TRADE STUDY REPORTS
5.4.5	LSA-070, SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD)	X	X	X	DI-ILSS-80040 02JUN89	SUPPORT EQUIPMENT CANDIDATE LIST (SECL)
					DI-MGMT-80004 03MAY85	MANAGEMENT PLAN
					DI-ILSS-80118 20JAN87	LSA-070, SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD)
					DI-MGMT-80227 05SEP86	CONTRACTORS PROGRESS STATUS, AND MANAGEMENT REPORT
5.4.5.6	LOGISTIC ENGINEERING PROGRESS REPORT		X	X	UDI-R-21015 31JUL72	LOGISTIC ENGINEERING PROGRESS REPORT
5.6.1	ESTABLISHING DESIGN TEST AND TECHNICAL CHARACTERISTICS		X	X	DI-E-1111 15DEC69	MICROFILM OF ENGINEERING DOCUMENTS
					DI-E-1126 01MAY72	NOTICE OF REVISION/SPECIFICATION CHANGE NOTICE
					DI-MISC-80751 23JAN89	ENGLISH LANGUAGE TEST DESIGN DOCUMENT (ELTD)
					DI-E-1134 01MAY72	AIRWORTHINESS QUALIFICATION DATA (MILITARY AIRWORTHINESS STANDARD)
					DI-S-3619 09FEB70	TECHNICAL PERFORMANCE MEASUREMENT REPORT

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			DOCUMENT	PARAGRAPH - DATE	RELATED DID SAMPLING DOCUMENT TITLE
		CE/D	D/V	FSD			
					DI-S-4057	17OCT73	SCIENTIFIC AND TECHNICAL REPORT
					DI-E-5325	06OCT72	ENGINEERING DRAWINGS (COMMERCIAL)
					DI-E-5423	02MAY77	DESIGN REVIEW DATA PACKAGE
					DI-E-7042	09JAN80	DESIGN APPROVAL REQUEST FOR STANDARD ELECTRONIC MODULES PROGRAM (SEMP)
					DI-E-7043	21DEC77	STANDARD ELECTRONIC MODULES PROGRAM (SEMP) SPECIFICATION
					DI-E-7044	21DEC77	STANDARD ELECTRONIC MODULES PROGRAM (SEMP) REQUEST.
					DI-E-7045	21DEC77	REPORT, FAILURE ANALYSIS FOR THE STANDARD ELECTRONIC MODULES PROGRAM (SEMP)
					UOI-E-21342	03JUL74	EQUIPMENT SPECIFICATIONS
					DI-CMAN-80008	04JUN85	SYSTEM/SEGMENT SPECIFICATION
					DI-MCCR-80017	04JUN85	SOFTWARE TEST REPORT
					DI-MCCR-80025	04JUN85	SOFTWARE REQUIREMENTS SPECIFICATION
			X		DI-EMCS-80199	04AUG86	ELECTROMAGNETIC INTERFERENCE CONTROL PLAN
5.6.1.1.2	EM CONSIDERATIONS			X	DI-EMCS-80200	04AUG86	ELECTROMAGNETIC INTERFERENCE TEST REPORT
					DI-EMCS-80201	04AUG86	ELECTROMAGNETIC INTERFERENCE TEST PLAN
5.6.1.1.3	PARTS CONTROL PROGRAM		X		DI-MISC-80526	03FEB88	PARTS CONTROL PROGRAM PLAN
					DI-MISC-80071	13DEC85	PART APPROVAL REQUEST

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	CE/D	ACQUISITION PHASES			DOCUMENT	PARAGRAPH - DATE	RELATED DIO SAMPLING DOCUMENT TITLE
			D/V	FSD	PROD/OPS			
5.6.1.1.4.1	SYSTEM SAFETY PROGRAM PLAN (SSPP)	X	X	X	DI-SAFT-80100	20JAN86	PROGRAM PARTS SELECTION LIST (PPSL)	
					DI-SAFT-80102	20JAN86	SYSTEM SAFETY PROGRAM PLAN (SSPP)	
					DI-SAFT-80104	20JAN86	SAFETY ASSESSMENT REPORT	
					DI-SAFT-80105	20JAN86	WAIVER OR DEVIATION SYSTEM SAFETY REPORT	
					DI-SAFT-80101	20JAN86	SYSTEM SAFETY PROGRAM PROGRESS REPORT	
5.6.1.1.4.2	SYSTEM SAFETY HAZARD ANALYSIS REPORT	X	X	X	DI-R-2114	29AUG73	SYSTEM SAFETY HAZARD ANALYSIS REPORT	
5.6.1.1.5	RELIABILITY AND MAINTAINABILITY PROGRAM	X	X	X	DI-R-2129	16APR75	RELIABILITY ALLOCATION REPORT	
					DI-R-7040	21OCT77	MAINTAINABILITY DEMONSTRATION PLAN	
					DI-R-7079	14OCT80	BURN IN TEST REPORT	
					DI-R-7080	14OCT80	RELIABILITY PROGRAM PLAN	
					DI-R-7081	14OCT80	RELIABILITY STATUS REPORT	
					DI-R-7082	14OCT80	RELIABILITY MATHEMATICAL MODEL(S)	
					DI-R-7083	14OCT80	RELIABILITY PREDICTIONS REPORT	
					DI-R-7084	15DEC80	SNEAK CIRCUIT ANALYSIS REPORT	
					DI-R-7085	14OCT80	ELECTRONICS PARTS/CIRCUITS TOLERANCE ANALYSIS REPORT	
					DI-R-7086	14SEP84	FAILURE MODE, EFFECTS AND CRITICALITY ANALYSIS REPORT	
					DI-R-7094	06JAN81	FAILURE MODE, EFFECTS AND CRITICALITY ANALYSIS PLAN	
					DI-R-7094	18NOV81	RELIABILITY BLOCK DIAGRAMS AND MATHEMATICAL MODELS REPORT	

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH - RELATED DID SAMPLING DOCUMENT TITLE
		CE/D	D/V	FSD	
		PROD/OPS	DOCUMENT	DATE	
DI-R-7095				18NOV81	RELIABILITY PREDICTION AND DOCUMENTATION OF SUPPORTING DATA
DI-R-7103				03JAN83	MAINTAINABILITY PROGRAM PLAN
DI-4-7104				03JAN83	MAINTAINABILITY STATUS REPORT
DI-R-7106				03JAN83	MAINTAINABILITY MODELING REPORT
DI-R-7107				03JAN83	MAINTAINABILITY ALLOCATIONS REPORT
DI-R-7108				03JAN83	MAINTAINABILITY PREDICTIONS REPORT
DI-R-7109				03JAN83	MAINTAINABILITY ANALYSIS REPORT
DI-R-7110				03JAN83	MAINTAINABILITY DESIGN CRITERIA PLAN
DI-R-7112				03JAN83	MAINTAINABILITY DEMONSTRATION TEST PLAN
DI-R-7125				19JUL83	ENVIRONMENTAL DESIGN CRITERIA AND TEST PLAN
DI-R-7127				19JUL83	ENVIRONMENTAL TEST REPORT
UDI-R-21423				30JUL75	RELIABILITY STRESS ANALYSIS REPORT
DI-RELI-80247				17OCT86	THERMAL SURVEY REPORT
DI-RELI-80248				17OCT86	VIBRATION SURVEY REPORT
DI-RELI-80250				17OCT86	RELIABILITY TEST PLAN
DI-RELI-80251				17OCT86	RELIABILITY TEST PROCEDURES
DI-RELI-80252				17OCT86	RELIABILITY TEST REPORTS
DI-RELI-80253				17OCT86	FAILED ITEM ANALYSIS REPORT
DI-RELI-80254				17OCT86	CORRECTIVE ACTION PLAN

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES		PROD/OPS	PARAGRAPH - RELATED DID SAMPLING DOCUMENT TITLE	
		CE/D	D/V		FSD	DATE
5.6.2	DESIGN EXCEPTIONS	X	X	X	17OCT86	FAILURE SUMMARY AND ANALYSIS REPORT
5.6.4.1	ENGINEERING CHANGE PROPOSALS (ECPS)	X	X	X	03JAN83	MAINTAINABILITY DEMONSTRATION REPORT
5.6.4.4	CONFIGURATION MANAGEMENT (CM)	X	X	X	15JUL89	ENGINEERING CHANGE PROPOSAL
5.6.5	DESIGN REVIEWS	X	X	X	15JUL88	ENGINEERING CHANGE PROPOSAL (SHORT FORM)
5.6.6	ENGINEERING DRAWINGS AND ASSOCIATED LISTS	X	X	X	29FEB88	SOFTWARE DEVELOPMENT PLAN
5.6.7	SE NOMENCLATURE	X	X	X	06AUG87	CONFIGURATION MANAGEMENT PLAN
		X	X	X	27JAN72	CONFIGURATION STATUS ACCOUNTING REPORTS
		X	X	X	31MAY77	ENGINEERING DRAWINGS AND ASSOCIATED LISTS
		X	X	X	15AUG84	ASSIGNMENT OF NOMENCLATURE REQUEST
		X	X	X	15AUG84	ASSIGNMENT OF TYPE EQUIPMENT CODES REQUEST
		X	X	X	15AUG84	CONFIRMATION OF TYPE EQUIPMENT CODES REQUEST
		X	X	X	30JUL86	REQUEST FOR CONFIRMATION OF NOMENCLATURE
		X	X	X	30JUL86	REQUEST FOR ASSIGNMENT OF SERIAL NUMBER AND SERIAL NUMBER PREFIX LETTERS
5.6.8	END ITEM SPECIFICATIONS	X	X	X	30JUL86	REQUEST FOR APPROVAL OF IDENTIFICATION PLATE DRAWINGS
5.6.10	SUPPORT EQUIPMENT ILLUSTRATIONS (SEIs)	X	X	X	20MAY88	MILITARY SPECIFICATIONS
		X	X	X	08FEB77	SUPPORT EQUIPMENT ILLUSTRATIONS (SEI)

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH DOCUMENT	RELATED DTD SAMPLING DATE	DOCUMENT TITLE
		CE/D	D/V	FSD			
5.6.11	QUALITY ASSURANCE (QA) PROGRAM		X		DI-R-1701	15DEC69	PRODUCT ASSURANCE TEST, DEMONSTRATION AND EVALUATION PLAN
				X	DI-R-1724	15DEC69	QUALITY INSPECTION TEST, DEMONSTRATION AND EVALUATION REPORT
					DI-QCIC-80112	21JAN86	QUALITY ASSURANCE PROGRAM STATUS REPORT
5.6.12.1	FIRST ARTICLE TEST (FAT) PLAN		X		UDI-R-21374	24SEP75	QUALITY ASSURANCE PROGRAM PLAN
				X	UDI-R-21375	24SEP75	INSPECTION AND TEST PLAN
				X	DI-T-5315	12MAY77	FIRST ARTICLE QUALIFICATION TEST PLAN
5.6.12.3	PRODUCTION ACCEPTANCE TEST AND EVALUATION (PAT&E)		X		DI-T-2072	11AUG72	TEST REPORTS
				X	DI-T-2181	05OCT81	TEST REQUIREMENTS DOCUMENT
				X	DI-T-3714	18MAY77	ACCEPTANCE TEST PROCEDURES
				X	DI-T-3721	18MAY77	ACCEPTANCE TEST REPORTS
				X	DI-QCIC-80553	25MAR88	ACCEPTANCE TEST PLAN
				X	UDI-S-21060	31JUL72	TEST, EVALUATION OR DEMONSTRATION TEST ARTICLE CONFIGURATION (1)
				X	UDI-T-21347	03JUL74	TEST PROCEDURES
				X	UDI-T-21349	03JUL74	FIRST ARTICLE (PREPRODUCTION) TEST REPORT
				X	UDI-T-21350	03JUL74	DESIGN APPROVAL TEST REPORT
				X	DI-T-21553	02OCT81	SOURCE AND OBJECT PROGRAM LIST
				X	UDI-T-21554	02OCT81	TEST STRATEGY REPORT
				X	DI-T-23731	31MAY77	NOTIFICATION OF TESTS
				X	DI-MCCR-80015	04JUN85	SOFTWARE TEST DESCRIPTION

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES		PARAGRAPH DOCUMENT	DATE	RELATED DTD SAMPLING DOCUMENT TITLE
		CE/D	D/V			
				DI-ATTS-80041	24JUL85	TEST REQUIREMENTS DOCUMENT
				DI-ATTS-80282	15JAN87	TEST PROGRAM SET (TPS) AND OPERATIONAL TEST PROGRAM SET (OTPS) ACCEPTANCE TEST PROCEDURES (ATPS)
				DI-ATTS-80283	15JAN87	TEST PROGRAM SET (TPS) AND OPERATIONAL TEST PROGRAM SET (OTPS) ACCEPTANCE TEST REPORT
				DI-ATTS-80284	15JAN87	TEST PROGRAM SET DOCUMENT (TPSD)
5.6.15.2	PRICED SUPPORT EQUIPMENT LISTS (PSELS) AND REVISIONS	X		DI-V-6184	08FEB77	PROPOSED REVISION TO THE SUPPORT EQUIPMENT EXHIBIT (PRSEE)
				DI-V-6186	14APR77	PRICED SUPPORT EQUIPMENT LIST (PSEL)
5.6.16.1	DELIVERY SCHEDULE OF SE HARDWARE AND DATA	X	X	DI-P-6165	08FEB77	SUPPORT EQUIPMENT DELIVERY SCHEDULE/DELINQUENCY REPORT
5.6.17	COST REPORTS	X	X	DI-F-6127	08FEB77	SE END ITEM FUNDING REPORT (SEE IFR)
5.6.17.1	COST REPORTS, DD FORM 1921	X	X	DI-F-6006	05NOV73	COST DATA SUMMARY REPORT (DD FORM 1921)
5.6.17.2	COST REPORTS, DD FORM 1921-1	X	X	DI-F-6007	05NOV73	FUNCTIONAL COST HOUR REPORT (DD FORM 1921-1)
5.7.2.1.3	SE ILSMT MEETING AGENDA	X	X	DI-A-7088	18FEB81	CONFERENCE AGENDA
5.7.2.1.4	SE ILSMT MEETING MINUTES	X	X	DI-A-7089	18FEB81	CONFERENCE MINUTES
5.7.2.1.6	LOGISTIC ENGINEERING PROGRESS REPORT	X	X	UDI-R-21015	31JUL72	LOGISTIC ENGINEERING PROGRESS REPORT
5.7.2.2	SE SECTION OF THE END ARTICLE ISP	X	X	DI-ILSS-80395	31JUL72	INTEGRATED SUPPORT PLAN
5.7.2.3	LSA PROGRAM	X	X	DI-L-7017	11APR83	LOGISTIC SUPPORT ANALYSIS PLAN
5.7.2.3.2	SE LSAR DATA (IN LSAR SEQUENCE)	X	X	DI-ILSS-80114	21FEB86	LOGISTIC SUPPORT ANALYSIS RECORD (LSAR) DATA

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH - RELATED DID SAMPLING DOCUMENT TITLE	
		CE/D	D/V	FSD		
		PROD/OPS			DATE	
DI-L-7146					23JUL84	LSA-001, DIRECT ANNUAL MAINTENANCE MAN-HOURS REPORT
DI-L-7147					23JUL84	LSA-002, PERSONNEL AND SKILL SUMMARY REPORT
DI-L-7148					23JUL84	LSA-003, MAINTENANCE SUMMARY REPORT
DI-L-7189					23JUL84	(LSA-004) MAINTENANCE ALLOCATION CHART (PHAC)
DI-L-7149					23JUL84	LSA-005, SUPPORT ITEM UTILIZATION SUMMARY REPORT
DI-L-7150					23JUL84	LSA-006, CRITICAL MAINTENANCE TASK SUMMARY REPORT
DI-L-7151					23JUL84	LSA-007, SUPPORT EQUIPMENT REQUIREMENTS
DI-L-7152					23JUL84	LSA-008, SUPPORT ITEMS VALIDATION SUMMARY REPORT
DI-L-7153					23JUL84	LSA-009, SUPPORT ITEMS LIST REPORT
DI-L-7154					23JUL84	LSA-010, PARTS STANDARDIZATION SUMMARY REPORT
DI-L-7155					23JUL84	LSA-011, REQUIREMENTS FOR SPECIAL TRAINING DEVICE REPORT
DI-L-7156					23JUL84	LSA-012, REQUIREMENTS FOR FACILITY REPORT
DI-L-7157					23JUL84	LSA-013, SE GROUPING NUMBER UTILIZATION REPORT
DI-L-7158					23JUL84	LSA-014, TRAINING TASK LIST REPORT
DI-ILSS-80115					21FEB86	LSA-015, SEQUENTIAL TASK DESCRIPTION REPORT
DI-L-7190					23JUL84	(LSA-016) PRELIMINARY MAINTENANCE ALLOCATION CHART (PHAC)

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES		PARAGRAPH DOCUMENT	DATE	RELATED DTD SAMPLING DOCUMENT TITLE
		CE/D	D/V FSD			
	DI-L-7161				23JUL84	LSA-019 MAINTENANCE TASK ANALYSIS VALIDATION SUMMARY REPORT
	DI-L-7189				23JUL84	(LSA-020) MAINTENANCE ALLOCATION CHART (MAC)
	DI-L-7164				23JUL84	LSA-023, MAINTENANCE PLAN SUMMARY REPORT
	DI-L-55-80119				20JAN87	LSA-024, MAINTENANCE PLAN REPORT
	DI-L-7168				23JUL84	LSA-027, FAILURE/MAINTENANCE RATE SUMMARY REPORT
	DI-L-7188				23JUL84	LSA-029, REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
	DI-V-7016				06AUG84	(LSA-032) PROVISIONING AND OTHER PREPROCUREMENT SCREENING DATA
	DI-V-7002				06AUG84	(LSA-036) PROVISIONING PARTS LIST
	DI-V-7003				07AUG84	(LSA-036) SHORT FORM PROVISIONING PARTS LIST
	DI-V-7004				07AUG84	(LSA-036) LONG LEAD TIME ITEMS LIST
	DI-V-7005				06AUG84	(LSA-036) REPAIRABLE ITEMS LIST
	DI-V-7006				06AUG84	(LSA-036) INTERIM SUPPORT ITEMS LIST
	DI-L-7007				06AUG84	(LSA-036) TOOLS AND TEST EQUIPMENT LIST
	DI-L-7008				06AUG84	(LSA-036) COMMON AND BULK ITEMS LIST
	DI-L-7009				06AUG84	(LSA-036) DESIGN CHANGE NOTICE
	DI-L-7011				06AUG84	(LSA-036) POST CONFERENCE LIST

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES		PROD/OPS	PARAGRAPH - RELATED DIO SAMPLING	
		CE/D	O/V		DOCUMENT	DOCUMENT TITLE
	DI-L-7192	06AUG84			(LSA-036) SYSTEM CONFIGURATION PROVISIONING LIST	
	DI-L-7170	23JUL84			LSA-040, COMPONENT OF END ITEM (COEI) LIST REPORT	
	DI-L-7171	23JUL84			LSA-041, BASIC ISSUE ITEMS (BII) LIST REPORT	
	DI-L-7172	23JUL84			LSA-042, ADDITIONAL AUTHORIZA- TION LIST (AAL) REPORT	
	DI-L-7173	23JUL84			LSA-043, EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (ESHL) REPORT	
	DI-L-7174	23JUL84			LSA-050, RELIABILITY CENTERED MAINTENANCE (RCM) SUMMARY REPORT	
	DI-L-7175	23JUL84			LSA-051, RELIABILITY SUMMARY, REDESIGN REPORT	
	DI-L-7176	23JUL84			LSA-052, CRITICALITY ANALYSIS SUMMARY REPORT	
	DI-L-7177	23JUL84			LSA-053, MAINTAINABILITY ANALYSIS SUMMARY - LEVEL OF REPAIR REPORT	
	DI-L-7178	23JUL84			LSA-054, FAILURE MODE ANALYSIS SUMMARY REPORT	
	DI-L-7179	23JUL84			LSA-055, FAILURE MODE DETECTION SUMMARY REPORT	
	DI-ILSS-80116	21FEB86			LSA-060, LSA CONTROL NUMBER (LCN) MASTER FILE	
	DI-ILSS-80117	21FEB86			LSA-061, PARTS MASTER FILE	
	DI-ILSS-80118	20JAN87			LSA-070, SUPPORT EQUIPMENT RECOMMENDATION DATA	
	DI-ILSS-80288	20JAN87			LSA-072, TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) REQUIREMENTS SUMMARY REPORT	

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH DOCUMENT	DATE	RELATED DTD SAMPLING DOCUMENT TITLE
		CE/D	D/V	FSD			
					DI-ILSS-80291	20JAN87	LSA-077, DEPOT MAINTENANCE INTERSERVICE DATA SUMMARY
					DI-V-7193	06AUG84	(LSA-151) PROVISIONING PARTS LIST INDEX
5.7.2.3.3	LEVEL OF REPAIR (LOR) ANALYSIS		X		DI-L-2084	05SEP75	LOR (LEVEL OF REPAIR) PROGRAM PLAN
					DI-L-2085	05SEP75	LOR (LEVEL OF REPAIR) ANALYSIS REPORT
					DI-L-2155	05SEP75	LOR (LEVEL OF REPAIR) INPUT DATA REPORT
5.7.2.3.4	FMECA PLAN	X		X	DI-R-7086	06JAN81	FAILURE MODE, EFFECTS, AND CRITICALITY ANALYSIS PLAN
5.7.2.3.5	FMECA REPORT	X		X	DI-R-7085	14SEP84	FAILURE MODE, EFFECTS, AND CRITICALITY ANALYSIS REPORT
5.7.2.3.6	CALIBRATION/MEASUREMENT REQUIREMENTS SUMMARY (CMRS)	X		X	DI-QCIC-80278	31DEC86	CALIBRATION MEASUREMENT REQUIREMENTS SUMMARY (CMRS)
5.7.2.3.7	TASK AND SKILLS ANALYSIS REPORT	X		X	DI-H-7068	18FEB81	TASK AND SKILL ANALYSIS REPORT
5.7.2.4	SE MP				DI-S-3608	01NOV71	TIME LINE SHEETS
5.7.2.5	TYPE EQUIPMENT CODE (TEC) REPORT	X		X	DI-ILSS-80119	20JAN87	LSA-024, MAINTENANCE PLAN REPORT
		X		X	UDI-E-21586	15AUG84	ASSIGNMENT OF TYPE EQUIPMENT CODES REQUEST
					UDI-E-21587	15AUG84	CONFIRMATION OF TYPE EQUIPMENT CODES REQUEST
5.7.2.6.1	WORK UNIT CODE (WUC) ITEM LISTING	X		X	DI-M-2070	25JUL72	WORK UNIT CODE ITEM LISTING
5.7.2.7	PROVISIONING DATA	X		X	DI-V-6180	30APR71	RECOMMENDED REPAIR PARTS LIST (RRPL) (PREOPERATIONAL)
					DI-V-7016	06AUG84	PROVISIONING AND OTHER PREPROCUREMENT SCREENING DATA

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PARAGRAPH	SUBJECT	ACQUISITION PHASES		PARAGRAPH - RELATED DTD SAMPLING DOCUMENT TITLE				
		CE/D	D/V		FSD	PROD/OPS	DOCUMENT	DATE
				DI-P-7128	14OCT83			CONTRACTOR TECHNICAL INFORMATION CODING OF REPLENISHMENT PARTS
				DI-P-7129	14OCT83			TECHNICAL DATA IDENTIFICATION CHECK LIST
				UDI-A-22054	06FEB75			DISPOSITION OF GOVERNMENT-FURNISHED EQUIPMENT REQUEST
				DI-ILSS-80114	21FEB86			LOGISTIC SUPPORT ANALYSIS RECORD (LSAR) DATA
5.7.2.7.1	SUPPORT MATERIAL LIST (SML)	X		UDI-V-21042	30APR74	X		SUPPORT MATERIAL LIST (SML), PREOPERATIONAL (INTERIM)
5.7.2.7.2	CONSUMPTION USAGE REPORT	X		UDI-V-21043	30APR74	X		CONSUMPTION/USAGE REPORT
5.7.2.7.3	TRANSITION STATUS REPORT	X		UDI-V-21044	31JUL72	X		TRANSITION STATUS REPORT
5.7.2.7.4	RESIDUAL ASSET PREOPERATIONAL (INTERIM) REPORT	X		UDI-V-21045	30APR75	X		RESIDUAL ASSET REPORT, PRE-OPERATIONAL (INTERIM)
5.7.2.7.6	PROVISIONING TECHNICAL DOCUMENTATION (PTD)	X		DI-V-7006	06AUG84	X		INTERIM SUPPORT ITEMS LIST NOTE: PTD IS AVAILABLE THROUGH THE LSA-036 REPORT
5.7.2.7.7	PROVISIONING PARTS LIST INDEX (PLI)	X		DI-V-7193	06AUG84	X		PROVISIONING PARTS LIST INDEX
5.7.2.7.8	SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION (SPTD)	X		DI-V-7000	01FEB85	X		SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION
5.7.2.7.9	MANUFACTURER'S COMMERCIAL MANUAL (PROVISIONING)	X		DI-V-7001	01FEB85	X		MANUFACTURER'S COMMERCIAL MANUAL (PROVISIONING)
5.7.2.7.10	LIST OF STANDARD/MODIFIED HAND TOOLS (LSMHT)	X		DI-ILSS-80045	10SEP85	X		STANDARD AND MODIFIED HAND TOOLS LIST
5.7.2.8	MASTER INDEX OF REPAIRABLES	X		DI-ILSS-80289	20JAN87	X		LSA-074, SE TOOL LIST
5.7.2.10	SE INSTALLATION DATA (SEID)	X		DI-ILSS-80049	13SEP85	X		MASTER INDEX OF REPAIRABLES AND REPAIRABLE PROJECTION
		X		DI-ILSS-80454	06OCT87	X		SUPPORT EQUIPMENT INSTALLATION DATA (SEID)

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH DOCUMENT	DATE	RELATED O/D SAMPLING DOCUMENT TITLE
		CE/D	D/V	FSD			
5.7.2.11.1	FACILITIES REQUIREMENTS DOCUMENT (FRD)		X		UD1-P-21037	31JUL72	FACILITIES REQUIREMENTS FOR TYPICAL SHOREBASED AND SHIPBOARD SITES DOCUMENT
5.7.2.11.2	SITE EVALUATION REPORT		X		UD1-P-21038 UD1-P-21040	31JUL72	SITE EVALUATION REPORT DATA PACKAGE, SUPPORT SITE ACTIVATION
5.7.2.12	TECHNICAL MANUALS (THs)		X		DI-M-2194	28AUG84	MANUAL, TECHNICAL; QUALITY ASSURANCE PROGRAM PLAN
					DI-M-2195	28AUG84	MANUAL, TECHNICAL; VALIDATION PLAN
					DI-M-2196	28AUG84	MANUAL, TECHNICAL; VALIDATION CERTIFICATION
					DI-M-2197	28AUG84	MANUAL, TECHNICAL; EVALUATION RECORD
					DI-M-2198	28AUG84	MANUAL, TECHNICAL; VERIFICATION PLAN
					DI-M-2199	28AUG84	MANUAL, TECHNICAL; VERIFICATION PLANNING
					DI-M-2200	28AUG84	MANUAL, TECHNICAL; VERIFICATION SEQUENCE CONTROL CHART
			DI-M-2201	28AUG84	MANUAL, TECHNICAL; VERIFICATION INCORPORATION CERTIFICATION		
			DI-M-6154	30APR71		TECHNICAL MANUAL PLAN (THP)	
			DI-M-6155	30APR71		TECHNICAL MANUAL STATUS AND SCHEDULES	
			DI-M-6158	30APR71		TECHNICAL MANUAL DATA RESEARCH AND ANALYSIS SOURCE DATA	
			DI-E-21335	18MAR77		DIRECTIVE, TECHNICAL (AERONAUTICAL)	

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES			PARAGRAPH DOCUMENT	DATE	RELATED BID SAMPLING DOCUMENT TITLE
		CE/D	D/V	FSO			
					DI-H-30430	14DEC81	DEPT TECHNICAL DATA CONTROL MANUALS
5.7.2.12.1	MAINTENANCE REQUIREMENTS CARDS (MRCs)	X		X	DI-MCCR-80011	04JUN85	SOFTWARE STANDARDS AND PROCEDURES MANUAL
5.7.2.12.2	INSTRUMENT CALIBRATION PROCEDURES	X		X	DI-L-2215	12FEB85	PLANNED MAINTENANCE SYSTEM MAINTENANCE REQUIREMENT CARD
5.7.2.12.4	TM STATUS REPORT	X		X	DI-QCIC-80278	31DEC86	CALIBRATION AND MEASUREMENT REQUIREMENTS SUMMARY (CMRS)
5.7.2.12.5	REPORT OF TM COSTS	X		X	DI-A-2052	30JUN72	TECHNICAL MANUAL STATUS REPORT
5.7.2.14	REWORK STANDARD	X		X	DI-F-6126	30APR71	REPORT OF TECHNICAL MANUAL COSTS
5.7.2.15.1	TRAINING AND TRAINING EQUIPMENT PLAN (TTEP)	X		X	DI-L-21575	14DEC81	SUPPORT EQUIPMENT DEPOT LEVEL REWORK STANDARD
5.7.2.15.2	TRAINING COURSE PROPOSALS	X		X	DI-H-7066	18FEB81	TRAINING AND TRAINING EQUIPMENT PLAN
5.7.2.15.3	TRAINING COURSE/CURRICULUM OUTLINES	X		X	DI-H-7067	18FEB81	TRAINING COURSE PROPOSAL
5.7.2.15.4	INSTRUCTOR/LESSON GUIDES TRAINING COURSES	X		X	DI-H-7069	18FEB81	TRAINING COURSE/CURRICULUM OUTLINES
5.7.2.15.5	STUDENT'S TRAINING COURSE GUIDE	X		X	DI-N-7070	18FEB81	INSTRUCTOR/LESSON GUIDES - TRAINING COURSES
5.7.2.15.6	AUDIO VISUAL AIDS, MASTER REPRODUCIBLES, AND REVIEW COPIES FOR TRAINING COURSE	X		X	DI-H-7071	18FEB81	STUDENT'S TRAINING COURSE GUIDE
5.7.2.15.7	TESTS TO MEASURE STUDENT ACHIEVEMENT	X		X	DI-H-7072	18FEB81	AUDIO VISUAL AIDS, MASTER REPRODUCIBLES, AND REVIEW COPIES FOR TRAINING COURSE
5.7.2.15.8	STUDENT AND TRAINING COURSE EVALUATION FORMS	X		X	DI-H-7074	18FEB81	TESTS FOR MEASUREMENT OF STUDENT ACHIEVEMENT
		X		X	DI-ILSS-80046	10SEP85	STUDENT AND TRAINING COURSE EVALUATION FORMS

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH	SUBJECT	ACQUISITION PHASES		PROD/OPS	PARAGRAPH - RELATED DID SAMPLING DOCUMENT DATE	DOCUMENT TITLE
		CE/D	D/V			
5.7.2.16	CONTRACTOR ENGINEERING AND					
		X		X	24DEC74	CONTRACTOR ENGINEERING AND TECHNICAL SERVICES (CETS) PLAN
					UDI-H-21018	CETS (CONTRACTOR ENGINEERING AND TECHNICAL SERVICES) PLAN REQUIREMENTS
					UDI-E-23127	CONTRACTOR ENGINEERING AND TECHNICAL SERVICES (CETS) REPORT
					01-L-3321	TRANSPORTABILITY REPORT
5.7.2.17	PACKAGING, HANDLING, STORAGE AND TRANSPORTATION (PHS&T) REQUIREMENTS	X		X	07DEC72	TRANSPORTABILITY REPORT
					16JUL84	PACKAGING KIT CONTENTS LIST
					01-PACK-80120	PRESERVATION AND PACKING DATA
					21MAY86	SPECIAL PACKAGING INSTRUCTIONS (SPI)
					21MAY86	SPECIAL PACKAGING INSTRUCTIONS (SPI)
5.7.2.18	PHASED SUPPORT PLAN		X	X	08JUN87	PHASED SUPPORT PLAN
5.7.3	ILS ITEM DELIVERY		X	X	08FEB77	SUPPORT EQUIPMENT DELIVERY SCHEDULE/DELINQUENCY REPORT