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MILITARY STANDARD

**REQUIREMENTS FOR ACQUISITION OF END ITEMS OF
SUPPORT EQUIPMENT, ASSOCIATED INTEGRATED
LOGISTICS SUPPORT, AND RELATED
TECHNICAL DATA FOR AIR SYSTEMS**



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DEPARTMENT OF DEFENSE
Washington, DC 20301

Requirements for Acquisition of End Items of Support Equipment, Associated Integrated Logistics Support, and Related Technical Data for Air Systems.

MIL-STD-2097(AS)

1. This Military Standard is approved for use by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data that may be of use in improving this document should be addressed to: Naval Air Engineering Center, Engineering Specifications and Standards Department, Code 93, Lakehurst, New Jersey 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

3.1.15	Initial Stock 10	10
3.1.16	List of Standard/Modified Hand Tools (LSMHT) 10	10
3.1.17	Logistic Support Analysis (LSA) 10	10
3.1.18	Maintenance Plan (MP) 10	10
3.1.19	Material Support Date (MSD) 10	10
3.1.20	Navy Support Date (NSD) 10	10
3.1.21	Ordering Activity (OA) 11	11
3.1.22	Peculiar Support Equipment (PSE) 11	11
3.1.23	Procuring Contracting Officer (PCO) 11	11
3.1.24	Program Support Inventory Control Point (PSICP) 11	11
3.1.25	Requiring activity 11	11
3.1.26	SE critical item 11	11
3.1.27	SE end item 11	11
3.1.28	Support Equipment (SE) 11	11
3.1.29	Support Equipment Recommendation Data (SERD) 12	12
3.1.30	Sustaining engineering 12	12
3.1.31	Type Equipment Code (TEC) 12	12
3.1.32	Test Bench Installation 12	12
3.1.33	Work Unit Code (WUC) 12	12
3.2	Definitions of abbreviations and acronyms used in this standard 12	12

MIL-STD-2097(AS)

CONTENTS (Continued)

		<u>Page</u>
Paragraph 4.	GENERAL REQUIREMENTS	15
4.1	SE acquisition and ILS time schedule	15
5.	DETAILED REQUIREMENTS	16
5.1	Guidance conferences and initial information	16
5.1.1	Precontract guidance conference	16
5.1.2	Postcontract guidance conference	16
5.1.2.1	Initial information	16
5.1.3	Supplemental conferences	16
5.2	Funding requirements and authorization	16
5.3	SE recommendation process	17
5.3.1	SE requirements identification	17
5.3.2	Selection criteria	17
5.3.2.1	SE standardization and nonproliferation	17
5.3.2.1.1	"Avionics Preferred Common Support Equipment" (NAVAIR 16-1-525)	17
5.3.2.1.2	"Non-Avionics Preferred Common Support Equipment" (NAVAIR 19-1-127)	17
5.3.2.1.3	"Technical Information File of Support Equipment" (MIL-HDBK-300)	17
5.3.2.1.4	"Standard General Purpose Electronic Test Equipment" (MIL-STD-1364)	17
5.3.2.1.5	"Standard General Purpose Electronic Test Equipment Support Items" (MIL-HDBK-265)	18
5.3.2.1.6	Engineering Data Retrieval System (EDRS)	18
5.3.2.1.7	Avionics Systems Test Equipment Comparator (ASTEC)	18
5.3.2.1.8	Defense Integrated Data System (DIDS)	18
5.3.2.1.9	Other sources of data	18
5.3.2.1.9.1	Government-Industry Data Exchange Program (GIDEP)	18
5.3.2.1.9.2	"Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft" (NAVAIR 00-35QG-16)	18
5.3.3	Support Equipment Candidate List (SECL)	18
5.3.4	Support Equipment Recommendation Data (SERD)	18
5.3.4.1	Requirements for SERDs	18
5.3.4.1.1	SE for Government-furnished components	19
5.3.4.2	SERD exclusions	19
5.3.4.3	SERD submissions	19
5.3.4.3.1	Initial submission of SERDs	19
5.3.4.3.2	Subsequent submission of SERDs	20
5.3.4.4	SERD dispositions	20
5.3.4.5	SERD revisions	20
5.3.4.6	SERD status information	20
5.3.5	Early SE identification	20

MIL-STD-2097(AS)

CONTENTS (Continued)

		<u>Page</u>
Paragraph 5.4	Exceptional SE selection practices	20
5.4.1	Government-furnished SE	20
5.4.2	Vendor items	20
5.5	Acquisition	21
5.5.1	Establishing design characteristics	21
5.5.1.1	Design requirements, considerations, and constraints	24
5.5.1.1.1	Parts control program	24
5.5.1.1.2	System safety program	24
5.5.1.1.2.1	System Safety Program Plan (SSPP)	24
5.5.1.1.2.2	System safety hazard analysis report	24
5.5.1.1.3	Reliability and maintainability programs	24
5.5.1.1.4	Test Bench Installations (TBIs)	25
5.5.2	Design exceptions	25
5.5.3	Establishing SE configuration	25
5.5.4	SE design changes and configuration control	25
5.5.4.1	Engineering Change Proposals (ECPs)	25
5.5.4.2	Class I changes	25
5.5.4.2.1	Category A changes	25
5.5.4.2.2	Category B changes	26
5.5.4.2.3	Category C changes	26
5.5.4.2.4	Category D changes	26
5.5.4.2.5	Category E changes	26
5.5.4.3	Class II changes	27
5.5.4.4	ECPs and Configuration Management (CM)	27
5.5.5	Monitoring hardware design and development ...	27
5.5.6	SE engineering drawings and associated lists	27
5.5.7	SE nomenclature	27
5.5.8	Preparation of end item specifications	27
5.5.9	Establishment of Government/contractor liaison procedures for development and acquisition of designated SE critical items ..	27
5.5.10	Support Equipment Illustrations (SEIs)	28
5.5.11	Quality Assurance (QA) program	28
5.5.12	Test and evaluation	28
5.5.12.1	First Article Test (FAT)	28
5.5.12.2	Technical Evaluation (TECHEVAL)	28
5.5.12.2.1	Category I -- Items of PSE to be used at the organizational maintenance level	28
5.5.12.2.1.1	Priority 1 criteria	28
5.5.12.2.1.2	Priority 2 criteria	28
5.5.12.2.2	Category II -- Items of PSE to be used at the intermediate maintenance level	29
5.5.12.2.2.1	Priority 1 criteria	29
5.5.12.2.2.2	Priority 2 criteria	29

MIL-STD-2097(AS)

CONTENTS (Continued)

	<u>Page</u>
Paragraph 5.5.12.2.3	Category III -- All other items of PSE used at the organizational and intermediate maintenance levels not fitting Category I or II priorities 29
5.5.12.2.3.1	Priority 1 criteria 29
5.5.12.2.3.2	Priority 2 criteria 29
5.5.12.2.4	Category IV -- Depot items only 29
5.5.12.3	Production Acceptance Test and Evaluation (PAT&E) 29
5.5.13	Completion of data for periodic submission to CSEL 30
5.5.13.1	CSEL initial submission 30
5.5.13.2	CSEL revisions 30
5.5.13.3	CSEL reissues 30
5.5.14	Government-prepared SERDs 30
5.5.15	Acquisition review meeting 30
5.5.15.1	Establishing requirement for meetings 30
5.5.15.2	Contractor preparation for meetings 30
5.5.15.3	CSEL for acquisition review meetings 31
5.5.15.4	Meeting agenda 31
5.5.15.5	Actions resulting from acquisition review meetings 31
5.5.16	Ordering SE 31
5.5.16.1	Initial order 31
5.5.16.2	Follow-on orders 31
5.5.16.3	Changes to orders 31
5.5.16.3.1	Additions 31
5.5.16.3.2	Deletions 32
5.5.16.4	Priced Support Equipment Lists (PSELs) and revisions 32
5.5.17	Delivery of SE/hardware and data 32
5.5.17.1	Delivery schedule 32
5.5.17.2	Point of delivery 32
5.5.17.3	Delivery limitations 32
5.5.17.3.1	Marking of material 32
5.5.18	Funding reports 33
5.5.18.1	DD Form 1921 33
5.5.18.2	DD Form 1921-1 33
5.6	Integrated Logistics Support (ILS) 33
5.6.1	Ordering of ILS services and data 33
5.6.2	Logistics support requirements 33
5.6.2.1	ILS organization and management 34
5.6.2.1.1	ILS manager 34
5.6.2.1.2	ILS Management Team (ILSMT) meetings 34
5.6.2.1.3	ILSMT meeting agenda 34
5.6.2.1.4	ILSMT minutes 34
5.6.2.1.5	ILSMT action chits 34
5.6.2.1.6	Logistics engineering progress report 35
5.6.2.2	Integrated Logistics Support Plan (ILSP) 35

MIL-STD-2097(AS)

CONTENTS (Continued)

	<u>Page</u>
Paragraph 5.6.2.3	SE Logistics Support Analysis (LSA) 35
5.6.2.3.1	LSAR data 36
5.6.2.3.2	Reliability and maintainability program 36
5.6.2.3.3	Level of Repair Analysis (LORA) 36
5.6.2.3.4	Level of Repair (LOR) summary report 36
5.6.2.3.5	FMECA plan 36
5.6.2.3.6	FMECA report 36
5.6.2.3.7	Calibration/Measurement Requirements Summary (CMRS) 36
5.6.2.3.8	Task and skills analysis report 36
5.6.2.4	SE MP development 36
5.6.2.5	Type Equipment Code (TEC) 37
5.6.2.6	Work Unit Code (WUC) 37
5.6.2.6.1	WUC item listing 37
5.6.2.7	Supply support 37
5.6.2.7.1	Support Material List (SML) 37
5.6.2.7.2	Consumption usage report 37
5.6.2.7.3	Transition status report 37
5.6.2.7.4	Residual asset preoperational (interim) report 37
5.6.2.7.5	Interim Support Items List (ISIL) 38
5.6.2.7.6	Repair of Repairables (ROR) 38
5.6.2.7.7	Provisioning Technical Documentation (PTD) ... 38
5.6.2.7.8	Tools and test equipment list 38
5.6.2.7.9	Provisioning Parts List Index (PPLI) 38
5.6.2.7.10	Supplementary Provisioning Technical Documentation (SPTD) 38
5.6.2.7.11	Provisioning Parts List (PPL) 38
5.6.2.7.12	Short Form Provisioning Parts List (SFPPL) ... 38
5.6.2.7.13	Manufacturer or commercial manual 38
5.6.2.7.14	Search of DLSC screen 39
5.6.2.7.15	Long Lead Time Items List (LLTIL) 39
5.6.2.7.16	Repairable Items List (RIL) 39
5.6.2.7.17	Design Change Notice (DCN) 39
5.6.2.7.18	Post-Conference List (PCL) 39
5.6.2.7.19	Post-Conference Provisioning List (PCPL) 39
5.6.2.7.20	List of Standard/Modified Hand Tools (LSMHT) 39
5.6.2.8	Master Index of Repairables (MIR) 39
5.6.2.9	Calibration standards 39
5.6.2.10	SE Installation Data (SEID) 39
5.6.2.11	Facilities data 39
5.6.2.11.1	Facilities Requirements Document (FRD) 40
5.6.2.11.2	Site evaluation report 40
5.6.2.12	Technical Manuals (TMs) 40
5.6.2.12.1	Maintenance Requirements Cards (MRCs) 40
5.6.2.12.2	Technical Manual Data List (TMDL) and Technical Manual Data Card (TMDC) 40

MIL-STD-2097(AS)

CONTENTS (Continued)

		<u>Page</u>
Paragraph 5.6.2.12.3	TM status report	40
5.6.2.12.4	Report of TM costs	40
5.6.2.13	Component Pilot Rework/Repair (CPR/R) package	40
5.6.2.14	Rework standard	40
5.6.2.15	Training	40
5.6.2.15.1	Training and Training Equipment Plan (TTEP)	40
5.6.2.15.2	Training course proposals	41
5.6.2.15.3	Training course curriculum outlines	41
5.6.2.15.4	Instructor Lesson Guides - Training Courses	41
5.6.2.15.5	Student's Training Course Guide	41
5.6.2.15.6	Audiovisual aids, master reproducibles, and review copies for training equipment and training courses	41
5.6.2.15.7	Tests to measure student achievement	41
5.6.2.15.8	Student and training course evaluation forms	41
5.6.2.15.9	Factory training curriculum materials	41
5.6.2.16	Contractor Engineering and Technical Services (CETS) plan	41
5.6.2.17	Packaging, Handling, Storage, and Transportation (PHS&T)	41
5.6.3	IIS item delivery	42

<u>Appendix</u>		<u>Page</u>
A	APPLICATION AND TAILORING GUIDE	43
B	DATA REQUIREMENTS	54
C	DATA ITEM DESCRIPTION (DID) MATRIX	55

MIL-STD-2097(AS)

1. SCOPE

1.1 General. This standard prescribes the requirements for the acquisition of support equipment (SE) end items, associated integrated logistics support (ILS), and related technical data for use with end articles of military systems and equipment.

1.2 Application. This standard is to be used by contractor and acquiring activities in the identification, selection, production, distribution, and ILS of 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. However, various phases and applications may call for the following considerations.

1.2.1 Tailoring. The acquiring activity will review the contents of this standard to ensure that only essential requirements are contractually applied to a particular acquisition. Appendix A, Application and Tailoring Guide, will be used to develop statements of work and to select data item descriptions (DIDs) cited in contract data requirements lists (CDRLs) while Appendix C, DID Matrix, relates frequently called-out DIDs to specific pages and paragraphs in this standard.

MIL-STD-2097(AS)

2. REFERENCED DOCUMENTS

2.1 Issues of documents. Applicable documents, of the issue in effect on the date of Invitation For Bids or Request For Proposals/Quotations, form a part of this standard to the extent specified herein.

SPECIFICATIONS

MILITARY

DOD-D-1000	-	Drawings, Engineering and Associated Lists
MIL-C-4150	-	Case, Transit and Storage, Waterproof and Water-vaporproof
MIL-S-5944	-	Slings, Aircraft, General Specification for
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-Q-9858	-	Quality Program Requirements
MIL-M-15024	-	Plates, Tags, and Bands for Identification of Equipment
MIL-D-18300	-	Design Data Requirements for Avionic Equipment
MIL-T-18303	-	Test Procedures, Preproduction, Acceptance, and Life for Aircraft Electronic Equipment, Format for
MIL-N-18307	-	Nomenclature and Identification for Electronic, Aeronautical and Aeronautical Support Equipment Including Ground Support Equipment
MIL-D-23140	-	Drawing, Preliminary and Final, Electronic Equipment and Systems, Installation Control
MIL-M-23618	-	Manuals, Technical; Periodic Maintenance Requirements; Preparation of
MIL-T-28800	-	Test Equipment for Use With Electrical and Electronic Equipment, General Specifications for
MIL-M-38510	-	Microcircuit, General Specification for
MIL-M-38784	-	Manual, Technical: General Style and Format Requirements

MIL-STD-2097(AS)

SPECIFICATIONS (Continued)

MILITARY

- MIL-P-38790 - Printing Production of Technical Manuals, General Requirements for
- MIL-I-45208 - Inspection System Requirements
- MIL-M-81919 - Manuals, Technical: Support Equipment; Preparation of
- MIL-M-81927 - Manuals, Technical: General Style and Format of (Work Package Concept)
- MIL-M-81929 - Manuals, Technical, Illustrated Parts Breakdown (Work Package Concept); Preparation of
- MIL-D-81992 - Directives, Technical: Preparation of
- MIL-M-85337 - Manuals, Technical: Quality Assurance Program; Requirements for

STANDARDS

MILITARY

- DOD-STD-100 - Engineering Drawing Practices
- DOD-STD-480 - Configuration Control - Engineering Changes, Deviations and Waivers
- MIL-STD-12 - Abbreviations for Use on Drawings, Specifications, Standards, and in Technical Documents
- MIL-STD-129 - Marking for Shipment and Storage
- MIL-STD-130 - Identification Marking of US Military Property
- MIL-STD-143 - Standards and Specifications, Order of Precedence for the Selection of
- MIL-STD-196 - Joint Electronics Type Designation System
- MIL-STD-280 - Definitions of Item Levels, Item Exchangeability, Models, and Related Terms
- MIL-STD-470 - Maintainability Program Requirements (For Systems and Equipments)
- MIL-STD-471 - Maintainability Verification/Demonstration/Evaluation

MIL-STD-2097(AS)

STANDARDS (Continued)

MILITARY

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-648		Design Criteria for Specialized Shipping Containers
MIL-STD-680	-	Contractor Standardization Program Requirements
MIL-STD-721	-	Definitions of Terms for Reliability and Maintainability
MIL-STD-756	-	Reliability Modeling and Prediction
MIL-STD-780	-	Work Unit Codes for Aeronautical Equipment; Uniform Numbering System
MIL-STD-781	-	Reliability Design Qualification and Production Acceptance Tests: Exponential Distribution
MIL-STD-785	-	Reliability Program for Systems and Equipment Development and Production
MIL-STD-789	-	Contractor Technical Information Coding of Replenishment Parts
MIL-STD-794	-	Parts and Equipment, Procedures for Packaging of
MIL-STD-810	-	Environmental Test Methods
MIL-STD-831	-	Test Reports, Preparation of
MIL-STD-847	-	Format Requirements for Scientific and Technical Reports Prepared By or For the Department of Defense
MIL-STD-864	-	Support Equipment Functional Classification Categories

MIL-STD-2097(AS)

STANDARDS (Continued)

MILITARY

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-1189	-	Standard Symbology for Marking Unit Packs, Outer Containers, and Selected Documents
MIL-STD-1304	-	Reports: Reliability and Maintainability Engineering Data
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	-	DOD Requirements for a Logistic Support Analysis Record
MIL-STD-1390	-	Level of Repair
MIL-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-2097(AS)

STANDARDS (Continued)

MILITARY

- MIL-STD-1521 - Technical Reviews and Audits for Systems, Equipment, and Computer Programs
- MIL-STD-1556 - Government/Industry Data Exchange Program Contractor Participation Requirements
- MIL-STD-1561 - Provisioning Procedures, Uniform DOD
- MIL-STD-1629 - Procedures for Performing a Failure Mode, Effects and Criticality Analysis
- MIL-STD-1653 - Power Cable Assemblies
- MIL-STD-1679 - Weapons System Software Development
- MIL-STD-2068 - Reliability Development Tests
- 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 - Requirements for Preparation of Support Equipment Depot-Level Rework Standards
- MIL-STD-2084 - General Requirements for Maintainability of Avionic and Electronic Systems and Equipment
- MIL-STD-2096 - Microcircuit Data 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
- MIL-HDBK-265 - Standard General Purpose Electronic Test Equipment Support Items

MIL-STD-2097(AS)

HANDBOOKS (Continued)

MILITARY

MIL-HDBK-300	-	Technical Information File of Ground Support Equipment
MIL-HDBK-472	-	Maintainability Prediction
HDBK-H6	-	Federal Item Name Directory (FIND) for Supply Cataloging

PUBLICATIONS

MILITARY

DOD 4100.38-M	-	Department of Defense Provisioning and Other Preprocurement Screening Manual
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

(Copies of specifications, standards, drawings, and publications required by contractors should be obtained as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated, the issue in effect on the date of Invitation For Bids or Request For Proposals/Quotations shall apply.

MIL-STD-2097(AS)

AMERICAN NATIONAL STANDARDS INSTITUTE

- IEEE-STD-200-75 - Electrical and Electronic Parts and Equip-
ments, Reference Designation for
- IEEE-STD-315-75 - Graphic Symbols for Electrical and Elec-
tronic Diagrams (Including Reference Des-
ignation Class Designation Letters)
- IEEE-STD-716-1982 - C/Atlas Test Language
- IEEE-STD-771-1981 - Atlas Users' Guide

(Application for copies should be addressed to the American National Stand-
ards Institute, Inc., 1430 Broadway, New York, NY 10018.)

MIL-STD-2097(AS)

3. DEFINITIONS

3.1 Definitions used in this standard. For the purpose of this standard, the following definitions apply:

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 acquiring activity is not used in lieu of 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, demonstration and validation, full-scale development, or production and deployment phases of the weapon systems/equipment project.

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

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

3.1.5 Automatic Test Equipment (ATE). Electronic SE devices capable of automatically or semiautomatically generating and independently furnishing programmed stimuli; measuring selected parameters of an electronic, mechanical, or electromechanical item being tested; and making a comparison to accept or reject the measured values in accordance with predetermined limits.

3.1.6 Common Support Equipment (CSE). Comprises only those general-purpose items supplying or measuring broad parameters of physical properties, such as electrical, pneumatic, and hydraulic power units, towing, hoisting, and fueling devices, signal generation devices, voltage, amperage, and phase measuring devices, etc., that are known to be established in the using service's inventory. The application of SE items to other end articles, systems, or components does not in itself categorize the item as CSE.

3.1.7 Consolidated Support Equipment List (CSEL). A summary of Government decisions on contractor's SE recommendations and other pertinent data relative to support of the end article. The list is a compilation of selected data contained in individual sections of the SERD. The lists are used by Government agencies for reflecting SE unit allowance/authorization requirements and status of certain logistics elements.

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.

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.

MIL-STD-2097(AS)

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 the Naval Air Engineering Center (NAVAIRENGCEN), Naval Avionics Center (NAVAVIONICCEN), Pacific Missile Test Center (PACMISTESTCEN), and the Naval Air Technical Services Facility (NAVAIRTECHSERVFAC).

3.1.11 Development activity. The field activity or contractor assigned 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, aeronautical systems during production, conversion, or modification.

3.1.15 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.

3.1.16 List of Standard/Modified Hand Tools (LSMHT). Information required to facilitate screening and proper logistics action for standard tools. The list allows the using commands to plan properly for the required hand tools.

3.1.17 Logistic Support Analysis (LSA). The selective application of scientific and engineering efforts undertaken during the acquisition process, as part of the system engineering and design process, to assist in complying with supportability and other ILS objectives.

3.1.18 Maintenance Plan (MP). The plan for maintaining a particular airborne 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 airborne system/equipment or SE end item maintenance requirements and their associated SE hardware requirements.

3.1.19 Material Support Date (MSD). The date when the Government assumes responsibility for all spares and repair parts of a weapon system, subsystem, SE end item, or training device at fleet operational sites and carriers.

3.1.20 Navy Support Date (NSD). The date on which the Navy assumes full support responsibility for a weapon system. Under certain conditions, this full support responsibility may exclude peculiar equipment or assemblies (as directed by the acquiring activity) from the Navy support responsibility for a fixed period of time. During this period, this peculiar equipment or these assemblies remain under contractor support.

MIL-STD-2097(AS)

3.1.21 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.

3.1.22 Peculiar Support Equipment (PSE). SE that must be designed and developed in conjunction with the development of an end article and that does not meet the criteria of CSE.

3.1.23 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.

3.1.24 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.

3.1.25 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).

3.1.26 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.

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

3.1.28 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 to install, launch, arrest (except Navy shipboard and shorebased 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) subcategories 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.

MIL-STD-2097(AS)

- e. Items used only by the contractor.
- f. Personal equipment (e.g., headsets, microphones).
- g. Off-line automatic data processing (ADP) equipment.

3.1.29 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.

3.1.30 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 and CSELs; 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.

3.1.31 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.

3.1.32 Test Bench Installation (TBI). Those Weapon Replaceable Assemblies (WRAs) installed in a test bench harness/test set/test console which are required to simulate in a shipboard or shorebased maintenance shop a system, assembly, or component of the end article for the purpose of accomplishing all necessary operational maintenance test and repair procedures.

3.1.33 Work Unit Code (WUC). A 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. ADP - Automatic Data Processing
- c. ASTEC - Avionics Systems Test Equipment Comparator

MIL-STD-2097(AS)

d. ATE	- Automatic Test Equipment
e. CDRL	- Contract Data Requirements List (DD Form 1423)
f. CETS	- Contractor Engineering and Technical Services
g. CFE	- Contractor-Furnished Equipment
h. CM	- Configuration Management
i. CMRS	- Calibration/Measurement Requirements Summary
j. CPR/R	- Component Pilot Rework/Repair
k. CSE	- Common Support Equipment
l. CSEL	- Consolidated Support Equipment List
m. DCAS	- Defense Contract Administration Service
n. DCN	- Design Change Notice
o. DID	- Data Item Description
p. DIDS	- Defense Integrated Data System
q. DPA	- Designated Procuring Activity
r. DLSC	- Defense Logistics Services Center
s. ECP	- Engineering Change Proposal
t. EDRS	- Engineering Data Retrieval System
u. EIS	- End Item Specification
v. EMC	- Electromagnetic Compatibility
w. FAT	- First Article Test
x. FCI	- Functional Configuration Identification
y. FMECA	- Failure Mode, Effects, and Criticality Analysis
z. FRD	- Facilities Requirements Document
aa. GFE	- Government-Furnished Equipment
ab. GIDEP	- Government-Industry Data Exchange Program
ac. GPETE	- General-Purpose Electronic Test Equipment
ad. GSI	- General-Purpose Electronic Test Equipment Support Item
ae. ICP	- Instrument Calibration Procedures
af. ILS	- Integrated Logistics Support
ag. ILSDS	- ILS Detail Specification
ah. ILSMT	- Integrated Logistics Support Management Team
ai. ILSP	- Integrated Logistics Support Plan
aj. LLTIL	- Long Lead Time Items List
ak. LORA	- Level of Repair Analysis
al. LSA	- Logistics Support Analysis
am. LSAR	- Logistics Support Analysis Record
an. LSMHT	- List of Standard/Modified Hand Tools
ao. MDCS	- Maintenance Data Collection Subsystem
ap. MILSTAMP	- Military Standard Transportation and Movement Procedures
aq. MILSTRIP	- Military Standard Requisitioning and Issue Procedures
ar. MIR	- Master Index of Repairables
as. MP	- Maintenance Plan
at. MRC	- Maintenance Requirements Card
au. MSD	- Material Support Date
av. NAVAIR	- Naval Air Systems Command
aw. NAVAIRENGCEN	- Naval Air Engineering Center
ax. NAVAVNLOGCEN	- Naval Aviation Logistics Center
ay. NAVAIRTECH- SERVFAC	- Naval Air Technical Services Facility
az. NSD	- Navy Support Date
ba. NSN	- National Stock Number
bb. OA	- Ordering Activity

MIL-STD-2097(AS)

bc.	PACMISTESTCEN	-	Pacific Missile Test Center
bd.	PCL	-	Post-Conference List
be.	PCO	-	Procuring Contracting Officer
bf.	PCPL	-	Post-Conference Provisioning List
bg.	PHS&T	-	Packaging, Handling, Storage, and Transportation
bh.	PN	-	Part Number
bi.	PPL	-	Provisioning Parts List
bj.	PPLI	-	Provisioning Parts List Index
bk.	PPS	-	Provisioning Performance Schedule
bl.	PPSL	-	Program Parts Selection List
bm.	PRS	-	Provisioning Requirements Statement
bn.	PSE	-	Peculiar Support Equipment
bo.	PSEL	-	Priced Support Equipment List
bp.	PSICP	-	Program Support Inventory Control Point
bq.	PTD	-	Provisioning Technical Documentation
br.	PTDDSS	-	Provisioning Technical Documentation Data Selection Sheet
bs.	QA	-	Quality Assurance
bt.	RIL	-	Repairable Items List
bu.	ROR	-	Repair of Repairables
bv.	SE	-	Support Equipment
bw.	SECL	-	Support Equipment Candidate List
bx.	SEI	-	Support Equipment Illustration
by.	SEID	-	Support Equipment Installation Data
bz.	SERD	-	Support Equipment Recommendation Data
ca.	SFPPL	-	Short Form Provisioning Parts List
cb.	SML	-	Support Material List
cc.	SM&R	-	Source, Maintenance, and Recoverability
cd.	SOW	-	Statement of Work
ce.	SRA	-	Shop Replaceable Assembly
cf.	SSPP	-	System Safety Program Plan
cg.	TBI	-	Test Bench Installation
ch.	TEC	-	Type Equipment Code
ci.	TECHEVAL	-	Technical Evaluation
cj.	TM	-	Technical Manual
ck.	TMCR	-	Technical Manual Contract Requirement
cl.	TMDC	-	Technical Manual Data Card
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

MIL-STD-2097(AS)

4. GENERAL REQUIREMENTS

4.1 SE acquisition and ILS time schedule. The time cycles and limitations established in paragraph 5 of this document are maximums. When necessary to provide timely support by operational need dates, different time schedules will be mutually established at appropriate guidance conferences.

4

MIL-STD-2097(AS)

5. DETAILED REQUIREMENTS

5.1 Guidance conferences and initial information. The acquiring activity will establish firm dates for necessary conferences. 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 below.

5.1.1 Precontract guidance conference. If a prospective offeror requires guidance or clarification relative to any requirements cited in this standard or related DIDs, a request for guidance information may be made to the contracting officer by an offeror as part of the precontractual source selection proceedings. The conference will be held within 15 days after receipt of an offeror's proposal regarding the extent of work to be performed under the applicable requirements contained in this standard. Submission requirements, approval times, applicability of specifications and standards other than those cited herein, and appropriate data requirements, are typical areas discussed during these conferences.

5.1.2 Postcontract guidance conference. A date for convening a postcontract guidance conference will be established, based on the recommendation of the contractor. Specific questions or a proposed agenda of the guidance meeting shall be included in this recommendation. The date recommended shall be at the earliest possible mutually acceptable date but not later than 30 days after award of the initial contract. The purpose of this conference will be to provide the contractor with policy direction and guidance concerning the requirements of this document and applicable DIDs.

5.1.2.1 Initial information. With the executed copy of the end article contract, the acquiring activity will normally furnish the contractor with complete program data on the employment and deployment of the end article. Such information will be revised as required to provide the contractor with the latest information on planned employment and materiel support for the end article on contract. If such information is not furnished with the contract, it will be furnished to the contractor at the time of the guidance conference.

5.1.3 Supplemental conferences. When it is determined that subsequent conferences must be held, the acquiring activity and the contractor will establish mutually acceptable dates for convening such conferences. When required, they will be convened at the call of the acquiring activity.

5.2 Funding requirements and authorization. Within 10 days 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).

SE identified in this process shall be submitted on the SE candidate list for Government consideration.

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

- a. Use existing CSE.
- b. Use PSE currently in the Government inventory for which procurement data are available.
- c. Use modified existing CSE, PSE, or commercial equipment.
- d. Use off-the-shelf commercial equipment.
- e. Develop new PSE to meet the requirement.

5.3.2.1 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 when a selection is recommended to the Government.

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

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

5.3.2.1.3 "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. It is especially useful in supplementing information contained in preferred item lists.

5.3.2.1.4 "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.

MIL-STD-2097(AS)

5.3.2.1.5 "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.

5.3.2.1.6 Engineering Data Retrieval System (EDRS). This automated file can be accessed by terminal and telephone line using information provided by NAVAIR-ENGECEN (Code 924) to permit SE information search by noun name and functional characteristic(s) or part number (PN). Additionally, the data base contains performance parameters for all equipment to ensure that new purchases/specifications do not unnecessarily duplicate existing capabilities or equipment.

5.3.2.1.7 Avionics Systems Test Equipment Comparator (ASTEC). This automated file is managed by NAVAIRENGECEN (Code 925) to provide computer-assisted selection, matching, and analysis for specifications and requirements to determine the existence of available ATE.

5.3.2.1.8 Defense Integrated Data System (DIDS). The DIDS is managed by the Defense Logistics Services Center (DLSC) as an on-line system designed to review, store, process, and disclose item identification by physical/performance characteristics. The DIDS can respond to requests and output responses including item manufacturer, source of supply within the Government, unit price, interchangeability, substitutability, and standardization data in hard copy, punch card, magnetic tape, or electronic transmission format.

5.3.2.1.9 Other sources of data.

5.3.2.1.9.1 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.

5.3.2.1.9.2 "Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft" (NAVAIR 00-35QG-16). This hard copy publication identifies tools and other specific types of items that are to be excluded from the SERD preparation process.

5.3.3 Support Equipment Candidate List (SECL). The SECL shall be prepared and delivered in accordance with the CDRL to present a consolidated 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.

5.3.4 Support Equipment Recommendation Data (SERD).

5.3.4.1 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

MIL-STD-2097(AS)

requirements identified on the SERD should be traceable to the analytical LSA 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 facility items such as machine lathes, generator test stands, etc., that only partially support air systems requirements.

5.3.4.1.1 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.

5.3.4.2 SERD exclusions. SERDs shall not be prepared for the following items or classes of equipment:

- a. Common powered and nonpowered hand tools.
- b. Housekeeping items.
- c. Office furniture and equipment.
- d. Items common to all activities, defined in applicable allowance lists and required as indirect support.
- e. Common production tools and tooling, e.g., lathes, drill presses, plating equipment, grinders, induction heaters, etc.
- f. Items used only by the contractor.
- g. Personal equipment, e.g., headsets, microphones.
- h. Off-line ADP equipment.

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.

5.3.4.3 SERD submissions. A SERD shall be prepared and submitted for each item of SE required to satisfy functional requirements identified and documented 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.

5.3.4.3.1 Initial submission of SERDs. Initial SERDs shall be submitted no later than 30 days after the LSA process for the end article identifies the need for SE. Submission of SERDs shall include all budgeting pricing, including the separate price out of required ILS services and data.

MIL-STD-2097(AS)

5.3.4.3.2 Subsequent submission of SERDs. Unless otherwise specified in the contract, subsequent SERDs shall be submitted at 30-day intervals to provide the Navy with sufficient time to review the proposed SE items and authorize procurement and delivery to support the first end article delivered to the Navy. More frequent submissions may be made under mitigating circumstances involving engineering, procurement, critical, or safety of flight considerations.

5.3.4.4 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 or deletion, deletion pending further information from the contractor, or is being held pending the availability of funding.

5.3.4.5 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.

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

5.3.5 Early SE identification. 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.

5.4 Exceptional SE selection practices.

5.4.1 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.

5.4.2 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 the part of the Government or prime contractor. Any item selected for subsequent

MIL-STD-2097(AS)

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.

5.5 Acquisition.

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

DOD-D-1000	Drawings, Engineering and Associated Lists
MIL-C-4150	Case, Transit and Storage, Waterproof and Water-Vaporproof
MIL-S-5944	Slings, Aircraft, General Specification for
MIL-S-8512	Support Equipment, Aeronautical, Special General Specification for the Design of
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; Preproduction, Acceptance, and Life for Aircraft Electronic Equipment, Format for
MIL-N-18307	Nomenclature and Identification for Electronic, Aeronautical and Aeronautical Support Equipment Including Ground Support Equipment
MIL-D-23140	Drawing, Preliminary and Final, Electronic Equipment and Systems, Installation Control
MIL-T-28800	Test Equipment for Use With Electrical and Electronic Equipment, General Specification for
MIL-M-38516	Microcircuit, General Specification for
MIL-I-45208	Inspection System Requirements
DOD-STD-100	Engineering Drawing Practices
DOD-STD-480	Configuration Control - Engineering Changes, Deviations and Waivers

MIL-STD-2097(AS)

MIL-STD-12	Abbreviations for Use on Drawings, Specifications, Standards and in Technical Documents
MIL-STD-130	Identification Marking of US Military Property
MIL-STD-143	Standards and Specifications, Order of Precedence for the Selection of
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 Requirements (For Systems and Equipments)
MIL-STD-471	Maintainability Verification/Demonstration/Evaluation
MIL-STD-480	Configuration Control - Engineering Changes, Deviations, and Waivers
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 Design Qualification and Production Acceptance Tests: Exponential Distribution
MIL-STD-785	Reliability Program for Systems and Equipment Development and Production
MIL-STD-810	Environmental Test Methods
MIL-STD-831	Test Reports, Preparation of
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

Equipment

MIL-STD-1365	General Design Criteria for Handling Equipment Associated with Weapons and Related Items
MIL-STD-1378	Requirements for Employing Standard Electronic Modules
MIL-STD-1388-1	Logistic Support Analysis
MIL-STD-1388-2	DOD Requirements for a Logistic Support Analysis Record
MIL-STD-1456	Contractor Configuration Management Plans
MIL-STD-1472	Human Engineering Design Criteria for Military Systems, Equipment and Facilities
MIL-STD-1629	Procedures for Performing a Failure Mode, Effects and Criticality Analysis
MIL-STD-1653	Power Cable Assemblies
MIL-STD-1679	Weapons System Software Development
MIL-STD-2068	Reliability Development Tests
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-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-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 Designation for

MIL-STD-2097(AS)

IEEE-STD-315-75	Graphic Symbols for Electrical and Electronic Diagrams (Including Reference Designation Class Designation Letters)
IEEE-STD-716-1982	C/Atlas Test Language
IEEE-STD-771-1981	Atlas Users' Guide

5.5.1.1 Design requirements, considerations, and constraints.

5.5.1.1.1 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 and a proposed program parts selection list (PPSL) shall be developed as specified in MIL-STD-965, the contract, and the CDRL.

5.5.1.1.2 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.

5.5.1.1.2.1 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.

5.5.1.1.2.2 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.

5.5.1.1.3 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.

MIL-STD-2097(AS)

5.5.1.1.4 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.

5.5.2 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.

5.5.3 Establishing SE configuration. Configuration control of SE end items in accordance with the requirements of DOD-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 the SERD process.

- 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.

5.5.4 SE design changes and configuration control.

5.5.4.1 Engineering Change Proposals (ECPs). ECPs shall be submitted in accordance with DOD-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.

5.5.4.2 Class I changes. If, after establishment of the product baseline configuration of an item of SE, it is considered necessary to change the design, or to eliminate, supersede, or add items of SE because of any of the following conditions, the appropriate action as described below shall be selected and initiated.

5.5.4.2.1 Category A changes.

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

MIL-STD-2097(AS)

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.

5.5.4.2.2 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 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. The approving authority will initiate the necessary action on the superseded SERDs.

5.5.4.2.3 Category C changes.

Condition: Change in end article dictates requirement for new item(s) of SE that supersede(s) existing item(s). Superseded item(s) may 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. Unless otherwise authorized by the approving authority, a separate SERD reflecting a general description of the modification material required for each superseded SE item shall also be included. The SERD item name block will reflect "KIT-MOD." In the event that modification material is not required from the contractor, the SERD item name will be "TECH DIRECTIVE" and further SERD data will be provided as appropriate. 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. The approving authority will initiate the necessary action on the superseded SERDs.

5.5.4.2.4 Category D changes.

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

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. If modification is required, and unless otherwise authorized by the approving authority, submit a separate KIT-MOD or TECH DIRECTIVE SERD as specified for Category C changes. 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. The approving authority will initiate the necessary action on the superseded SERD.

5.5.4.2.5 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.

MIL-STD-2097(AS)

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. If modification is required, follow procedures for Category C and submit a separate SERD reflecting the general description of the modification material required. The approving authority will initiate the necessary action on the superseded SERD.

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

5.5.4.4 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.

5.5.5 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 review and critical design review and physical and functional configuration audits conducted in accordance with MIL-STD-1521.

5.5.6 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-1679, MIL-STD-2076, and MIL-STD-2077.

5.5.7 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.

5.5.8 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-490 and MIL-STD-961.

5.5.9 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.

MIL-STD-2097(AS)

5.5.10 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 for weapons system end articles and/or equipment on the SE lists. The SEIs shall be provided in accordance with the CDRL.

5.5.11 Quality Assurance (QA) program. A QA program for SE shall be conducted in accordance with the applicable portions of MIL-Q-9858. A QA program plan for SE will be developed or updated as required by the CDRL.

5.5.12 Test and evaluation.

5.5.12.1 First Article Test (FAT). 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.

5.5.12.2 Technical Evaluation (TECHEVAL). Categories and priorities shall be recommended on the SERD for Government TECHEVAL of the PSE end item.

5.5.12.2.1 Category I -- Items of PSE to be used at the organizational maintenance level.

5.5.12.2.1.1 Priority 1 criteria.

- a. Item is ground safety essential to protect personnel during normal flight-line operating conditions when the weapon system is in a static or dynamic state. (Normal flight-line operating conditions are defined as those activities associated with the handling, inspection, servicing, engine starting, and aircraft system operational checks before taxiing and after return from flight.)
- b. Item is essential to protect the weapon system from damage during normal flight-line operations when the aircraft is in a static or dynamic condition.
- c. Item is essential to protect personnel from injury while line/hangar maintenance is being performed.
- d. Item supports operational checkout and maintenance of the weapon system flight emergency/safety subsystems.
- e. Item supports operational checkout and maintenance of the weapon system flight-essential subsystems.

5.5.12.2.1.2 Priority 2 criteria.

- a. Item supports operational checkout and maintenance of primary mission-essential subsystems.
- b. Item supports maintenance of high-failure-rate subsystems. (High-failure-rate subsystem is defined as a subsystem having a predicted/demonstrated mean operating time between corrective maintenance of less than 60 hours.)
- c. Item supports advanced technology subsystems or the item itself uses advanced technology.

MIL-STD-2097(AS)

- d. Item requires unique facilities requirements (power/environment).
- e. Item requires unique operator training before use.

5.5.12.2.2 Category II -- Items of PSE to be used at the intermediate maintenance level.

5.5.12.2.2.1 Priority 1 criteria.

- a. Item is essential to protect personnel from injury during handling/maintenance.
- b. Item protects weapons replaceable assemblies (WRAs)/shop replaceable assemblies (SRAs) from damage during handling/maintenance.
- c. Item supports maintenance of WRAs/SRAs that are components of the weapon system's emergency/safety subsystems.
- d. Item supports maintenance of WRAs/SRAs that are components of the weapon system's primary mission essential subsystems.

5.5.12.2.2.2 Priority 2 criteria.

- a. Item supports maintenance of WRAs/SRAs that exhibit a high predicted or demonstrated failure rate. (High failure rate means less than 60 mean operating hours between corrective maintenance.)
- b. Item must directly interface with other SE to perform its function.
- c. Item supports advanced technology component or the item itself uses advanced technology.
- d. Item requires unique facilities requirements (power/environment).
- e. Item requires unique operator training before use.
- f. Item supports maintenance of PSE used to maintain weapon system emergency, safety, flight-essential, and primary mission-essential subsystems and associated WRA/SRAs (PSE for PSE).

5.5.12.2.3 Category III -- All other items of PSE used at the organizational and intermediate maintenance levels not fitting Category I or II priorities.

5.5.12.2.3.1 Priority 1 criteria. An item supporting the maintenance of secondary mission-essential subsystems and their associated WRAs/SRAs.

5.5.12.2.3.2 Priority 2 criteria. All other items.

5.5.12.2.4 Category IV -- Depot items only.

5.5.12.3 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 CDRL. Execution of PAT&E is the responsibility of the DPA.

MIL-STD-2097(AS)

5.5.13 Completion of data for periodic submission to CSEL.

5.5.13.1 CSEL initial submission. The initial CSEL shall be submitted within 30 days after receipt of annotated SERDs and SE orders from the Government. The CSEL shall reflect all SE items selected as well as SE items not selected, with reasons for nonselection.

5.5.13.2 CSEL revisions. At specified intervals, revised or additional pages shall be prepared reflecting changes to items previously listed, or the addition of new items, for which the contractor has received an approved SERD. Government decisions will continue to be reflected on the CSEL. All CSEL revisions shall include change sheets to the Revision Index (identified as Sequence 3). Revision sheets for Sequences 3 through 10, as applicable, shall be submitted when more than 10 items are involved in the revision; revisions to CSEL need not be made for ADP. The revision submission that coincides with the semiannual CSEL reissue shall be incorporated as part of the reissue. CSEL revisions shall be delivered in accordance with the CDRL.

5.5.13.3 CSEL reissues. The CSEL shall be updated and reissued every 180 days for the purpose of incorporating the revisions submitted in accordance with paragraph 5.5.13.2. The reissue precludes a requirement for submission of a concurrent revision. If no revisions have been effected against the CSEL during the reissue cycle, no reissue is required and a negative report shall be submitted. All revisions shall be referenced to permit ready identification. The CSEL updates shall be delivered in accordance with the CDRL.

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

5.5.15 Acquisition review meeting.

5.5.15.1 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.

5.5.15.2 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 listed on the CSEL, as well as for items for which requirements were developed subsequent to the submission of the last CSEL revision 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

MIL-STD-2097(AS)

engineering drawings, drawings used for manufacturing or acquisition purposes will be suitable for review purposes.

5.5.15.3 CSEL for acquisition review meetings. In instances when an acquisition review meeting must be held, a CSEL reissue shall be prepared and available for the use of all attendees at the meeting. This CSEL reissue shall include all items of SE previously submitted by the contractor and approved or disapproved by the Government. The list shall be identified in the heading as the "Consolidated Support Equipment List for Acquisition Review Meeting." Copies of the list shall be provided as specified by the Government.

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

5.5.15.5 Actions resulting from acquisition review meetings. Not later than 15 days after the meeting and in accordance with the requirements specified in the CDRL, the contractor shall furnish to appropriate activities approved copies of the SERD(s) and CSEL reflecting action required as a result of the meeting. Within 45 days after receipt of the approved copies of the SERD(s)/CSEL, or as otherwise negotiated at the guidance conference or acquisition review meeting, 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.

5.5.16 Ordering SE.

5.5.16.1 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.

5.5.16.2 Follow-on orders. The contractor may be furnished with the follow-on orders for SE items, quantities, and other supporting elements as specifically authorized by the ordering activity based upon direction from the acquiring activity. Upon receipt of a follow-on order from the ordering activity, the contractor will proceed to produce or acquire and deliver the items so ordered.

5.5.16.3 Changes to orders.

5.5.16.3.1 Additions. Unless otherwise negotiated, the Government may at any time, but not later than the scheduled delivery of the last end article of the contract, order additional SE or items of logistic support therefor. Delivery of additional items or quantities of SE or items of logistics support therefore, included in the order or revision thereto, shall be made in accordance with a schedule agreed on by the Government and the contractor.

MIL-STD-2097(AS)

5.5.16.3.2 Deletions. The OA may at any time, in writing, delete items of SE or items of logistics support therefore, on order. Charges with respect to any deletions will be processed and settled as provided for in the cancellation and termination clause of the contract.

5.5.16.4 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.

5.5.17 Delivery of SE/hardware and data.

5.5.17.1 Delivery schedule. Delivery schedules for the SE hardware and data shall be proposed to the ACO within 60 days after receipt of an order from the Government. Within 15 days after receipt, 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. This allocation sheet will be provided to the contractor as a part of the approved SERD. 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 more than 90 days 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 5.6.3. The early delivery of these items of SE will normally be limited to ship- or shorebase-installed items.

5.5.17.2 Point of delivery. The ACO shall notify the contractor, in writing, of the destination of SE to be furnished hereunder, at least 120 days in advance of the scheduled delivery, or on a date mutually agreed on by the contractor and the ACO. When it is believed to be in the best interest of the Government, the contractor shall recommend a schedule to the ACO for shipment of SE on order with the contractor but manufactured in plants other than the contractor's plant or plants. When approved and directed by the ACO, the contractor shall instruct the manufacturer to make direct shipment to the designated destination.

5.5.17.3 Delivery limitations. SE shall not be delivered unless the shipping papers, including the packing sheets, SEI, 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.

5.5.17.3.1 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

MIL-STD-2097(AS)

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.

5.5.18 Funding reports. Funding 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.

5.5.18.1 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 part number or NSN, and nomenclature.

5.5.18.2 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.

5.6 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.

5.6.1 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.

5.6.2 Logistics support requirements. Logistics support requirements shall include but not be limited to:

- a. Establishing an ILS management system.
- b. Developing integrated logistics support plans (ILSPs).
- c. Conducting LSA in accordance with MIL-STD-1388-1/2 and providing an SE maintenance plan based upon a reliability and maintainability analysis; failure mode, effects, and criticality analysis (FMECA); preventive, corrective, and servicing maintenance requirements analysis; calibration requirements analysis; task, skills, and time line analyses; and level of repair analysis (LORA) as required.

MIL-STD-2097(AS)

- 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.

5.6.2.1 ILS organization and management. Immediately upon receipt of a funding authorization, an ILS management system shall be established 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 ILSP. As a minimum, the SE ILS management system shall include provisions as described in the following subparagraphs.

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

5.6.2.1.2 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.

5.6.2.1.3 ILSMT meeting agenda. 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 method of problem documentation and resolution.

5.6.2.1.4 ILSMT minutes. 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.

5.6.2.1.5 ILSMT action chits. 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.

MIL-STD-2097(AS)

5.6.2.1.6 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.

5.6.2.2 Integrated Logistics Support Plan (ILSP). The SE section of the end article ILSP 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.

5.6.2.3 SE Logistics Support Analysis (LSA). The contractor shall develop an LSA program for SE in accordance with MIL-STD-1388 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 shall be tailored to fit the cost and complexity of each SE item through the use of the following coded entries on the SERD:

- a. LSA-5. Conduct an R&M analysis on approved LSA candidates. Conduct a failure mode and effects analysis (FMEA) by performing tasks 101 and 103 of MIL-STD-1629. Based on these results, develop preventive maintenance requirements (including servicing and calibration) by performing reliability-centered maintenance analysis. Based on the results of R&M analysis and FMEA, 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.
- b. LSA-4. Conduct an LSA and provide an analytically based MP for the SE item as specified for LSA-5, 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. LSA-3. Conduct an LSA and prepare an analytically based MP as specified for LSA-4, except that requirements for Servicing Requirements Analyses do not apply.
- d. LSA-2. Conduct an LSA and prepare an analytically based MP as specified for LSA-5, except that requirements for Calibration Requirements Analyses do not apply.
- e. LSA-1. Conduct an LSA and prepare an analytically based MP as specified for LSA-5, except that requirements for Computer-Based Analysis and Conduct of Level of Repair Analyses do not apply.
- f. LSA. Conduct an LSA and prepare an analytically based MP as specified for LSA-5, except as modified by specific requirements shown in the SERD remarks.
- g. MP. Develop an analytically based MP.
- h. REM. The SERD will provide details of the scope and depth of the analyses to be conducted.

MIL-STD-2097(AS)

- i. NMP. Develop a narrative MP (Part 1 only).
- j. NO. The LSA and MP are not required.

5.6.2.3.1 LSAR data. These data identify logistics support resource requirements in a correlated and integrated fashion and provide the basis for support system development activities and subsequent procurement actions and decisions. LSAR data shall be provided in accordance with MIL-STD-1388-2, and the CDRL. To preclude data duplication, the CDRL will reflect a preference for LSAR output data over other DID-generated data to the extent practical.

5.6.2.3.2 Reliability and maintainability program. This report shall be delivered in accordance with MIL-STD-1304 and the CDRL to explain the contractor's way to meet the reliability and maintainability requirements for the end item. The reliability and maintainability program shall be performed in accordance with MIL-STD-470, MIL-STD-785, and the CDRL.

5.6.2.3.3 Level of Repair Analysis (LORA). The LORA is a justification of the recommendation/decision to repair or discard a failed item of hardware for each anticipated maintenance action on that item. Analysis shall be performed in accordance with MIL-STD-1390. Requirements for the LOR Program Plan, LOR Status Report, and LOR Analysis Report, etc., will be specified in the CDRL.

5.6.2.3.4 Level of Repair (LOR) summary report. This summary is to be applied to all new procurements for evaluating maintenance alternatives. It is a key input to maintenance engineering analysis or the LSA. The CDRL will stipulate this report when required.

5.6.2.3.5 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.

5.6.2.3.6 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.

5.6.2.3.7 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. The CMRS shall be provided in accordance with the CDRL.

5.6.2.3.8 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.

5.6.2.4 SE MP development. A tailored MP, based upon maintenance planning and analysis data developed as part of the LSA process, shall be developed for

MIL-STD-2097(AS)

SE end items. Maintenance planning and analysis data are required by the Government to validate all MP elements and to review the audit trail from initial design activity to the development of detailed maintenance requirements and technical factors. The MP is a baseline for determining logistics support requirements for aeronautical items. It identifies source, maintenance, and recoverability (SM&R) codes, technical factors, maintenance levels, and SE requirements associated with maintenance of the aeronautical item. The MP is developed in accordance with MIL-STD-1388 and the CDRL.

5.6.2.5 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.

5.6.2.6 Work Unit Code (WUC). The CDRL and MIL-STD-780 will specify the requirement to develop a 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).

5.6.2.6.1 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.

5.6.2.7 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.

5.6.2.7.1 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.

5.6.2.7.2 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.

5.6.2.7.3 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.

5.6.2.7.4 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.

MIL-STD-2097(AS)

5.6.2.7.5 Interim Support Items List (ISIL). This list shall be provided in accordance with the CDRL to identify support items required between Initial Operational Capability (IOC) and the time when provisioning for operational support has been accomplished and Material Support Date (MSD) has been achieved.

5.6.2.7.6 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.

5.6.2.7.7 Provisioning Technical Documentation (PTD). When required by the Provisioning Requirements Statement (PRS) DD Form 1949-2, which includes the Provisioning Technical Documentation Data Selection Sheet (PTDDSS) 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.

5.6.2.7.8 Tools and test equipment list. This list shall be provided by the contractor in accordance with the CDRL to identify support items required to inspect, test, calibrate, service, repair, or overhaul a PSE end item.

5.6.2.7.9 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.

5.6.2.7.10 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.

5.6.2.7.11 Provisioning Parts List (PPL). This list shall be provided in accordance with the CDRL and the PRS, and consistent with the approved maintenance plan. The PPL shall contain all support items that can be disassembled, reassembled, or replaced and that, when combined, constitute the end item. This list shall contain all tools, test equipment, repair kits, and repair parts sets required to maintain the end item, unless specifically excluded by the PRS. MIL-STD-789 shall be applied during the development of the PPL.

5.6.2.7.12 Short Form Provisioning Parts List (SFPPL). This list shall contain only support items recommended by the contractor to maintain the end item. The SFPPL shall be submitted in accordance with the CDRL.

5.6.2.7.13 Manufacturer or commercial manual. This manual supplements the Short Form Provisioning Parts List (SFPPL) 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.

MIL-STD-2097(AS)

5.6.2.7.14 Search of DLSC screen. When required by the PRS, provisioning screening shall be conducted by the contractor through the DLSC. Provisioning screening data shall be submitted to identify existing National Stock Numbers (NSNs) for the provisioning items. Provisioning screening shall be conducted in accordance with DOD 4100.38-M.

5.6.2.7.15 Long Lead Time Items List (LLTIL). This list shall be provided in accordance with the CDRL and the PRS. The LLTIL contains items that, due to their complexity of design, complicated manufacturing process, or limited production capacity, may cause production or procurement cycles that would preclude timely and adequate delivery if not ordered before normal provisioning.

5.6.2.7.16 Repairable Items List (RIL). This list contains all recoverable support items used in or associated with the end item. The RIL shall be prepared in accordance with the CDRL.

5.6.2.7.17 Design Change Notice (DCN). DCNs shall be prepared and delivered in accordance with the CDRL to identify needed changes to PTD that add to, delete, supersede, or modify items previously listed for incorporation into the end item.

5.6.2.7.18 Post-Conference List (PCL). This list consists of items selected to maintain and support the end item, and shall be provided in accordance with the CDRL.

5.6.2.7.19 Post-Conference Provisioning List (PCPL). The PCPL is provided on magnetic tape and consists of all line items reviewed with every provisioning data element generated during the provisioning process. The PCPL shall be provided in accordance with the CDRL and the PRS.

5.6.2.7.20 List of Standard/Modified Hand Tools (LSMHT). This list, provided in accordance with the CDRL, facilitates screening and proper logistics action for standard tools.

5.6.2.8 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.

5.6.2.9 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.

5.6.2.10 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/shorebased facilities shall be provided in accordance with the CDRL.

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

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MIL-STD-2097(AS)

5.6.2.11.1 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.

5.6.2.11.2 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.

5.6.2.12 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-81919, MIL-M-81927, MIL-M-81929, MIL-M-85337, the TMCR, the SERD, and the CDRL.

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

5.6.2.12.2 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.

5.6.2.12.3 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.

5.6.2.12.4 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.

5.6.2.13 Component Pilot Rework/Repair (CPR/R) package. If the SE item meets the repair and MP criteria cited in paragraph 5.6.2.14, 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.

5.6.2.14 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.

5.6.2.15 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.

5.6.2.15.1 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.

MIL-STD-2097(AS)

5.6.2.15.2 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.

5.6.2.15.3 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.

5.6.2.15.4 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.

5.6.2.15.5 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.

5.6.2.15.6 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.

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

5.6.2.15.8 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.

5.6.2.15.9 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.

5.6.2.16 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.

5.6.2.17 Packaging, Handling, Storage, and Transportation (PHS&T). PHS&T requirements applicable to SE shall be provided in accordance with MIL-STD-648, MIL-STD-794, MIL-STD-1367, and the CDRL.

MIL-STD-2097(AS)

5.6.3 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 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.

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(Project No. MISC-ND41)

MIL-STD-2097(AS)

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 invoked with this standard, and presents an overview of 16 subjects that will be considered in developing or responding to Statements of Work (SOWs) for end items of SE.

10.2 Purpose. The detailed requirements of paragraph 5 of this military standard prescribe a complete process to acquire SE, SE ILS, and related technical data for air systems. Since these 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, this appendix assists the Government and industry user engaged in developing or responding to SOW/ILSDS, CDRLs, and SE recommendations.

10.3 Application. This appendix is presented as a guide only. It identifies the DIDs that are frequently cited on contracts and that should be reviewed in conjunction with the specific acquisition to ensure that only essential data are requested/provided. These DIDs should also be compared with counterpart LSAR output summaries as described in MIL-STD-1388-2 to preclude data duplication. Use of the information in paragraph 40.4 will facilitate the tailoring of broad SOW requirements contained in the end article contract to the needs of the SE end items that are being recommended. Certain paragraphs cited involve DIDs that will be identified using the DID matrix in Appendix C.

20. REFERENCED DOCUMENTS

20.1 Issues of documents. The documents cited in paragraph 2 of this basic standard of the issue in effect on the date of Invitation For Bids or Request For Proposals/Quotations are an integrated part of this appendix.

30. DEFINITIONS

30.1 Definitions. The definitions presented in paragraph 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 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.

MIL-STD-2097(AS)

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 untailored, comprehensive, subjective listings of DIDs appropriate for use with this standard when applied to multiservice acquisition and ILS projects are indicated in the following paragraphs.

40.3.1 Acquisition-related DIDs. To ensure correct contractual application of this standard and SE end item management, CDRLs will be prepared to obtain data required for general acquisition management, SE standardization, design engineering, ECP and configuration control, LSA, reliability, quality assurance, safety and human factors, test and evaluation, and test program sets. DIDs supporting these tasks include, but will not necessarily be limited to, those cited below.

40.3.1.1 General acquisition management-related DIDs.

DI-F-6006	Cost Data Summary Report (DD Form 1921)
DI-F-6007	Functional Cost Hour Report (DD Form 1921-1)
DI-A-6102	Support Equipment Plan
DI-F-6126	Report of Technical Manual Costs
DI-P-6165	Report, Support Equipment Delivery Schedule/Delinquency
DI-V-6186	Priced Support Equipment List (PSEL)
DI-ILSS-80039	Support Equipment Recommendation Data (SERD)
DI-ILSS-80040	Support Equipment Candidate List
DI-L-7145	Logistic Support Analysis Record (LSAR) Data
UDI-A-20412	Plan, Milestone
UDI-L-21448	List, Consolidated Ground Support Equipment for Foreign Military Sales (FMSCGSEL)

40.3.1.2 SE standardization-related DIDs.

DI-E-2182	Microcircuit Material Item and Linkage Record
DI-E-6120	Support Equipment Illustrations (SEI)
DI-E-7026	Part Control Program Plan
DI-E-7027	Program Parts Selection List
DI-E-7028	Nonstandard Part Approval Requests/Proposed Additions to an Approved Program Parts Selection List
DI-E-7029	Military Detail Specifications and Specification Sheets
DI-E-7030	Test Data for Nonstandard Parts
UDI-T-21359	List, Interconnection Device Pin/Wire
UDI-E-21582	Request, Assignment of Nomenclature
UDI-E-21583	Request, Confirmation of Nomenclature
UDI-E-21584	Request, Approval of Identification Plate Drawings
UDI-E-21585	Request, Serial Number Assignment
UDI-E-21586	Request, Assignment of Type Equipment Codes
UDI-E-21587	Request, Confirmation of Type Equipment Codes

MIL-STD-2097(AS)

40.3.1.3 Design engineering-related DIDs.

DI-E-1104	Specifications
DI-E-1111	Microfilm of Engineering Documents
DI-E-1130	English Language Test Design Document (ELTD)
DI-E-1134	Airworthiness Qualification Data (Military Airworthiness Standard)
DI-T-2181	Test Requirements Document
DI-S-4057	Scientific and Technical Reports
DI-E-5325	Engineering Drawings (Commercial)
DI-E-7031	Drawings, Engineering and Associated Lists
DI-E-7042	Design Approval Request For Standard Electronic Modules Program
DI-E-7043	Specifications Standard Electronic Modules Program (SEMP)
DI-E-7044	Request, Exception, Standard Electronic Modules Program (SEMP)
DI-E-7045	Report, Failure Analysis for the Standard Electronic Modules Program (SEMP)
DI-R-7061	Electromagnetic Interference Control Plan
DI-R-7062	Electromagnetic Interference Test Report
DI-R-7063	Electromagnetic Interference Test Plan
UDI-R-21015	Report, Logistic Engineering Progress
UDI-H-21018	Plan, CETS (Contractor Engineering Technical Services) Requirements
UDI-E-21337	Data, Microelectronic Devices and Assemblies Approval Requests
UDI-E-21342	Specifications, Equipment
UDI-E-23127	Report, Contractor Engineering and Technical Services (CETS)

40.3.1.4 ECP and configuration control-related DIDs.

DI-E-2035	Configuration Management Plan
DI-E-2037	Engineering Change Proposals (ECPs) and Requests for Deviations and Waivers (Long Form)
DI-E-2038	Engineering Change Proposals (ECPs) and Requests for Deviations and Waivers (Short Form)
DI-E-2039	Reports, Configuration Status Accounting
DI-T-3717	Computer Program Configuration Item (CPCI) Development Test and Evaluation Test Report
UDI-E-21064	Plan, Integrated Logistic Support (ILSP) Engineering Change Support Section

40.3.1.5 LSA-related DIDs.

DI-L-2100	List, Engineering Document Requirements (EDRL)
DI-L-7145	Logistics Support Analysis Record (LSAR) Data
DI-L-7017	Logistics Support Analysis (LSA) Plan
UDI-R-21014	Record, Logistic Support Analysis

40.3.1.6 Reliability-related DIDs.

DI-R-2114	Report, Reliability Allocation
DI-R-7033	Plan, Reliability Test
DI-R-7034	Reports, Reliability Test and Demonstration
DI-R-7035	Procedures, Reliability Tests
DI-R-7036	Report, Thermal Survey
DI-R-7037	Report, Vibration Survey

MIL-STD-2097(AS)

DI-R-7038	Plan, Corrective Action
DI-R-7039	Report, Failed Item Analysis
DI-R-7040	Report, Burn-In Test
DI-R-7041	Report, Failure Summary and Analysis
DI-R-7079	Reliability Program Plan
DI-R-7080	Reliability Status Report
DI-R-7081	Reliability Mathematical Model(s)
DI-R-7082	Reliability Predictions Report
DI-R-7083	Sneak Circuit Analysis Report
DI-R-7084	Electronics Parts/Circuits Tolerance Analysis Report
DI-R-7085	Failure Mode, Effects and Criticality Analysis Report
DI-R-7086	Failure Mode, Effects and Criticality Analysis Plan
DI-R-7094	Reliability Block Diagrams and Mathematical Models Report
DI-R-7095	Reliability Prediction and Documentation of Supporting Data
UDI-R-21138	Report, Environment
UDI-R-21423	Report, Reliability Stress Analysis

40.3.1.7 Quality assurance-related DIDs.

DI-R-1701	Product Assurance Test, Demonstration and Evaluation Plan
DI-R-1724	Quality Inspection Test, Demonstration and Evaluation Report
UDI-R-21373	Reports, Quality Assurance Program Status
UDI-R-21374	Plan, Quality Assurance Program
UDI-R-21375	Plan, Inspection and Test

40.3.1.8 Safety and human factors-related DIDs.

DI-H-7047	System Safety Program Plan (SSPP)
DI-H-7048	System Safety Hazard Analysis Report
DI-H-7049	Safety Assessment Report
DI-H-7050	System Safety Engineering Report
DI-H-7051	Human Engineering Program Plan
DI-H-7053	Human Engineering Test Plan
DI-H-7055	Critical Task Analysis Report
DI-H-7058	Human Engineering Test Report

40.3.1.9 Test and evaluation-related DIDs.

DI-T-2072	Reports, Test
DI-T-3714	Acceptance Test Procedures
DI-T-3721	Acceptance Test Reports
DI-T-3734	Test Requirements Document
UDI-T-5147	Acceptance Test Plan
UDI-S-21060	Test, Evaluation or Demonstration Test Article Configuration
UDI-T-21347	Procedures, Test
UDI-T-21349	Report, First Article (Preproduction) Test
UDI-T-21350	Report, Design Approval Test
UDI-T-21362	Procedure, General Acceptance Test
UDI-T-21363	Procedure, Acceptance Test
UDI-T-21364	Report, Acceptance Test
UDI-T-21365	Specification, Production Acceptance Test
UDI-T-21554	Test Strategy Report
DI-T-23731	Notification of Tests

MIL-STD-2097(AS)

40.3.1.10 TPS-related DIDs.

DI-T-2072	Reports, Test
DI-T-3714	Acceptance Test Procedures
DI-T-3721	Acceptance Test Reports
DI-E-7031	Drawings, Engineering and Associated Lists
DI-R-7033	Plan, Reliability Test
DI-R-7035	Procedures, Reliability Tests
DI-R-7039	Report, Failed Item Analysis
DI-R-7079	Reliability Program Plan
DI-R-7095	Reliability Prediction and Documentation of Supporting Data
DI-R-7103	Maintainability Program Plan
DI-R-7108	Maintainability Predictions Report
DI-R-7112	Maintainability Demonstration Test Plan
UDI-T-21359	List, Interconnection Device Pin/Wire
UDI-T-21361	Aids, Computer Program
DI-T-21550	Cross Reference Table
DI-T-21551	Diagnostic Flow Chart
DI-T-21552	Master Test Program Set Index
DI-T-21553	Source and Object Program List
DI-T-21554	Test Strategy Report
UDI-E-22154	Specifications
DI-T-23731	Notification of Tests
UDI-E-30111	Computer Program Flowcharts

40.3.2 ILS-related DIDs.

To ensure correct contractual application of the standard, CDRLs and ILSDS will be prepared to obtain data required for general ILS purposes; maintainability; maintenance planning; computer resources support; facilities; PHS&T; supply support; support and test equipment for SE; supportability; technical data, and training and training devices. A full range of DIDs for consideration in supporting these tasks includes, but will not necessarily be limited to, those cited below.

40.3.2.1 General ILS-related DIDs.

DI-A-6102	Support Equipment Plan
DI-L-6138	Integrated Support Plan (ISP)
DI-A-7088	Conference Agenda
DI-A-7089	Conference Minutes
UDI-L-21012	Plan, Integrated Logistic Support (ILSP)

40.3.2.2 Maintainability-related DIDs.

DI-R-2129	Plan Maintainability Demonstration
DI-R-7103	Maintainability Program Plan
DI-R-7104	Maintainability Status Report
DI-R-7106	Maintainability Modelling Report
DI-R-7107	Maintainability Allocations Report
DI-R-7108	Maintainability Predictions Report
DI-R-7109	Maintainability Analysis Report

MIL-STD-2097(AS)

DI-R-7110 Maintainability Design Criteria Plan
 DI-R-7112 Maintainability Demonstration Test Plan
 DI-R-7113 Report, Maintainability Demonstration

40.3.2.3 Maintenance planning-related DIDs.

DI-M-2070 Listing, Work Unit Code Item
 DI-L-2082 Report, LOR (Level of Repair) Summary
 DI-L-2083 Reports, LOR (Level of Repair) Status
 DI-L-2084 Plan, LOR (Level of Repair) Program
 DI-L-2085 Report, LOR (Level of Repair) Analysis
 DI-L-2155 Report, LOR (Level of Repair) Input Data
 DI-L-2202 Cards, Maintenance Requirement (MRC) and Pages, Maintenance Index (MIP)
 DI-S-6177 Calibration Measurement Requirements Summary (CMRS)
 UDI-E-21065 Plan, Integrated Logistics Support (ILSP) Depot and Intermediate Rework Support Section
 DI-L-21575 Support Equipment Depot Level Rework Standard
 UDI-T-22703 Procedures, Instrument Calibration (ICP)

40.3.2.4 Computer resources support-related DIDs.

DI-S-2139 Program Description Document
 DI-S-2141 Program Package Document
 DI-T-3703 Computer Program Configuration Item (CPCI) Test Plans/Procedures
 DI-H-5545 Computer Software Product
 UDI-S-21080 Documentation, CDC Program
 UDI-S-21082 Plan, Integrated Logistic Support (ILSP) Contractor Data Collection Section
 UDI-T-21360 Deck, Source
 UDI-T-21361 Aids, Computer Program
 UDI-M-21446 Manual, Programmer's Reference
 UDI-T-21550 Cross Reference Table
 UDI-T-21551 Diagnostic Flow Chart
 UDI-T-21553 Source and Object Program Listing
 DI-E-30111 Computer Program Flow Charts

40.3.2.5 Facilities-related DIDs.

UDI-P-21006 Data, Installation, Ground Support Equipment (GSEID)
 UDI-P-21037 Document, Facilities Requirements for Typical Shorebased and Shipboard Sites
 UDI-P-21038 Report, Site Evaluation
 UDI-P-21040 Data Package, Support Site Activation
 UDI-S-21070 Plan, Integrated Logistic Support, (ILSP) Site/Unit Activation Section
 UDI-P-21083 Plan, Integrated Logistic Support, (ILSP) Facilities Section

MIL-STD-2097(AS)

40.3.2.6 PHS&T-related DIDs.

UDI-L-21050 List, Items Requiring Special Handling Between/Within Maintenance and Supply Department

UDI-L-21051 List, General Packaging, Handling, Storage and Transportability Data

UDI-L-21054 Plan, Integrated Logistic Support (ILSP) PHST Packaging, Handling, Storage and Transportation Section

40.3.2.7 Supply support-related DIDs.

DI-V-2172 Post Conference Provisioning List

DI-L-2179 Master Index of Repairables/Repairable Projection

DI-V-5169 EAM Provisioning Card Deck

DI-V-6180 Recommended Repair Parts List (RRPL) (Preoperational)

DI-V-7000 Supplementary Provisioning Technical Documentation (SPTD)

DI-V-7001 Manufacturer or Commercial Manual (Provisioning)

DI-V-7002 Provisioning Parts List (PPL)

DI-V-7003 Short Form Provisioning Parts List (SFPPL)

DI-V-7004 Long Lead Time Items List (LLTIL)

DI-V-7005 Repairable Items List (RIL)

DI-V-7006 Interim Support Items List (ISIL)

DI-V-7007 Tools and Test Equipment List (TTEL)

DI-V-7009 Design Change Notices (DCN)

DI-V-7011 Post Conference List (PCL)

DI-V-7016 Provisioning and Other Preprocurement Screening Data

DI-P-7128 Contractor Technical Information Coding of Replenishment Parts

DI-P-7129 Technical Data Identification Check List

DI-L-7145 Logistic Support Analysis Record (LSAR) Data

DI-V-7193 Provisioning Parts List Index

UDI-V-21016 List, Throw-Away Items

UDI-V-21025 Plan, Integrated Logistics Support (ILSP), Spares and Repair Parts Section

UDI-V-21041 Plan, Integrated Logistic Support (ILSP) Preoperational (Interim) Support Section

UDI-V-21042 List, Support Material (SML) Preoperational (Interim)

UDI-V-21043 Report, Consumption/Usage

UDI-V-21044 Report, Transition Status

UDI-V-21045 Report, Residual Asset, Preoperational (Interim)

UDI-A-22054 Request, Disposition of Government-Furnished Equipment

40.3.2.8 Support and test equipment for SE-related DIDs.

DI-E-6120 Support Equipment Illustrations (SEI)

DI-ILSS-80039 Support Equipment Recommendation Data (SERD)

DI-ILSS-80040 Support Equipment Candidate List

DI-V-6184 Proposed Revision to the Support Equipment Exhibit (PRSEE)

DI-V-6186 Priced Support Equipment List (PSEL)

DI-L-7145 Logistic Support Analysis Record (LSAR) Data

UDI-A-21190 Plan, Integrated Logistic Support (ILSP) Ground Support Equipment Section

DI-L-21575 Support Equipment Depot Level Rework Standard

MIL-STD-2097(AS)

40.3.2.9 Supportability-related DIDs.

DI-L-2082	Report, LOR (Level of Repair) Summary
DI-L-2083	Reports, LOR (Level of Repair) Status
DI-L-2084	Plan, LOR (Level of Repair) Program
DI-L-2085	Report, LOR (Level of Repair) Analysis

40.3.2.10 Technical manual-related DIDs.

DI-M-2052	Technical Manual Status Report
DI-M-2190	Work Package (WP) Concept Technical Manual
DI-M-2194	Manual, Technical, Quality Assurance Program Plan
DI-M-2195	Manual, Technical, Validation Plan
DI-M-2196	Manual, Technical, Validation Certification
DI-M-2197	Manual, Technical, Evaluation Record
DI-M-2198	Manual, Technical, Verification Plan
DI-M-2199	Manual, Technical, Verification Planning Data Cards
DI-M-2200	Manual, Technical, Verification Sequence Control Chart
DI-M-2201	Manual, Technical, Verification Incorporation Certification
DI-F-6126	Report of Technical Manual Costs
DI-M-6154	Technical Manual Plan (TMP)
DI-M-6155	Technical Manual Status and Schedules
DI-M-6158	Technical Manual Data Research and Analysis Source Data
UDI-L-21020	Plan, Integrated Logistic Support (ILSP) Technical Manual Section
DI-E-21335	Directive, Technical (Aeronautical)

40.3.2.11 Training and training devices-related DIDs.

DI-S-3608	Time Line Sheet
DI-H-7066	Training and Training Equipment Plan
DI-H-7067	Training Courses Proposal
DI-H-7068	Task and Skill Analysis Report
DI-H-7069	Training Course/Curriculum Outline
DI-H-7070	Instructor/Lesson Guides-Training Courses
DI-H-7071	Student's Training Course Guide
DI-H-7072	Audiovisual Aids, Master Reproducibles and Review Copies for Training Equipment and Training Courses
DI-H-7074	Tests for Measurement of Student Achievement
DI-H-7093	Factory Training Curriculum Materials

40.3.2.12 LSAR report DIDs.

DI-L-7146	LSA-001, Direct Annual Maintenance Man-Hours Report
DI-L-7147	LSA-002, Personnel and Skill Summary Report
DI-L-7148	LSA-003, Maintenance Summary Report
DI-L-7149	LSA-005, Support Item Utilization Summary Report
DI-L-7150	LSA-006, Critical Maintenance Task Summary Report
DI-L-7151	LSA-007, Support Equipment Requirements
DI-L-7152	LSA-008, Support Items Validation Summary Report
DI-L-7153	LSA-009, Support Items List Report

MIL-STD-2097(AS)

DI-L-7154	LSA-010, Parts Standardization Summary Report
DI-L-7155	LSA-011, Requirements for Special Training Device Report
DI-L-7156	LSA-012, Requirements for Facility Report
DI-L-7157	LSA-013, Support Equipment Grouping Number Utilization Summary Report
DI-L-7158	LSA-014, Training Task List Report
DI-L-7159	LSA-015, Sequential Task Description Report
DI-L-7160	LSA-018, Visibility and Management of Operating and Support Cost (VAMOSC) Summary
DI-L-7161	LSA-019, Maintenance Task Analysis Validation Summary Report
DI-L-7162	LSA-021, Task Referencing List Report
DI-L-7163	LSA-022, Referenced Task List Report
DI-L-7164	LSA-023, Maintenance Plan Summary Report
DI-L-7165	LSA-024, Maintenance Plan Report
DI-L-7166	LSA-025, Packaging Requirements Data Report
DI-L-7167	LSA-026, Packaging Developmental Data Report
DI-L-7168	LSA-027, Failure/Maintenance Rate Summary Report
DI-L-7169	LSA-028, Reference Number/Additional Reference Number Cross-Reference List Report
DI-L-7170	LSA-040, Components of End Item List Draft Report
DI-L-7171	LSA-041, Basic Issue Items List Draft Report
DI-L-7172	LSA-042, Additional Authorization List Draft Report
DI-L-7173	LSA-043, Expendable/Durable Supplies and Materials List Draft Report
DI-L-7174	LSA-050, Reliability Centered Maintenance Summary Report
DI-L-7175	LSA-051, Reliability Summary-Redesign Report
DI-L-7176	LSA-052, Criticality Analysis Summary Report
DI-L-7177	LSA-053, Maintainability Summary Level-of-Repair Report
DI-L-7178	LSA-054, Failure Mode Analysis Summary Report
DI-L-7179	LSA-055, Failure Mode Detection Summary Report
DI-L-7180	LSA-060, LSA Control Number (LCN) Master File
DI-L-7181	LSA-061, Parts Master File
DI-L-7182	LSA-080, Bill of Materials Report
DI-L-7183	LSA-106, Reference Number Discrepancy List Report
DI-L-7184	LSA-107, Task Identification Codes Cross-Reference List Report
DI-L-7185	LSA-108, Critical Data Changes Report
DI-L-7186	LSA-150, Provisioning Error List Report
DI-L-7187	LSA-152, PLISN Assignment/Reassignment Report
DI-L-7188	Repair Parts and Special Tools List (RPSTL) LSA-029, -030, and -031
DI-L-7189	Maintenance Allocation Chart
DI-L-7190	Preliminary Maintenance Allocation Chart (PMAC)
DI-L-7191	LSA-100 through -105, Chronology Information Report

40.4 SOW and other uses. This military standard contains informational material on 16 subjects that will require understanding to successfully complete SE end item requirements. These subjects include, in alphabetical order:

40.4.1 ACO/ordering activity. The ACO's role, responsibility, and tasks are contained in paragraphs 5.5.4.3, 5.5.16.1, 5.5.16.2, 5.5.16.3.2, 5.5.17.1, 5.5.17.2, 5.6.1, and 5.6.2.3.

40.4.2 Acquisition. Methods, review meetings, and SE ordering phases are contained in paragraphs 5.5.15 through 5.5.15.5, and 5.5.16 through 5.5.16.3.2.

40.4.3 Conferences/coordination. Meetings to ensure that contractual requirements are fully understood and progressing well are addressed in paragraphs 5.1 through 5.1.3, 5.5.15 through 5.5.15.5, and 5.6.2.1.2 through 5.6.2.1.6.

40.4.4 Delivery. Requirements pertaining to the delivery of SE and SE ILS are contained in paragraphs 5.5.17 through 5.5.17.3.1 and 5.6.3.

40.4.5 SE design, design change, and configuration control. Information on Government requirements related to these disciplines is contained in paragraphs 5.5.1 through 5.5.1.1.3, 5.5.2, 5.5.3, and 5.5.4 through 5.5.4.4.

40.4.6 Engineering and engineering data. Design and acquisition actions, preparation of engineering data, and design and fabrication subjects are covered in paragraphs 5.5.1 through 5.5.2, and 5.5.4 through 5.5.10.

40.4.7 Exclusions from the SERD process. These exclusions are listed in paragraph 5.3.4.2.

40.4.8 Funding. Funding requirements, authorizations, and related reports are contained in paragraphs 5.2, 5.5.16.4, 5.5.18 through 5.5.18.2 and 5.6.2.12.4.

40.4.9 Integrated Logistic Support (ILS). SERD involvements, planning, actions, and delivery requirements for ILS are addressed in paragraphs 5.3.4.4, 5.6, 5.6.1, 5.6.2, and 5.6.3.

40.4.10 LSA/SE identification. SECLs, SERDs, SE selection criteria, Government inventory information and data bases to enhance SE standardization and non-proliferation are discussed in paragraphs 5.3 through 5.3.5 and 5.6.2.3 through 5.6.2.4.

40.4.11 Supply support. Supply support data are contained in paragraphs 5.6.2.7 through 5.6.2.7.20.

40.4.12 Support Equipment Recommendation Data (SERD). General information, submission requirements, and exclusions from the SERD process are contained in paragraphs 5.3.4 through 5.3.4.6.

40.4.13 Statement of Work (SOW). Taskings considered in developing an SOW are included in paragraphs 1.2, 5.1, 5.1.2, 5.1.3, 5.2, 5.3.1, 5.3.2, 5.3.2.1, 5.3.3, 5.3.4.1, 5.3.4.3, 5.3.4.4, 5.3.4.5, 5.3.4.6, 5.3.5, 5.5.1, 5.5.1.1.1, 5.5.1.1.2, through 5.5.1.1.2.2, 5.5.1.1.3, 5.5.4.1, 5.5.4.2, 5.5.4.4, 5.5.6, 5.5.13 through 5.5.15.2, 5.5.15.3, 5.5.15.5, 5.5.16.2, 5.5.16.4, 5.5.17.1 through 5.5.17.3.1, 5.5.18 through 5.5.18.2, 5.6.1, 5.6.2.1, 5.6.2.3, 5.6.2.5, 5.6.2.7, 5.6.2.12, and 5.6.3.

40.4.14 Technical manuals (TMs). Requirements for technical manuals are contained in paragraphs 5.6.2.12 through 5.6.2.12.4.

MIL-STD-2097(AS)

40.4.15 Test and evaluation. Government conduct of test and evaluation matters is discussed in paragraphs 5.5.12 through 5.5.12.2.4.

40.4.16 Training. Contractor support of training requirements is detailed in paragraphs 5.6.2.15 through 5.6.2.15.9.

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.

40.4.2 Acquisition. Methods, review meetings, and SE ordering phases are contained in paragraphs 5.5.15 through 5.5.15.5, and 5.5.16 through 5.5.16.3.2.

40.4.3 Conferences/coordination. Meetings to ensure that contractual requirements are fully understood and progressing well are addressed in paragraphs 5.1 through 5.1.3, 5.5.15 through 5.5.15.5, and 5.6.2.1.2 through 5.6.2.1.6.

40.4.4 Delivery. Requirements pertaining to the delivery of SE and SE ILS are contained in paragraphs 5.5.17 through 5.5.17.3.1 and 5.6.3.

40.4.5 SE design, design change, and configuration control. Information on Government requirements related to these disciplines is contained in paragraphs 5.5.1 through 5.5.1.1.3, 5.5.2, 5.5.3, and 5.5.4 through 5.5.4.4.

40.4.6 Engineering and engineering data. Design and acquisition actions, preparation of engineering data, and design and fabrication subjects are covered in paragraphs 5.5.1 through 5.5.2, and 5.5.4 through 5.5.10.

40.4.7 Exclusions from the SERD process. These exclusions are listed in paragraph 5.3.4.2.

40.4.8 Funding. Funding requirements, authorizations, and related reports are contained in paragraphs 5.2, 5.5.16.4, 5.5.18 through 5.5.18.2 and 5.6.2.12.4.

40.4.9 Integrated Logistic Support (ILS). SERD involvements, planning, actions, and delivery requirements for ILS are addressed in paragraphs 5.3.4.4, 5.6, 5.6.1, 5.6.2, and 5.6.3.

40.4.10 LSA/SE identification. SECLs, SERDs, SE selection criteria, Government inventory information and data bases to enhance SE standardization and non-proliferation are discussed in paragraphs 5.3 through 5.3.5 and 5.6.2.3 through 5.6.2.4.

40.4.11 Supply support. Supply support data are contained in paragraphs 5.6.2.7 through 5.6.2.7.20.

40.4.12 Support Equipment Recommendation Data (SERD). General information, submission requirements, and exclusions from the SERD process are contained in paragraphs 5.3.4 through 5.3.4.6.

40.4.13 Statement of Work (SOW). Taskings considered in developing an SOW are included in paragraphs 1.2, 5.1, 5.1.2, 5.1.3, 5.2, 5.3.1, 5.3.2, 5.3.2.1, 5.3.3, 5.3.4.1, 5.3.4.3, 5.3.4.4, 5.3.4.5, 5.3.4.6, 5.3.5, 5.5.1, 5.5.1.1.1, 5.5.1.1.2, through 5.5.1.1.2.2, 5.5.1.1.3, 5.5.4.1, 5.5.4.2, 5.5.4.4, 5.5.6, 5.5.13 through 5.5.15.2, 5.5.15.3, 5.5.15.5, 5.5.16.2, 5.5.16.4, 5.5.17.1 through 5.5.17.3.1, 5.5.18 through 5.5.18.2, 5.6.1, 5.6.2.1, 5.6.2.3, 5.6.2.5, 5.6.2.7, 5.6.2.12, and 5.6.3.

40.4.14 Technical manuals (TMs). Requirements for technical manuals are contained in paragraphs 5.6.2.12 through 5.6.2.12.4.

MIL-STD-2097(AS)

APPENDIX B

DATA REQUIREMENTS

10. GENERAL

10.1 Scope. The appendix identifies the data requirements sourced to this standard.

10.2 Purpose. The data requirements of this standard are used to acquire and transmit data concerning SE identification and selection and its subsequent delivery into the Government inventory.

20. REFERENCED DOCUMENTS

Not applicable.

30. DEFINITIONS

Not applicable.

40. GENERAL REQUIREMENTS

Not applicable.

50. DETAIL REQUIREMENTS

50.1 Data. When this standard is used in an acquisition that incorporates CDRL, DD Form 1423, the data requirements identified below shall be developed as specified by an approved DID, DD Form 1664, and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of FAR 7-104.9 (n) (2) are invoked and DD Form 1423 is not used, the contractor shall deliver the data specified below in accordance with the contract or purchase order requirements. Deliverable data sourced to this standard are cited in the following paragraphs.

<u>Paragraph No.</u>		<u>Applicable DID No.</u>
5.3.3	Support Equipment Candidate List	DI-ILSS-80040
5.3.4	Support Equipment Recommendation Data	DI-ILSS-80039

DIDs related to this standard will be approved and listed as such in DOD 5000.19L, Vol. II, AMDSL. Copies of DIDs required by the contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.

MIL-STD-2097(AS)

40.4.15 Test and evaluation. Government conduct of test and evaluation matters is discussed in paragraphs 5.5.12 through 5.5.12.2.4.

40.4.16 Training. Contractor support of training requirements is detailed in paragraphs 5.6.2.15 through 5.6.2.15.9.

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.

MIL-STD-2097(AS)

APPENDIX C

DATA ITEM DESCRIPTION (DID) MATRIX

10. GENERAL

10.1 Scope. This appendix identifies DIDs frequently used in SE, SE ILS, and SE technical data acquisition by specific page and paragraph locations within this standard that require consideration of these data.

20. REFERENCED DOCUMENTS

Not applicable.

30. DEFINITIONS

Not applicable.

40. GENERAL REQUIREMENTS

Not applicable.

50. DETAIL REQUIREMENTS

50.1 Data. When this standard is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirement identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of FAR 7-104.9(n)(2) are invoked and the DD Form 1423 is not used, the data specified below shall be delivered to the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this standard are cited in the following paragraphs.

50.2 The DID Matrix presented in subsequent pages of this Appendix cross-references requirements stated in Section 5 of this standard to appropriate DIDs that are often used in NAVAIR CDRLs. This matrix, therefore, should be used in conjunction with Section 5 to fully understand requirements.

50.3 DIDs related to this standard and identified in Appendix B will be approved and listed as such in DOD 5000.19L, Vol. II, AMSDL. Copies of DIDs required by the contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
18	5.3.3	DI-ILSS-80040	Support Equipment Candidate List
19	5.3.4.3	DI-ILSS-80039	Support Equipment Recommendation Data
20, 27, 34	5.3.4.6, 5.5.9, 5.6.2.1.6	UDI-R-21015	Report, Logistic Engineering Progress
21	5.5.1	DI-E-7042	Design Approval Request for Standard Electronic Modules Program
21, 36	5.5.1, 5.6.2.3.5	DI-E-7045	Report Failure Analysis for the Standard Electronic Modules Program (SEMP)
24	5.5.1.1.1	DI-E-7026	Part Control Program Plan
24	5.5.1.1.1	DI-E-7027	Program Parts Selection List
24	5.5.1.1.1	DI-E-7028	Nonstandard Part Approval Requests/Proposed Additions to an Approved Program Parts Selection List
24	5.5.1.1.2.1	DI-H-7047	System Safety Program Plan (SSPP)
24	5.5.1.1.2.1	DI-H-7049	Safety Assessment Report
24	5.5.1.1.2.1	DI-H-7050	System Safety Engineering Report
24	5.5.1.1.2.2	DI-H-7048	System Safety Hazard Analysis Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7033	Plan, Reliability Test
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7034	Reports, Reliability Test and Demonstration
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7035	Procedures, Reliability Tests

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7036	Report, Thermal Survey
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7037	Report, Vibration Survey
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7038	Plan, Corrective Action
24, 36	5.5.1.1.3, 5.6.2.3.5	DI-R-7039	Report, Failed Item Analysis
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7079	Reliability Program Plan
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7080	Reliability Status Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7081	Reliability Mathematical Model(s)
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7082	Reliability Predictions Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7094	Reliability Block Diagrams and Mathematical Models Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7103	Maintainability Program Plan
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7104	Maintainability Status Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7106	Maintainability Modeling Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7107	Maintainability Allocations Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7108	Maintainability Predictions Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7109	Maintainability Analysis Report
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7110	Maintainability Design Criteria Plan
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7112	Maintainability Demonstration Test Plan
24, 35	5.5.1.1.3, 5.6.2.3.2	DI-R-7113	Report, Maintainability Demonstration

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
25	5.5.4.1	DI-E-2037	Engineering Change Proposals (ECPs) and Requests for Deviations and Waivers (Long Form)
25	5.5.4.1	DI-E-2038	Engineering Change Proposals (ECPs) and Request for Deviations and Waivers (Short Form)
27	5.5.4.4	DI-E-2035	Configuration Management Plan
27	5.5.4.4	DI-E-2039	Reports, Configuration Status Accounting
27	5.5.6	DI-E-7031	Drawings, Engineering and Associated Lists
27	5.5.7	UDI-E-21582	Request, Assignment of Nomenclature
27	5.5.8	DI-E-1104	Specifications
27	5.5.9	UDI-A-20412	Plan, Milestone
27	5.5.10	DI-E-6120	Support Equipment Illustrations (SEI)
28	5.5.11	DI-R-1701	Product Assurance Test, Demonstration and Evaluation Plan
28	5.5.11	DI-R-1724	Quality Inspection Test, Demonstration and Evaluation Report
28	5.5.11	UDI-R-21373	Reports, Quality Assurance Program Status
28	5.5.11	UDI-R-21374	Plan, Quality Assurance Program
28	5.5.12.1	DI-T-2072	Reports, Test
28	5.5.12.1	DI-T-3714	Acceptance Test Procedures
28	5.5.12.1	DI-T-3721	Acceptance Test Reports

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
28	5.5.12.1	DI-T-2181	Test Requirements Document
28	5.5.12.1	UDI-T-5147	Acceptance Test Plan
28	5.5.12.1	DI-T-5315	First Article Qualification Test Plan
28	5.5.12.1	UDI-S-21060	Test, Evaluation or Demonstration Test Article Configuration
28	5.5.12.1	UDI-T-21349	Report, First Article (Preproduction) Test
29, 30	5.5.13.1, 5.5.13.2, 5.5.13.3	DI-L-7145	Logistic Support Analysis Record (LSAR) Data
31	5.5.16.4	DI-V-6184	Proposed Revision to the Support Equipment Exhibit (PRSEE)
31	5.5.16.4	DI-V-6186	Priced Support Equipment List (PSEL)
32, 41	5.5.17.1, 5.6.3	DI-P-6165	Report, Support Equipment Delivery Schedule/Delinquency
33	5.5.18.1	DI-F-6006	Cost Data Summary Report (DD Form 1921)
33	5.5.18.2	DI-F-6007	Functional Cost Hour Report (DD Form 1921-1)
34	5.6.2.1.2, 5.6.2.1.3	DI-A-7088	Conference Agenda
34	5.6.2.1.2, 5.6.2.1.3, 5.6.2.1.4	DI-A-7089	Conference Minutes
34	5.6.2.2	UDI-L-21012	Plans, Integrated Logistic Support (ILSP)
35	5.6.2.3	DI-L-7017	Logistic Support Analysis (LSA) Plan
35	5.6.2.3.1	DI-L-7145	Logistic Support Analysis Record (LSAR) Data
35	5.6.2.3.2	DI-L-2114	Report, Reliability Allocation

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
35	5.6.2.3.2	DI-R-2129	Plan Maintainability Demonstration
35	5.6.2.3.3	DI-L-2155	Report, LOR (Level of Repair) Input Data
35	5.6.2.3.3	DI-L-2083	Report, LOR (Level of Repair) Status
35	5.6.2.3.3	DI-L-2084	Plan, LOR (Level of Repair) Program
35	5.6.2.3.3	DI-L-2085	Report, LOR (Level of Repair) Analysis
36	5.6.2.3.4	DI-L-2082	Report, LOR (Level of Repair) Summary
36	5.6.2.3.5	DI-R-7040	Report, Burn-In Test
36	5.6.2.3.6	DI-R-7041	Report, Failure Summary and Analysis
36	5.6.2.3.6	DI-R-7085	Failure Mode, Effects and Criticality Analysis Report
36	5.6.2.3.5	DI-R-7086	Failure Mode, Effects and Criticality Analysis Plan
36	5.6.2.3.7	DI-S-6177	Calibration/Measurement Requirement Summary (CMRS)
36	5.6.2.3.8	DI-S-3608	Time Line Sheets
36	5.6.2.3.8	DI-H-7068	Task and Skill Analysis Report
36	5.6.2.4	DI-L-7165	Maintenance Plan Report
37	5.6.2.6.1	DI-M-2070	Listing, Work Unit Code Item
37	5.6.2.7	DI-V-6180	Recommended Repair Parts List (RRPL) (Preoperational)
37	5.6.2.7.1, 5.6.2.7.5	UDI-V-21042	List, Support Material, (SML) Preoperational (Interim)
37	5.6.2.7.2	UDI-V-21043	Report, Consumption/Usage

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
37	5.6.2.7.3	UDI-V-21044	Report, Transition Status
37	5.6.2.7.4	UDI-V-21045	Report, Residual Asset, Preoperational (Interim)
37	5.6.2.7.5	DI-V-7006	Interim Support Items List (ISIL)
38	5.6.2.7.8	DI-V-7007	Tools and Test Equipment List (TTEL)
38	5.6.2.7.9	DI-V-2022	Provisioning Parts List Index
38	5.6.2.7.10	DI-V-7000	Supplementary Provisioning Technical Documentation (SPTD)
38	5.6.2.7.11	DI-V-7002	Provisioning Parts List (PPL)
38	5.6.2.7.12	DI-V-7003	Short Form Provisioning Parts List (SFPPL)
38	5.6.2.7.13	DI-V-7001	Manufacturer or Commercial Manual (Provisioning)
38	5.6.2.7.14	DI-V-7016	Provisioning and Other Preprocurement Screening Data
38	5.6.2.7.15	DI-V-7004	Long Lead Time Items List (LLTIL)
39	5.6.2.7.16	DI-V-7005	Repairable Items List (RIL)
39	5.6.2.7.17	DI-V-7009	Design Change Notices (DCN)
39	5.6.2.7.18	DI-V-7011	Post Conference List (PCL)
39	5.6.2.7.19	DI-V-2172	Post Conference Provisioning List
39	5.6.2.7.20	DI-L-7145	Logistic Support Analysis Record (LSAR) Data
39	5.6.2.8	DI-L-2179	Master Index of Repairable/Repairable Projection
39	5.6.2.10	UDI-P-21006	Data, Installation, Ground Support Equipment (GSEID)

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
39	5.6.2.11	UDI-P-21083	Plan, Integrated Logistic Support, (ILSP) Facilities Section
40	5.6.2.11.1	UDI-P-21037	Document, Facilities Requirements for Typical Shorebased and Shipboard Sites
40	5.6.2.11.2	UDI-P-21038	Report, Site Evaluation
40	5.6.2.11.2	UDI-P-21040	Data Package, Support Site Activation
40	5.6.2.12	DI-M-2190	Work Package (WP) Concept Technical Manual
40	5.6.2.12.3	DI-M-2052	Technical Manual Status Report
40	5.6.2.12.4	DI-F-6126	Report of Technical Manual Costs
40	5.6.2.13	UDI-E-21065	Plan, Integrated Logistic Support (ILSP) Depot and Intermediate Rework Support Section
40	5.6.2.14	DI-L-21575	Support Equipment Depot Level Rework Standard
40	5.6.2.15.1	DI-H-7066	Training and Training Equipment Plan
40	5.6.2.15.2	DI-H-7067	Training Courses Proposal
40	5.6.2.15.3	DI-H-7069	Training Course/Curriculum Outlines
41	5.6.2.15.4	DI-H-7070	Instructor/Lesson Guides - Training Courses
41	5.6.2.15.5	DI-H-7071	Student's Training Course Guide
41	5.6.2.15.6	DI-H-7072	Audiovisual Aids, Master Reproducibles and Review Copies for Training Equipment and Training Courses
41	5.6.2.15.7	DI-H-7074	Tests for Measurement of Student Achievement

MIL-STD-2097(AS)

PAGE(S)	PARAGRAPH(S)	DID NUMBER	TITLE
41	5.6.2.15.9	DI-H-7073	Factory Training Curriculum Materials
41	5.6.2.16	UDI-E-23127	Report, Contractor Engineering and Technical Services (CETS)
41	5.6.2.17	UDI-L-21050	List, Items Requiring Special Handling Between/Within Maintenance and Supply Department
41	5.6.2.17	UDI-L-21051	List, General Packaging, Handling, Storage and Transportability Data
41	5.6.2.17	UDI-L-21054	Plan, Integrated Logistic Support (ILSP) PHST Packaging, Handling, Storage and Transportation Section

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