DATA ITEM DESCRIPTION

FORM APPROVED
OMB NO. 0704-0188

1. TITLE

SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD)

2. IDENTIFICATION NUMBER

DI-ILSS-80118C

3. DESCRIPTION/PURPOSE

This Data Item Description (DID) identifies a report made up of six sections of Support Equipment (SE)/SE-relevant information to be used for SE acquisition, logistic support, and life-cycle management purposes. Section 1 provides narrative descriptions of the SE requirement; Section 2 contains administrative/identification data

(Continued on Page 2)

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
930316	AS		

7. APPLICATION/INTERRELATIONSHIP

7.1 This Data Item Description contains the format and content preparation instructions for data resulting from the work task as specified in 5.4.5 of MIL-STD-2097A, Appendix B, and 30.33 of MIL-STD-1388-2B.

7.2 This DID is applicable to the planning, acquisition, and associated logistics support of SE. SERDs have a continuing application throughout

(Continued on Page 2)

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		N6903

10. PREPARATION INSTRUCTIONS

10.1 Reference documents. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments and revisions, shall be as specified in the contract.

10.2 Format. The SERD shall be prepared as specified in MIL-STD-1388-2B.

a. SERDs prepared in digital format shall be produced as an output summary directly from the Logistic Support Analysis Record (LSAR) (see MIL-STD-1388-2B as referenced in Paragraph 7.1 of this DID). The LSA-070 Report contains the format and data necessary to completely satisfy the requirement for an automated SERD.

b. SERDS prepared in a non-digital format shall be produced on standard 8 1/2 x 11 inch paper, three hole punched at the left-hand, 11 inch side, for use in a standard three ring binder. Each page shall repeat Blocks 14, 15, 16, 17, 21, 11 and 12 to identify pages of the same SERD package. Spacing may be varied to accommodate required data,

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

Distribution Statement A. Approved for public release; distribution is unlimited.

3. DESCRIPTION/PURPOSE (Continued)

about the SE and the Article(s) Requiring Support; Section 3 depicts SE supersedure/deletion/distribution data; Section 4 contains design data requirements; Section 5 contains Integrated Logistics Support (ILS) data requirements; and Section 6 contains SE parametric and Unit Under Test (UUT) related information. All blocks shall be completed by the contractor/SERD preparer as original or recommended data, except those blocks for which data must be provided by the Government after SERD receipt [indicated by "(G)" after the block title].

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7. APPLICATION/INTERRELATIONSHIP (Continued)

the life of the contract and are required for each SE item.

7.3 DI-ILSS-81173 is related to this DID for an automated SERD (i.e., LSA-070 Report). DI-ILSS-81166 and DI-ILSS-80454 are related to this DID for automated and nonautomated SERDs.

7.4 This DID supersedes DI-ILSS-80118B.

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10. PREPARATION INSTRUCTIONS (Continued)

but the general disposition and sequencing of information shall not be varied without prior approval of the requiring activity. Instructions limiting data element characters by number, by type, [such as "A" (alphabetic), "N" (numeric), "X" (alphanumeric), or "D" (numeric with floating decimal point)], and by justification ["L" (left justified), "R" (right justified), "AS" (as specified) or "F" (fixed field)] will allow for automated processing of SERD data. Additional sections may be incorporated, as agreed between the approving authority and the contractor, to accommodate the peculiar needs of the system, subsystem, or equipment or acquisition program. LSAR data shall be used whenever practical. Recommended format for non-automated SERD will be the same as Figure 48, MIL-STD-1388-2B.

c. Data explanations in this DID are compiled from multiple sources and are coincident with Data Element Definitions (DEDs) as specified in MIL-STD-1388-2B. The references following each block in this DID relate to corresponding MIL-STD-1388-2B DEDs and data element codes. The data field format specification "65X--" identifies data blocks accepting narrative entries. MIL-STD-2097A, Table 1, Acquisition Tailoring Data Requirements of Support Equipment, may be referenced to develop entries for Section 4 and Section 5 Data Elements.

10. PREPARATION INSTRUCTIONS (Continued)

10.3 Section 1 - Description of Requirements. Data for Blocks 1 through 6 are entered entirely by the preparing activity to fully describe and justify the need for the recommended SE. Use a narrative format with a maximum of 65 characters per line to match the LSAR data system. There is no need to duplicate in this section data entered in Section 6. Reference Section 6 data in the appropriate Section 1 block. For narrative text in Blocks 1-6, DED 337 and DE Code TEXSEQE apply.

Block 1 - Functional Analysis. Elaborate on the functional requirements of the End Article. A statement shall give, in technical and quantitative terms, a precise description of the function requiring support including, if available, the specific operating critical and fundamental performance characteristics, corresponding tolerance or accuracy, and design criteria. Such descriptions shall address the following elements, as appropriate [414 and 147, SENARCEE and SEQNAREE]

Selected Tasks:

Adjust
Align
Calibrate
Condition
Damage control/rescue
Enter/egress
Inspect
Launch
Lift/hoist
Measure
Other (specify)
Overhaul
Protect (material/personnel)
Rebuild
Remove/install
Repair
Secure
Store
Supplement
Support
Test (confidence/post-maintenance)
Transport
Troubleshoot

Required Interval for Performance of the Task:

Periodic (specify period)
Contingent (specify contingency)

10. PREPARATION INSTRUCTIONS (Continued)

Input:

Describe the characteristic and measure of the input required to perform the specified task in technical and quantitative terms such as:

Characteristic	Measure
Phase	Quantity
Voltage	Quality
Current	Distortion
Power	Size
Frequency	Weight
Waveform	Intensity
Resistance	Force
Capacitance	Flow
Inductance	Pressure
Position	Displacement
Envelope	Temperature
Hydraulic	Shape
Pneumatic	Volume
Mechanical	Velocity
Heat	Collimation
Light	Magnification
Motion	Alignment
Optical	Other (specify)
Other (specify)	

Response (Output):

Describe the characteristic and measure of response to perform the specified task in the same technical and quantitative terms as "Input."

Environmental Conditions:

Conditions under which the SE item is to be used, such as, but not limited to:

Temperature extremes
Dust
Moisture
Icing
Explosive atmosphere (i.e., lower explosion limit (LEL))
Relative humidity
Terrain
Foundation requirements (i.e., seismic foundation)

10. PREPARATION INSTRUCTIONS (Continued)

Block 2 - Description and Function. Describe the support equipment required to satisfy the functional requirements of Block 1. The description of items shall conform to the following requirements: [414 and 078, SENARCEE and SEQNAREE]

For items covered by Government specifications/drawings or items in the inventory, identify the type designator, National Stock Number (NSN), and specification/drawing, or the manufacturer's name, Part Number (PN), and Commercial and Government Entity (CAGE) code. Alternate and interim items shall be so noted and identified in the same manner. A detailed description is not required. However, any critical or limiting characteristics that must be considered before substitution of a similar item should be stated.

For all items, the specific operating critical and fundamental performance characteristics, corresponding tolerance or accuracy, and design criteria necessary to satisfy the functional requirement stated in Block 1 shall be described. Information regarding material, finish, fragility (three "N" characters), service requirements, etc., shall be included. Capacity (or capability) of the proposed development item must be equal to that required for support of the function described in Block 1. Excess capacity (or capability) may be included for purposes of growth, margin of safety, and potential for multiple applications, provided that it can be attained within reasonable economic constraints.

For items representing or containing peculiar material requiring special treatment, precautions, or management control of the item, enter the Special Material Content Code (SMCC) one "X" character as identified in Department of Defense (DOD) 4100.38-M.

If required for clarity, hardcopy/electronic data-based supporting materials (e.g., sketches, photographs, commercial catalog schematics, SGML data files, etc.), of the equipment depicting design concepts and use shall be attached to the SERD. If the item is state-of-the-art, the contractor's proposed approach to develop the item shall be described, and Block 44 of Section 2 shall be coded "A" to denote an item requiring special management attention.

Block 3 - SE Non-proliferation Effort. Briefly narrate efforts to standardize SE/limit its proliferation by selecting DOD inventory equipment or modifying existing Government or commercial equipment (see 5.4.3 of MIL-STD-2097A). Comments should include: remarks that identify the top three

10. PREPARATION INSTRUCTIONS (Continued)

candidates considered and selected or not selected and why; a discussion of what parameters/characteristics would require change to accommodate use of available end items that do not currently provide full capability; and a description of any unsuccessful efforts to modify equipment that led to the need for PSE. The narrative shall include a list of the documents and data bases screened and Tables of Allowances (TAs) reviewed. The DI-ILSS-80040A, Support Equipment Candidate List (SECL), presents a consolidated forecast and record of SE candidates identified from experience, intuitive judgment, or during formal LSA as specified in 5.4.4.1 of MIL-STD-2097A. [414 and 415, SENARCEE and SEQNAREE]

Block 4 - Characteristics of SE. Enter a narrative definition of the operational characteristics, including minimum and maximum capabilities, of the selected support and test equipment. Add any critical or limiting characteristics that must be considered before substitution of a similar item. Narrative specifics might include: equipment type (e.g., stand alone versus in series); units of measurement (e.g., horsepower, volts, amps, watts, hertz, ft/sec, psi); degrees of measurement (e.g., "Pico" through "Giga"); and parameters, ranges, and tolerances (e.g., 10,000 to 20,000 psi ± 200). If operational characteristics are classified, so state in this block. [414 and 044, SENARCEE and SEQNAREE]

Block 5 - Installation Factors or Other Facilities. Identify briefly any unique considerations required for the installation of support and test equipment such as vibration and shock mounting requirements, special foundations, utilities connections, and environmental factors. Also, include any equipment necessary to install the item, e.g., cranes, hoists, lift trucks, transits, etc. When new or modified facilities are required to house the support equipment, a facilities data table(s) shall also be included. [414 and 169, SENARCEE and SEQNAREE]

Block 6 - Additional Skills and Special Training Requirements. Identify new skills and special training that may be required to operate/maintain the recommended SE if appropriate. This includes the estimated length of course, recommended site, justification for training, and prerequisite requirements for students. [414 and 008, SENARCEE and SEQNAREE]

10.4 Section 2 - administration data.

Block 7 - Logistic Support Analysis Control Number (LCN). Enter up to 18"X"(L) characters for the LCN that represents the hardware generation breakdown/disassembly sequence of the recommended SE end item as specified in Appendix C of MIL-STD-1388-2B. [199, LSACONXB]

10. PREPARATION INSTRUCTIONS (Continued)

Block 8 - Alternate Logistic Support Analysis Control Number Code (ALC). A two "X"(L) code used to document multiple models of a system/equipment, or alternate configurations for an item using the same LCN breakdown as specified in Appendix C of MIL-STD-1388-2B. [019, ALTLCNXB]

Block 9 - Preparing Activity. Using a maximum of 25"X"(L) characters, enter the name and division of the contractor or activity preparing the SERD. [294, PREATYEA]

Block 10 - Original Submittal Date (ORIG SUBMIT DT). Enter six "N"(F) characters to indicate the day, month, and year when the original SERD was submitted, e.g., 150487. [071, INTSUBEF]

Block 11 - CAGE Code. Enter the five "X"(F) character code from Federal Cataloging Handbooks H4/H8 that identifies the actual manufacturer (identified in Block 12) of the SE end item being recommended. [046, SECAGEEA]

Block 12 - Manufacturer's Part Number (MFR's PART NUMBER). Enter the actual manufacturer's unique number that describes the SE item. Limit entry to 32"X"(L) characters. [337, SEREFNEA]

Block 13 - Equivalent CAGE Code/Part Numbers (E-CAGE/PN). Enter a one "A" character code to indicate if equivalent CAGE/part numbers exist for the SE item represented by the SERD number in Block 14. Use a "Y" for yes, and an "N" for no. [No DED, No DE Code]

Block 13a - Equivalent CAGE Code/Part Numbers (E-CAGE PN). When a "Y" is entered in Block 13, list all known equivalent CAGE/part numbers in this block (no more than 65 characters per line). NOTE: In the SERD format, this block appears on page 5 to accommodate listing multiple E-CAGE/PNs. [046, ADCAGEHB/006, ADDREFHB]

Block 14 - SERD Number (SERD NO.). Use 10 "X" characters to identify the SERD. The first six "X"(F) positions are reserved for preparer-unique entries and are typically used to indicate the system/subsystem which the SE supports. The last four "N"(F) positions shall indicate a sequential number (beginning with 0001) assigned by the acquisition activity that identifies each specific SERD. Each unique SE item, within the specific system or subsystem that it supports, shall have a unique SERD number. The new SERD number shall also include each new part number. [416, SERDNOEF]

10. PREPARATION INSTRUCTIONS (Continued)

Block 15 - Revision (REV). This block shall be blank on the original submission. Enter up to two sequential ("A"(R)) characters to identify revision (A, B, etc.). Revision letter(s), dates, and remarks concerning revision of the SERD being prepared should be entered in Block 83. [360, SRDREVEF]

Block 16 - Revision Date (REV DT). Enter six "N"(F) characters to indicate the day, month, and year of revision submittal in Block 15, e.g., DDMMYY. Revision letter(s), date, and remarks concerning revision should be entered in Block 83. [071, DTRVSBEF]

Block 17 - Status (G). Enter one "A" character to describe the dispositioning action applied to the SERD. [404, STATUSEF]

Approved	A
Deleted (cancels SE requirement)	D
Pending further information from the contractor	C
Pending further Government evaluation	G
Contractor recommended	R
Disapproved	X

Block 18 - End Article (EA) Designator. Using a maximum of 26"X"(L) characters, identify the end article by type/model/series/suffix designators. Example entries are V-22, F-4B, T406-AD-400, AYK-14, etc. For Navy, only type and model designators shall be entered. Instructions for coding the Type, Model, and Series Designators are contained in MIL-STD-482, Appendix II, CM51. Example entries are F-4, TF34-GE-400, etc. [179, ENDARTEA]

Block 19 - End Article (EA) Name. Using a maximum of 19"X"(L) characters, identify the end article by entering its name as contained in Federal Item Name Directory for Supply Cataloging, H6. Example entries are aircraft, vertical lift; engine, turbo-fan; etc. Item names contained in H6 shall be abbreviated unless approved by the requiring authority. When applicable, nonapproved item names can be abbreviated in accordance with MIL-STD-12. Block 84 shall be used for continuation if necessary. [182, ITNAMEHA]

Block 20 - Action Date (G). Enter six "N"(F) characters to record the day, month, and year when the dispositioning action was taken (DDMMYY). [071, DTGVDSEF]

Block 21 - SE Item Name. Enter (up to a maximum of 19"X"(L) characters) the basic noun word, or noun phrase, with adjective modifiers as necessary to differentiate between items having the same basic noun word. Refer to Federal Item Name

10. PREPARATION INSTRUCTIONS (Continued)

Directory for Supply Cataloging H6 for approved item names, and concepts for developing item names for those items for which an approved item name is not contained in Catalog H6. Further modifiers to distinguish the item name shall be continued in Block 23. [182, ITNAMEHA]

Block 22 - Government Designator. Use MIL-STD-196, Joint Electronics Type Designation System; MIL-STD-1812 (ASG), Type Designation System for Aeronautical and Support Equipment; or MIL-N-18307 (ASG), Nomenclature, Identification for Aeronautical Systems including Joint Electronics Type Designated Systems, Associated Support Systems; to recommend an appropriate 20"X"(L) character (maximum) SE item identity. [149, GOVDESEA]

Block 23 - SE Full Item Name. Enter up to 42"X"(L) characters to completely identify the SE item name begun in Block 21. [412, FLITNMEA)

Block 24 - Standard Interservice Agency Serial Control Number (SIASCN (G). Enter seven "X"(F) characters to support the provisioning of multiservice systems and equipment prior to the assignment of National Stock Number and/or supported service(s) user registration. The first position indicates the executive service Inventory Control Point (ICP); the last six positions are specified by the requiring authority. [401, SIASCNEA)

Block 25 - Sketch. Enter "Y" if a sketch or line art drawing accompanies the LSA-070/SERD product, or an "N" if a sketch is not available to clarify descriptive narrative provided in Block 2. All Contractor Furnished Equipment (CFE)/nonstock numbered items will include a sketch. [383, SKETCHEA]

Block 26 - National Stock Number (NSN) and Related Data. The NSN and applicable prefix and suffix codes (if known) shall be entered in the following format [253, see below]:

PREFIX. Enter three "X" characters to identify the Dual Cognizance Code (DCC) in positions 1 and 2 [COGNSNHA], and the Material Control Code (MCC) in position 3 [MATNSNHA].

FSC. Enter four "N"(F) characters to identify the Federal Supply Classification (FSC) assigned to the item in positions 4 through 7 [FSCNSNHA].

NIIN. Enter nine "X"(F) characters to identify the National Item Identification Number (NIIN) in positions 8 through 16 [NIINSNHA].

10. PREPARATION INSTRUCTIONS (Continued)

SUFFIX. Enter up to four "X" characters to identify the two "X"(F) Special Material Identification Code (SMIC) in suffix positions 17 and 18 [SMMNSNHA], and two "X"(F) activity code in 19 and 20 (not used at all times) [ACTNSNHA]. For applicable codes, see DOD 4100.38-M.

If no NSN has been assigned to this item, leave the entire block blank.

Block 27 - Alternate NSNs. Use a one "A" character entry to indicate the existance of alternate NSNs for the SE item identified by the SERD number in Block 14 and NSN in Block 26.

Use a "Y" for yes, and an "N" for no. [No DED, No DE Code]

Block 27a - Alternate NSNs. When alternate NSNs exist, list all known alternate NSNs in this block (with no more than 65 characters per line). NOTE: In the SERD format, this block appears on page 5 to accommodate listing multiple alternate NSNs. [253, ALTFSCEH/ALTNIIEH (COMPUTER GENERATED)]

Block 28 - Contract Number. Using a maximum of 19"X"(L) characters, enter the contract number, when available, under which the SERD is prepared. [055, CNTRNOEA]

Block 29 - Responsible Agency (G). Enter the name, code, and program element for the managing command/agency. Candidates for this block are: [217, MGCOATEA]

Acquisition Decision Office (ADO). Enter up to 15"X"(L) characters to identify the activity name and code having responsibility for technical and acquisition management decisions. [002, AQDCOFEA]

Logistics Decision Office (LDO). Enter up to 15"X"(L) characters to identify the activity and code having responsibility for logistic management decisions, or the system program manager/end article item manager. [198, LGDCOFEA]

Program Element (PE). Enter up to three "X"(L) characters to identify the applicable SE Program Element specified by the requiring authority. [301, PROELEEA]

Block 30 - Program Support Inventory Control Point (PSICP) (G). Enter the two "A"(F) code to identify the supporting ICP where the using SE weapon/inventory manager is located. [303, PSICPOEA]

10. PREPARATION INSTRUCTIONS (Continued)

Block 31 - Item Category Code (ICC). Enter the appropriate two "X"(L) code provided in MIL-STD-1388-2B, DED 177, to identify the type of item/category into which the SE end item falls. Use of any common SE code generally will not require entries in Blocks 32 through 56, 107, 108, and 113 through 146. Any item identified as common support equipment (other, test, or automatic test equipment) must be traceable to Service Preferred Item Lists. [177, SEICCDEA]

Block 32 - Contractor-Furnished Equipment/Government-Furnished Equipment (CFE/GFE). Enter "C" if the item will be supplied by the contractor and "G" if Government supply is anticipated.

Common items are normally coded "G". [056, CFEGFEEA]

Block 33 - Calibration Item (CAL ITEM). Enter "Y" for Yes or "N" for No to indicate that the item recommended is/is not an item of calibration equipment. An "N" entry is required when the Task Code in Block 69 is other than "F". [038, CALITMEA]

Block 34 - Calibration Required (CAL RQD). Enter a "Y" to indicate the SE item recommended requires calibration. Enter an "N" to indicate calibration is not required. [040, CALRQDEA]

Block 35 - Service Designator Code (SER)(G). Enter one "A" character identifying the military service or nonmilitary major governmental agency having jurisdiction over, or executive management responsibility for, the acquisition [376, SERDESEA]:

Army	A
Air Force	F
FAA/All Military	J
Marine Corps	M
Navy	N
Other	O
National Security Agency	S
Federal Aviation Administration	T
All Military	X
Coast Guard	Y

Block 36 - Using Service Code (USER). Enter one or more (eight maximum) "A" characters to identify the actual or potential user(s) of the SE end item. Use Block 35 codes as applicable. [376, USESEREA]

Block 37 - Contractor Technical Information Code (CTIC) (G). Enter two "A" characters selected from MIL-STD-1388-2B, DED 058, to indicate the technical process/data required to acquire or produce the SE end item. [058, CTICODHA]

10. PREPARATION INSTRUCTIONS (Continued)

Block 38 - Source, Maintenance, and Recoverability (SM&R) Code (G). Using a maximum of six "X"(L) characters, enter the item's existing SM&R code, or propose one for a new item using the guidance in service-provided instructions such as OPNAVINST 4410.2, AR 700-82, AFR 66-45, MCO 4400.120, and DSAR 4100.6 or superseding documents. [389, SMRCSEEA]

NOTE: If the fourth position of the SM&R code is a letter other than "Z," SERD Section 5 must be completed. If ILS, other than technical manuals/orders, is applicable for "Z" items, Section 5 must also be used.

Block 39 - Type Equipment Code (TEC) (G). Enter four "X"(L) characters to identify maintenance-significant SE, i.e., any SE with repairable assemblies. The TEC [along with the Work Unit Code (WUC)] is used to input and extract data from the Maintenance Data Collection Subsystem (MDCS) of the 3-M system. The TEC identifies the end item and its application to the specific type/model/series of aircraft or equipment which it supports. When assigned, it is placed along with the Government type designation on the equipment identification plate. [480, TYPEEQEA]

Block 40 - Technical Evaluation (TECHEVAL) (G). Three "X"(F) characters will be entered to indicate the level of test, asset requirement, and TECHEVAL status associated with each item of Peculiar Support Equipment (PSE). Entries will be specified by the requiring authority. [435, TECEVLEA]

Block 41 - Technical Manual Required Code(s). If the SM&R code, Block 38, describes a consumable, i.e., "Z" in fourth position, enter the appropriate two "X"(L) code(s) (separated by commas, a series of a maximum of six) to recommend technical manuals and related documents required for the proposed SE. Enter associated cost data and technical manual identification/scope in Section 5, ILS Data Block 136. If the SE is repairable as described by the SM&R code, enter the codes and cost data in SERD Section 5. When the SE/data relates to "SE Illustrations," Code 18, enter the appropriate data (i.e., DDCC, recommendation, price, and scope data) in Section 4, Block 124. [441, TMRQCDEA]

The appropriate code(s) shall be selected from the following:

Code	Description
01	Coverage to be Included in Prime Weapon System Organizational Maintenance Manual and Illustrated Parts Breakdown (IPB) -- Applies when organizational-level maintenance is authorized for systems, components, or equipment. This code is applied only to data to be included in 01 series airframe manuals.

10.1 PREPARATION INSTRUCTIONS (Continued)

02 Organizational Maintenance Manual -- Primarily applicable to SE when operating and/or maintenance instructions are required.

03 Combined Organizational Maintenance Manual with IPB -- Primarily applicable to SE when operating and/or maintenance instructions are required.

04 Combined Organizational and Intermediate Maintenance Manual with IPB -- Applies to SE and other GFE where maintenance and operating instructions are not covered in the airframe manuals.

05 Combined Organizational, Intermediate, Depot Maintenance Manual with IPB -- Primarily applies to SE and aircraft component items such as tow target systems and ordnance dispensers not covered in airframe manuals.

06 Combined Intermediate Maintenance Manual with IPB -- Applies to simple SE and aircraft components when the highest level of maintenance is intermediate.

07 Combined Depot Maintenance Manual with IPB -- Primarily applies to simple SE and aircraft components when the maintenance concept excludes intermediate level.

08 Combined Intermediate and Depot Maintenance Manual with IPB -- Primarily assigned for intermediate level; however, limited depot information is required to support a dual level of maintenance.

09 Separate Intermediate Maintenance Manual and Separate IPB -- For complex systems, components, or equivalent when it is determined that required data would be of sufficient volume and complexity to warrant separate coverage. This code will normally apply when the maintenance concept excludes depot level.

10. PREPARATION INSTRUCTIONS (Continued)

Code	Description
10	Separate Depot Maintenance Manual and Separate IPB -- Required when it is determined that an item is of sufficient complexity and volume to warrant separate coverage. This code normally applies when the maintenance concept excludes intermediate level.
11	Separate Intermediate Maintenance Manual, Separate Depot Maintenance Manual, and Combined Intermediate/Depot IPB -- To be assigned to systems or equipment provisioned for intermediate and depot support that are of sufficient complexity and volume to warrant separate coverage.
12	Calibration Data Required -- Applies to items for which calibration is required.
13	Commercial Manuals Available and Adequate -- For off-the-shelf items where commercial manuals are considered adequate. No separate organizational, intermediate, and/or depot manuals prepared according to military specifications are required. A review of commercial manuals to determine adequacy of technical content is mandatory.
14	Commercial Manual Modified to Include MIL-M-008910A Parts Breakdown Coverage
15	Separate IPB to Support Separate Commercial Manual that is Adequate for Maintenance Support
16	Maintenance Information and IPB Data Required -- Data required will be included in the intermediate or depot manual, as appropriate, for the higher assembly or for modified existing hardware/equipment. Documentation will indicate vendor nomenclature/PN/model type/etc., of the higher assembly or modified hardware applicable.

10. PREPARATION INSTRUCTIONS (Continued)

Code	Description
17	Parts List Coverage Only Required -- To be used mainly for covering simple SE items that do not require organizational/intermediate maintenance or depot instructions, but a bit and piece breakdown is required. The parts listing may be included in weapon/system/component/equipment manual. This application may also be required to support an approved commercial manual (Code 13) when a modified commercial manual (Code 14) is not considered appropriate.
18	SE Illustrations -- Applies to SE having the potential for multipurpose support application. Note: Enter appropriate data in Section 4.
19	Change/Revision to Existing Manual -- To provide information by difference data sheets or change/revision when technical manuals are known to exist regardless of service (Navy, Air Force, Army, etc.). This code must be used in conjunction with the specific code that identifies the type of manual proposed for the update.
20	Drawings and Specifications Adequate -- The highest level of maintenance is depot, and use of intermediate maintenance manual (if applicable), commercial manuals, drawings, and specifications is adequate for support.
21	Data for Component Pilot Rework (CPR) -- Data required in support of approved CPR items.
22	Maintenance Requirements Cards -- Applies to SE for which maintenance requirements cards are required. Also applies to GFE items such as armament equipment. MIL-M-23618 applies.
23	Operator's Checklist -- Checklists are required for the operation of SE.
24	Operator's In-Flight Diagnostic Manual -- Tapes are being acquired for in-flight diagnostic equipment and data are required to interpret the readout.

10. PREPARATION INSTRUCTIONS (Continued)

Code	Description
25	Test or Diagnostic Tape -- Data, in tape form, are required for performing diagnostic or test of systems or system components.
26	Decoding Data/Manual -- Diagnostic or test tapes are being acquired and data are required to translate coded tape readout information into maintenance information. Normally assigned in combination with another code.
27	English Language Program Manual -- English language program data are required for programming test tapes for automatic test equipment.
28	Descriptive Data -- Applies primarily to SE that is not provisioned and only requires a minimum of data support such as noncomplex tools, fixtures and jigs, electrical cable assemblies, hose and tube assemblies. Application and user information, annotated illustrations, and schematics are required as appropriate.
29	Depot Data Package (DDP) -- When it is determined that the drawings and specifications are not adequate to perform complete depot maintenance, a DDP prepared according to best commercial practice (ATA-100) or equivalent which supplements the existing drawings and specifications is required. DDP applies only to depot PSE and airborne components. Each component is to be evaluated by the cognizant field activity in support of the DDP application.
30	New Type of Manual -- None of the codes listed above cover the type of manual being recommended. Justification to support the new type of manual must be provided for review and approval.
NA	Not Applicable -- Technical documentation is not applicable to the SE item recommended on this SERD.

NOTE (for Navy): All approved commercial manuals will be assigned NAVAIR manual numbers.

10. PREPARATION INSTRUCTIONS (Continued)

Block 42 - Production Lead Time. Using two "N"(R) characters, enter the computed or expected time interval in months (subsequent to the developmental phase) from time of receipt of production authority to delivery of the first production quantity. [299, PRDLDTHA]

Block 43 - Date of First Article (1ST ART). For items that must be developed (including purchased items requiring qualification), use six "N"(F) characters to enter the date when the first end item will be available. [071, DATFADEA]

Block 44 - Special Management (SPCL MGT) (G). Enter one "A" character to highlight an SE item for special management attention. Reason for management concern is indicated by the following codes [393, SPMGNTEA]:

Management Concern	Code	Criteria
Time	T	SE end item will not be available concurrently with the end article; SE ILS will not be available simultaneously with the SE end item; or the development lead time of the end item is excessive. Time is not necessarily a concern if possible alternatives or workarounds make the item available.
Price	P	SERD identified development prices or recurring unit price are substantially above the average SE end item.
State of the art	A	SE end item is state-of-the-art, requires the development of an end item specification, and/or requires reliability qualification.
Safety	S	SE end item is proposed to correct a safety defect.

10. PREPARATION INSTRUCTIONS (Continued)

Management Concern	Code	Criteria
Mission essentiality	M	SE end item is absolutely essential to conduct the end article's mission.
	N	Not applicable.

Further criteria delineations/specifications can be identified in Block 84, if warranted. Additionally, Block 84 should contain proposals to implement management reviews/reports. Example requirements include contractor development of a Reliability Program Plan, submission of the Logistic Engineering Progress Report or the Support Equipment Delivery Schedule/Delinquency Report.

Block 45 - Management Plan (MGT PLAN) (G). Enter a "Y" for Yes to direct the contractor to develop a general management/milestone plan in accordance with the Statement of Work (SOW). An "N" for No indicates that a plan will not be required. [216, MGTPLNEA]

Block 46 - Usable on Code(s). Enter a maximum of three "X"(L) characters to indicate the configuration of the end article on which the item under analysis is used. SERDs shall be accompanied by the contractor's code explanation if not previously furnished. Extending applications of a code to additional end article systems/components may be accomplished by changing the definition of the code rather than assigning a new code. [501, UOCSEIXC]

10.4.1 Physical Data.

Block 47 - Operating Dimensions and Weight. Enter up to 14 "X" characters to express the dimensions (to the nearest tenth) and units of measure of the SE end item while it is in an operational configuration, i.e., ready for use in the operational environment. The first set of four "N"(R) digits is the item's length [268, OPLENGEA]; second set of four "N"(R) digits, the width [268, OPWIDTEA]; third set of four "N"(R) digits, the height [268, OPRHGTEA]. The last two spaces [enter two "A"(F) characters] identify the unit of measure [ft (foot), in (inch), etc.] applied to the dimensions [491, LWHOUMEA]. Enter an additional six "N"(R) characters to express the weight of the item (to the nearest tenth) in the operational configuration [270, OPRWGTEA] and two "A"(F) characters to express the unit of measure [lb (pound), oz (ounce), etc.] [491, WGTOUMEA].

10. PREPARATION INSTRUCTIONS (Continued)

Block 48 - Storage Dimensions and Weight. Enter up to 14 "X" characters to express the dimensions (to the nearest tenth) and units of measure of the SE end item while it is in a stored configuration, i.e., in its stored environment. The first set of four "N"(R) digits is the item's length [405, STOLENEA]; second set of four "N"(R) digits, the width [405, STOWDTEA]; third set of four "N"(R) digits, the height [405, STOHGTEA]. The last two spaces [enter two "A"(F) characters] identify the unit of measure (ft, in, etc.) applied to the dimensions [491, LWHSUMEA]. Enter an additional six "N"(R) characters to express the weight of the SE end item (to the nearest tenth) while in its storage configuration [398, STOWGTEA] and two "A"(F) characters to express the unit of measure (lb, oz, etc.). [491, WGTSUMEA]

Block 49 - Shipping Dimensions and Weight (G). Enter up to 14 "X" characters to express the dimensions (to the nearest tenth) and units of measure of the SE end item while it is in a shipping configuration, i.e., ready for shipment. The first set of four "N"(R) digits is the item's length [419, SESHPLEA]; second set of four "N"(R) digits, the width [419, SESHPWEA]; third set of four "N"(R) digits, the height [419, SESHPHEA]. The last two spaces [enter two "A"(F) characters] identify the unit of measure (ft, in, etc.) applied to the dimensions [491, UMSHIPEA]. Enter an additional six "N"(R) characters to express the weight of the SE end item (to the nearest tenth) while in its shipping configuration [420, SESHWTEA] and two "A"(F) characters to express the unit of measure (lb, oz, etc.) [491, UMSEWTEA].

Block 50 - Shipping Modes (G). Enter up to 65"X"(L) characters to describe the shipping modes required for the SE end item being reported and any shipping/transportation requirements (storage, refrigeration, etc.). [469 and 474, TREINCJD]

10.4.2 Price Data. Blocks 51 through 56 are used to provide all price information in whole dollars related to the SERD item.

Block 51 - Hardware Development Price (HDWR DEV). Enter a maximum of eight "N"(R) characters to reflect the estimated nonrecurring price related to SE hardware development. This price includes items such as First Article Test (FAT), tooling, and special jigs, but does not include the cost of deliverable hardware or data. [153, HDWRPREA]

Block 52 - Design Data Price. Using eight "N"(R) characters, identify the total expected price (from Block 126) for budgetary planning, associated with contractor-recommended hardware/software design activities detailed in paragraph 10.7, Section 4, Blocks 113-125. (Computer will cross check this entry with Block 126). [080, DSNPRCEA]

10. PREPARATION INSTRUCTIONS (Continued)

Block 53 - Pass Thru Price. Use a maximum of eight "N"(R) characters to reflect the cost added to items bought by the prime contractor that are delivered to the Government with little or no value added by the prime contractor. [285, PASTHREA]

Block 54 - Integrated Logistic Support (ILS) Price. Use a maximum of eight "N"(R) characters to reflect the total budgetary planning price (from Block 147) associated with ILS deliverables recommended by the contractor in paragraph 10.8, Section 5, Blocks 127-146. (Computer will cross check this entry with Block 147). [170, ILSPRCEA]

Block 55 - Non-Recurring Total Price. A maximum of 10"N"(R) characters which indicate the cumulative sum of Blocks 51 through 54. [No DED, No DE Code]

Block 56 - Recurring. Use a maximum of eight "N"(R) characters to identify the recurring unit price of the SE end item. This cost is subsequent to Technical Data Package availability and does not include developmental costs. [332, RCURCSEA]

10.4.3 System Equipment Required. Blocks 57 through 66 are used to identify any end article system, subsystem, or components required at Government Furnished Aeronautical Equipment-Test Bench Installations (GFAE-TBI) to enable the SE end item to perform support functions.

Block 57 - Logistic Support Analysis Control Number (LCN). Enter the appropriate LCN (up to 18"X"(L) characters). Enter "NA" if GFAE-TBI is not applicable. Use MIL-STD-1388-2B, Appendix C for guidance. [199, LSACONXB]

Block 58 - Alternate LCN (ALC). Enter the appropriate two "X"(L) character ALC. Use MIL-STD-1388-2B, Appendix C for guidance. [019, ALTLCNXB]

Block 59 - CAGE Code. Enter the five "X"(F) character CAGE code that identifies the actual manufacturer of the GFAE-TBI. Use codes from Handbooks H4/H8. [046, SCAGECEM]

Block 60 - Manufacturer's Part Number. Enter up to 32"X"(L) characters to identify the PN of the GFAE-TBI. [337, SREFNOEM].

Block 61 - Work Unit Code (G). Enter a maximum of seven "X"(L) characters as specified by the requiring authority that identify a particular system(s) being supported. If work unit code will not be assigned, enter "NA". MIL-STD-780 applies. [516, WRKUCDHG]

10. PREPARATION INSTRUCTIONS (Continued)

Block 62 - National Stock Number (NSN) and Related Data. Enter the NSN of the GFAE-TBI (see Block 26 for data field format and DE codes). [253, see Block 26]

Block 63 - Unit of Issue Price. Enter 10"N"(R) characters to identify the unit price in dollars and cents of the GFAE-TBI. [490, UIPRICHD]

Block 64 - GFAE Designator. Enter up to 26 "X" characters to identify the type/model/series/suffix designators of the GFAE-TBI. Refer to Block 18 for additional guidance. [179, GFAEIDEM]

Block 65 - CFAE Name. Enter up to 19"X"(L) characters to identify the H6 derived item name of the GFAE-TBI. Refer to Block 19 for further guidance. [182, ITNAMEHA]

Block 66 - Quantity. Identify the number of GFAE-TBI units recommended, using a maximum of three "N"(R) characters. [320, QTYTSTEM]

10.4.4 Article(s) Requiring Support (ARS). Blocks 67 through 82 are used to describe the article(s) requiring support by the recommended SE end item. Should the article(s) requiring support be GFE to end article contract, the contractor shall complete only Blocks 71, 72, 75, and 76.

Note: Entries in this section may be duplicated in Section 6, Unit Under Test information. While an automated SERD should record entered data in all appropriate locations, preparers of manual SERDs must complete all applicable data blocks.

Block 67 - Logistic Support Analysis Control Number (LCN). Enter the appropriate LCN (up to 18"X"(L) characters) of the Article Requiring Support (ARS). Use MIL-STD-1388-2B, Appendix C for guidance. [199, UUTLCNUA]

Block 68 - Alternate LCN (ALC). Enter the two "X"(L) ALC of the ARS. Use MIL-STD-1388-2B Appendix C for guidance. [019, UUTALCUA]

Block 69 - Task Code. Enter seven "X"(F) characters using MIL-STD-1388-2B, DED 427, "a" through "f" that identify the operation and/or maintenance task associated with the ARS. [427, TASKCDCA]

Block 70 - Maintenance Plan Number. Enter a maximum of 23"X"(L) characters to identify the maintenance plan, ILSDS, Engineering Change Proposal (ECP), ILSMT action chit, etc., that documents the ARS. [209, UMNTPLUA]

ters in four data groups to provide the type/model/series/suffix designators of the ARS. [179, ITMDESXC]

Block 76 - ARS Name. Enter a maximum of 19"X"(L) characters to provide the item name of the ARS. Refer to Block 21 for additional guidance. [201, LCNAMEXB]

Block 77 - Mean Time Between Failures (MTBF-MB). Enter a maximum of 10 "D" characters that expresses for a particular interval, the total functional life of a population of an item divided by the total number of failures within the population during the measurement interval [229, TEMTBFBD]. Enter one "A" character to identify the unit of measure of the measurement interval. [229, TMTBFMBD].

Block 78 - Inherent Availability (Ai). Enter eight "N"(R) characters that express, in percent (carried to six decimal places), the probability that, when used under stated conditions in an ideal support environment without consideration for preventive action, a system will operate satisfactorily at any time. [164, INHAVABD]

Block 79 - Calibration/Measurement Requirements Summary (CMRS) Status. Enter a "Y" for Yes to indicate that a CMRS has been previously developed or is in the process of being developed for the article(s) requiring support. Enter an "N" for No to indicate that a CMRS does not exist. (If CMRS for the SE needs to be developed, it shall be ordered by making appropriate entries in Block 134.) [036, UTSTCDUB]

10. PREPARATION INSTRUCTIONS (Continued)

Block 80 - Work Unit Code. Enter a maximum of seven "X"(L) characters as specified by the requiring authority that identify a particular system(s) being supported (i.e., flight controls, radar, etc.). If work unit code will not be assigned, enter "NA." MIL-STD-780 applies. [516, WRKUCDHG]

Block 81 - Allowance (G). Enter a maximum of 10"X"(L) characters to identify the Table of Allowance or Allowance List Code that will be the allowance source document for the ARS. Enter "N" if equipment allowance list code will not be used. [016, UTALLOUA]

Block 82 - Work Package Reference (WORK PKG REF). Enter six "X"(L) characters to identify the technical manual/ technical order section that shows all tools and SE used to maintain the ARS. [515, UTWPRFUA]

10.4.5 Narrative Remarks and Explanation.

Block 83 - Revision Remarks. If the SERD being prepared is a revision, enter here the revision letter, revision date, action date (G) and revision remarks which summarize the reason for the revision. For SERDs that have been revised more than once (i.e., revision B, C, etc.), this block shall include the revision data and remarks of all previous revisions and therefore serve as a history for the SERD. Use a maximum of 65 characters per line. [417, REVREMEG]

Block 84 - Explanation.

Enter narrative using a maximum of 65 characters per line.

Narrative statements may be used to explain a condition not readily identified in a given data element or to substantiate a decision on a particular element which requires additional comment. When the information is related to a specific data element, the explanation should be prefaced with a reference to that element. Place a "C" or "G" in parenthesis after the entry to indicate source to contractor or Government, respectively. [411, SEQNAREE and 414, SENARCEE]

NOTE: The following requirement is not covered in another SERD block:

ACC Remarks (G). Enter additional information/instructions of interest to the Aircraft Controlling Custodian (ACC).

10.5 Section 3 - Supersedure/Deletion/Distribution Data.

10. PREPARATION INSTRUCTIONS (Continued)

10.5.1 Supersedure/Deletion Data. Blocks 85 through 96 are used to display those data elements which describe two unique SERD supersedure relationships and Block 97 is used to indicate the reason for deletion code of the SERD identified in Block 14.

10.5.1.1 Supersedure Data. Supersedure relationships involve those SE items which:

(a) are superseded by the SE item of the SERD identified in Block 14 (Blocks 85-90);

(b) supersede the SE item of the SERD identified in Block 14 (Blocks 91-96).

NOTE: All line entries shall be completed for those supersedure relationships which exist.

Block 85 - SERD Number. Record the SERD number (10 "X" characters) of each SE item which is superseded by the SE item of the SERD identified in Block 14. [416, SUSRNOEK]

Block 86 - Reason for Supersedure. Enter the two "X"(F) code that identifies the reason for supersedure of the SERD(s) listed in Block 85. [327, REASUPEK] The codes are as follows:

Code	Code Remarks
F1	Deleted from inventory.
F2	Superseded for future acquisition. Use for ECP changed items only.
F3	Alternate.

Block 87 - CAGE Code. Enter the five "X"(F) character CAGE code of the manufacturer of each SE item corresponding to each SERD number in Block 85. [046, SPRCAGEK]

Block 88 - Manufacturer's Part Number. Enter up to 32"X"(L) characters to indicate the part number assigned by the actual manufacturer of each superseded SE item. [337, SPRREFEK]

Block 89 - SE Item Name. Enter the name of each superseded SE item. Use up to 19"X"(L) characters. [182, SUPITNEK]

Block 90 - Interchangeability Code (IC). Enter the appropriate two "A"(F) character IC code when each item identified in Blocks 85 through 89 can be exchanged with the SE item of the SERD identified in Block 14. The codes are as follows: [172, ICCODEEK]

10. PREPARATION INSTRUCTIONS (Continued)

Signifies One-Way (OW) interchangeability as follows:

(1) When used for a change to the original item, means that the original item may be used until exhausted. OW

(2) When used for the replacement item, OR means that the new item may be used to replace the original item. OR

Signifies that the original item and the replacement item are interchangeable with each other. TW

Signifies that the item is Not Interchangeable (NI) as follows:

(1) When used for the original item, NI means that the item is not interchangeable with the replacement item. NI

(2) When used for the replacement item, NR means that the replacement item is not interchangeable with the original item. NR

Signifies that the original item is interchangeable with the replacement item only if modified to the replacement item configuration and only in the new application. OM

Signifies that the original item is interchangeable in both the old and new application only if the original item is modified to the replacement configuration. TM

Block 91 - SERD Number. Record the SERD number (10 "X" characters) of each SE item which supersedes the SE item of the SERD identified in Block 14. [416, SUSRNOEK]

Block 92 - Reason for Supersedure. Enter the two "X"(F) code that identifies the reason for supersedure of each SERD listed in Block 91. NOTE: Use the appropriate code from the list of codes found in Block 86. [327, REASUPEK]

Block 93 - CAGE Code. Enter the five "X"(F) character CAGE code of the manufacturer of each SE item corresponding to each SERD number in Block 91. [046, SPRCAGEK]

Block 94 - Manufacturer's Part Number. Enter up to 32"X"(L) characters to indicate the part number assigned by the actual manufacturer of each SE item which supersedes the SE item of the Block 14 SERD. [337, SPRREFEK]

10. PREPARATION INSTRUCTIONS (Continued)

Block 95 - SE Item Name. Enter name of each SE item which supersedes the SE item of the Block 14 SERD. Use up to 19"X"(L) characters. [182, SUPITNEK]

Block 96 - Interchangeability Code (IC). Enter the appropriate two "A"(F) character IC code when each item identified in Blocks 91 through 95 can be exchanged with the SE item of the SERD identified in Block 14. Use the appropriate code from the list of codes found in Block 90. [172, ICCODEEK]

10.5.1.2 Deletion Data.

Block 97 - Reason for Deletion. Enter the two "X"(F) code that specifies the reason for deleting the SERD identified in Block 14. The codes are as follows: [327, REASUPEK]

Code	Code Remarks
A1	Evaluation pending - Original SERD only.
B1	Not essential (luxury item) - Original SERD only.
B2	Not essential (no maintenance required on ARS - Original SERD only.
B3	Not essential (system redesign) - SERD revision only.
B4	Not essential (component redesign) - SERD revision only.
B5	Not essential (revised maintenance concept) - SERD revision only.
B6	Not essential (end article (EA) not in configuration).
B7	Not essential (application already included in basic EA).
C1	Commercial rework of Block 72 item. "D" maintenance level only. Original SERD.
D1	Contractor resubmit - An original SERD must be approved/deleted. A SERD revision must show a reason for disagreement in Block 84 rather than this delete code.
G1	The SERD item is a part of another SE item.

10. PREPARATION INSTRUCTIONS (Continued)

Code	Code Remarks
H1	Deletion of an equivalent SERD (machine generated).
I1	Not SE.
J1	SE for GFE - For CFE end articles only.

10.5.2 Distribution Data.

10.5.2.1 Allocation Data. Blocks 98 through 108 provide information regarding allocation data. Entries in Blocks 98 through 105 define the maintenance level where the SE will be used, the allowance list to which the SE end item is to be assigned, and the basis of issue/allowance range that specifies the quantity of end articles shown in the column headings 1-4, 5-8, etc.

Block 98 - Allowance (G). The Government enters a maximum of 10"X"(L) characters to identify the allowance list code or Table of Allowance that will be the allowance source document for the support equipment end item. [016, ALDCNMEB]

Block 99 - Station ID Number (SIDN) (G). Enter the appropriate five "X"(L) code to identify a specific ATE station or location with the associated allowance list. [015, ALSTIDEB]

Block 100 - Maintenance Level Function (MLF) (G). The Government will enter a maximum of two "X"(L) characters to identify the maintenance level function that uses the SE end item. [015, ALMLVLEB]

NOTE: The assigned code must concur with the third position of the Task Code assigned in Block 69.

Block 101 - Land, Vessel Code (LVC) (G). Enter "L" or "V" to restrict and control the selection of items required for different environmental conditions and maintenance responsibilities. Enter "B" for both land and vessel. [015, ALLVCDEB]

Block 102 - Custody Code (G). Enter the proper code (one "A" character) for calibration management and usage of SE to be obtained from the supporting aircraft Intermediate Maintenance Activity (IMA). The codes are as follows: [069, CUSTCDEA]

Code E - This code is assigned to items used infrequently (less than once per month), and indicates the item is available from the supporting IMAs as required. Supporting IMAs are authorized a predetermined quantity which is sufficient in

10.3 PREPARATION INSTRUCTIONS (Continued)

view of the infrequent use. These items are made available to activities by the IMA, and after use are returned to the supporting IMA.

Code P - This code is assigned to items weighing over 200 pounds (over 300 pounds for wheeled equipment), exceeding any one of the following dimensions in a stowed configuration: 6′ x 3′ x 2′, fragile or subject to misalignment or loss of calibration through transportation or not coded for infrequent use. When authorized for supporting IMAs, the IMA quantity is the total quantity required for subcustody issue to each organizational maintenance activity. These items are issued on a subcustody basis for full-time utilization, and will be returned to the IMA prior to deployment. When deployed, user activities will be issued these items on a subcustody basis from the new supporting IMA.

Code L - This code is assigned to all items requiring calibration and management, designated for use at the organizational level of maintenance, and not already coded "E" or "P".

The quantity authorized will be the total quantity required for subcustody by each activity supported. These items are retained by organizational activities when deployed.

Code D - This code is assigned to items listed only in a detachment list code, requiring management, and having a custody code of "P" or "E". These are retained by the detachment during deployment. Code "D" will take precedence in Individual Material Readiness List (IMRL) printing, and the "D" coded item will be allowanced in the same manner as the "P" coded item listed. For example, Code "D" would apply to items required on air-capable ships by deployable detachments.

Code M - This code is assigned to noncalibratable items requiring management that are not otherwise custody coded. These items will be allowanced in the same manner as "L" coded items. Applicable items will be identified by SECAs and assigned code "M" by Naval Air Warfare Center personnel. (Examples: a noncalibratable item used with a calibratable item; a carrying case for a calibratable item when listed in the source data as a separate end item.)

Code N - This code is automatically assigned to items that do not require calibration or management and consequently are not otherwise custody coded.

<u>Block 103 - Designation Description (DESIG DESCRIP) (G)</u>. Enter nine "X"(F) characters to describe the method of allowancing items other than via 10-column spread of Block 104. [015, ALDNDSEB]

10.3 PREPARATION INSTRUCTIONS (Continued)

Block 104 - Allowance Range (G). This entry specifies the quantity of end items (entered in three "N"(R) character subfields) allowed to support the range of end articles shown in the 10-column headings. [015, ALORG1EB through ALORG9EB and ALRG10EB]

Block 105 - Extended Range (EXT RNG). This entry of three "X"(R) characters accommodates the need for a range of items beyond Block 104 allowances. [015, ALEXRNEB]

Block 106 - Mobile Facility Code. Enter "V" for an SE item required only for the Mobile Facility (MF). Enter "X" for an end item that is not suitable for MF sites. Enter "N" to indicate that there are no restrictions in application to MFs or other site categories. [248, MOBFACEA]

Block 107 - Spare Factor (G). Enter a four "X"(F) character percentage for consumables (e.g., P010 = 10%) or quantity (QXXX) of SE items to be acquired over and above operational quantities. If no spare end items are required, the code assigned shall be Q000. [390, SPRFACEA]

Block 108 - Revolving Assets (G). Enter four "X"(F) characters (QXXX) to indicate the quantity of SE items to be acquired to offset the out-of-service requirement of the user's end item. This quantity should include requirements for repair or calibration. If no revolving assets are required, the code entered shall be Q000. Block 111 shall indicate the activity(s) that will receive the revolving assets. [361, REVASSEA]

10.5.2.2 Specific Authorizations. Blocks 109 through 112 recommend the types and names of any activities that should receive special authorization of the proposed SE.

Block 109 - Number of Activities (G). Enter up to three "N"(R) characters to identify the number of activities of a specific type covered in the allocation area (e.g., six depots, two squadrons), or enter "0" if a number would be irrelevant to the recommendation. [399, NUMACTED]

Block 110 - Type of Activity (G). Enter up to 15"X"(L) characters to identify the activity by type. Enter a one "N" character code to identify the type of activity that will receive special authorizations of the proposed SE. Use the following codes: [399, TYPACTED]

10. PREPARATION INSTRUCTIONS (Continued)

Code	Description
1	Contractor (bail site)
2	Training
3	Test site
4	Specialized Repair Activity (SRA)
5	Inspect and Repair as Necessary (IRAN)
6	Depot
7	Other (explain in Block 84)

Enter "0" if special authorizations are not required.

Block 111 - Name/Location of Activity (G). Using a maximum of 50"X"(L) characters, identify the station/base (e.g., MCAS Cherry Point, NAS Pensacola) and its AMMRL Activity Identifier/Activity Address Indicator to which the special authorizations will be provided. Enter "NA" if special authorizations are not required. [399, ACTNAMED]

Block 112 - Quantity per Activity (G). Using a maximum of three "N"(R) characters, enter the quantity of SE recommended for each activity specified in Block 111. [399, SEQTYAED]

10.6 Section 4 - Design Data. This section (Blocks 113 through 126) of the SERD summarizes design engineering, ECP and configuration control, reliability, quality assurance, safety and human factors, test and evaluation methods, SE illustrations, and associated deliverables. Space is provided for the contractor's estimated budgetary price to deliver each recommended item and for a brief statement of the scope of deliverables recommended. Refer to MIL-STD-2097, 5.6.1, and associated Table 1 references for details on Government requirements relevant to this section. Block 126 shall reflect the total estimated budgetary price for Design Data items.

Design Data Category Code (DDCC). Enter the appropriate one "A" character using MIL-STD-1388-2B, DED 079, indicating the design data being considered, which are recommended or not recommended by the contractor or Government. Codes are as follows: [079, DSNDATEJ]

113.	Support Equipment (SE) Standardization	A
114.	SE Specification	B
115.	Design Engineering	C

10. PREPARATION INSTRUCTIONS (Continued)

116.	Configuration Control	D
117.	Reliability	E
118.	Maintainability	F
119.	Quality Assurance	G
120.	Safety	H
121.	Human Engineering	I
122.	Test & Evaluation	J
123.	Computer Resources	K
124.	SE Illustrations	L
125.	Other	TBD

Contractor Recommended. Enter a "Y" for Yes to indicate that design data are contractor recommended. Enter a "N" for No to indicate that design data are not contractor recommended. [057, CNTRECEJ]

Government Required. Enter a "Y" for Yes to indicate that design data are Government required. Enter a "N" for No to indicate that design data are not Government required. [150, GOVRQDEJ]

Estimated Price. Use a maximum of eight "N"(R) characters to reflect the total estimated price (whole dollars) associated with each contractor recommended/Government required design data for budgeting and planning. [101, ESTPRCEJ]

Scope. Enter the applicable data item description (a maximum of 40"X"(L) characters) corresponding to the desired requirement/data. [365, DDCCSCEJ]

Block 126 - Design Data Price. These eight "N"(R) characters indicate the total estimated budgetary price (whole dollars) for Design Data items. Also, enter this total estimated price in Block 52. [080, DSNPRCEA]

10.7 Section 5 - Integrated Logistic Support (ILS) Data. This section (Blocks 127 through 147) of the SERD specifies ILS services and data that require the contractor's consideration during the SE proposal process. Each ILS service and data requirement in this section as specified in 5.7.2 of MIL-STD-2097A, is to be annotated in appropriately marked columns to reflect the contractor's recommendation(s) for this service/data and the contractor's estimated budgetary price to deliver the recommended items as described in the Scope column. By exception, appropriate "SE illustrations" requirements shall be annotated in Section 4, Block 124 (not in this section, Block 136). Block 147 shall reflect the total estimated budgetary price for these ILS items.

10. PREPARATION INSTRUCTIONS (Continued)

Integrated Logistics Support Requirements Category Code (IRCC). Enter the appropriate one "A" character using MIL-STD-1388-2B, DED 171, indicating the Integrated Logistic Support requirements. Codes are as follows: [171, IRCCODEL]

127.	ILS Plan	A
128.	LSA	B
129.	Maintenance Plan	C
130.	Support Materials List	D
131.	Repair of Repairables	E
132.	Provisioning Technical Documentation	F
133.	Master Index of Repairables (MIR)	G
134.	Calibration/Measurement Requirements Summary (CMRS)	H
135.	Facilities Data	I
136.	Technical Manuals	J
137.	Maintenance Requirements Cards (MRCs)	K
138.	ICPs	L
139.	Phased Support Plan	M
140.	Component Pilot Rework/Repair (CPR/R)	N
141.	Rework Standard	O
142.	New Start	P
143.	Training	Q
144.	Contractor Engineering and Technical Services (CETS)	R
145.	Packaging, Handling, Storage, and Transportation (PHS&T)	S
146.	Other	T

Contractor Recommended. Enter a "Y" for Yes to indicate that ILS requirement is contractor recommended. Enter an "N" for No to indicate that ILS requirement is not contractor recommended. [057, CONRECEL]

Government Required. Enter a "Y" for Yes to indicate that ILS requirement is Government required. Enter an "N" for No to indicate that ILS requirement is not Government required. [150, GOVRQDEL]

Estimated Price. Use a maximum of eight "N"(R) characters to reflect the total estimated price (whole dollars) associated with each contractor recommended/Government required ILS requirement for budgeting and planning. [101, ESTPRCEL]

Scope. Enter the applicable data item description (a maximum of 40"X"(L) characters) corresponding to the desired requirement/data. [365, IRCSCOEL]

10. PREPRATION INSTRUCTION (Continued)

Block 147 - ILS Price. These eight "N"(R) characters indicate the total estimated budgetary price (whole dollars) for the ILS items. Also, enter this total estimated price in Block 54. [170, ILSPRCEA]

10.8 Section 6 - Support Equipment Parameters and Unit Under Test Related Information. This section identifies the parameters that the SE is capable of measuring, and contains UUT related information about hardware and software elements required to test the UUT.

10.8.1 SE Parameters (blocks 148 through 155).
(NOTE: Use multiple entries as required.)

Block 148 - Parameter Grouping Code (PGC). Enter a two "A"(F) code linking SE parameters to the UUT parameters. [284, PARGPCEC]

Block 149 - Input/Output (I/O). Enter a one character code that identifies the corresponding SE parameter as either input into equipment, or output from equipment. [284, SPARIOEC]

Input into equipment	I
Output from equipment	O

Block 150 - Parameter. A 12"X"(L) entry indicating the characteristic (e.g., volts, amps, Hertz, etc.) that the SE is capable of measuring. [284, PARPAREC]

Block 151 - Range-From. A 10 "D" entry specifying the lowest parameter which can be measured by the SE. [284, RNGFRMEC]

Block 152 - Range-To. Enter the highest value (10 "D") of a particular parameter which can be measured by the SE. [284, RNGTOCEC]

Block 153 - Accuracy. Enter up to a 26"X"(L) narrative description of the tolerance of the corresponding parameter. [284, PARACCEC]

Block 154 - Range/Value (R/V) Code. Enter a one character code to identify specific parameters as either a "range", or a "value". [284, PARRVCEC]

Range	R
Value	V

Block 155 - Calibration Procedure. Enter up to 20"X"(L) characters citing the technical manual, order number or instruction that specifies the calibration procedure. [039, CALPROEC]

10. PREPARATION INSTRUCTIONS (Continued)

10.8.2 UUT Related Information (blocks 156 through 209). Entries in this section may be duplicated in Section 2, Articles Requiring Support. While an automated SERD should record entered data in all appropriate locations, preparers of manual SERDs must complete all applicable data blocks. (NOTE: Use multiple entries for more than one UUT as required.)

10.8.2.1 UUT Information (Blocks 156 through 169).

Block 156 - Logistic Support Analysis Control Number (LCN). Enter the LCN (up to 18"X"(L) characters) that represents the hardware generation breakdown for the UUT requiring support/test equipment. Refer to MIL-STD-1388-2B Appendix C for guidance. The LCN entered in this block also links Test Program Set (TPS) data in Blocks 186 through 205 directly to the UUT, via LCN. [199, UUTLCNUA]

Block 157 - Alternate LCN (ALC). Enter the appropriate two "X"(L) character ALC. See MIL-STD-1388-2B Appendix C for guidance. [019, UUTALCUA]

Block 158 - Commercial and Government Entity (CAGE) Code. Enter the five "X"(F) code that identifies the actual manufacturer of the UUT. See Cataloging Handbook H4/H8 Series. [046, CAGECDXH]

Block 159 - Manufacturer's Part Number. Enter up to 32"X"(L) characters that identify the manufacturer's part number for the UUT. [337, REFNUMHA]

Block 160 - Item Name. Enter up to 19"X"(L) characters identifying the UUT as contained in the Federal Item Name Directory for Supply Cataloging, H6. Item names contained in H6 cannot be abbreviated unless approved by the requiring authority. When applicable, nonapproved item names can be abbreviated as specified in MIL-STD-12. [182, ITNAMEHA]

Block 161 - Maintenance Plan Number (G). Enter up to 23"X"(L) characters assigned by the Government to identify an approved maintenance plan. [209, UMNTPLUA]

Block 162 - Test Requirements Document (TRD) Number. Enter up to 15"X"(L) characters assigned to the Test Requirements Document as specified in MIL-STD-1519. [448, UTTRDNUA]

Block 163 - Calibration/Measurement Requirements Summary (CMRS) Status. Enter one character to indicate if a CMRS has been previously developed, or is in the development process for the UUT. [036, UTSTCDUB]

10. PREPARATION INSTRUCTIONS (Continued)

Yes	Y
No	N

Block 164 - Calibration/Measurement Requirements Summary (CMRS) Recommended. Enter a one character code that indicates whether or not a CMRS is recommended for the UUT. [035, UTCMRSUB]

Category I	1
Category II	2
Category III	3
Not recommended for CMRS	N

Block 165 - Allowance. Enter up to 10"X"(L) characters to identify the Army Table of Organization and Equipment (TO&E), the Navy List Code, or the Air Force Table of Authorization that will be the allowance source document for the UUT. [016, UTALLOUA]

Block 166 - Work Package Reference. Enter a six "X"(L) code to identify the technical manual/technical order section showing all tools and support equipment used to maintain the UUT. [515, UTWPRFUA]

Block 167 - Conversion Factor. Enter the five "N" number used to convert the Annual Operating Requirements of the system/equipment to the Annual Operating Requirements of the UUT. Refer to MIL-STD-1388-2B, DED 059 for specific codes and directions. [059, CONVFABA]

Block 168 - Mean Time Between Failures (MTBF-MB). For the UUT, enter a maximum of 10"D" characters that express for a particular interval, the total functional life of a population of an item divided by the total number of failures within the population during the measurement interval [229, TEMTBFBD]. Enter one "A" character to identify the unit of measure of the measurement interval. [229, TMTBFMBD]

Block 169 - Price. Enter 10 "N"(R2) characters to identify the unit price of the UUT in dollars and cents. [490, UIPRICHD]

10.8.2.2 UUT Parameters (Blocks 170 through 179).
(NOTE: Use multiple entries as required.)

Block 170 - Parameter Grouping Code (PGC). Enter a two "A"(F) code linking the UUT parameters to the SE parameters. [284, UUTPGCUG]

10. PREPARATION INSTRUCTIONS (Continued)

Block 171 - Input/Output (I/O). Enter a one character code that identifies the corresponding UUT parameter as either input into equipment, or output from equipment. [284, UUTPIOUG]

Input into equipment	I
Output from equipment	O

Block 172 - Parameter. A 12"X"(L) entry indicating the characteristic (e.g., volts, amps, Hertz, etc.) that the UUT is capable of measuring. [284, UUTPARUG]

Block 173 - Range-From. Enter 10 "D" characters that specify the lowest parameter which can be measured by the UUT. [284, UUTPRFUG]

Block 174 - Range-To. Enter the highest value (10 "D") of a particular parameter which can be measured by the UUT. [284, UUTPRTUG]

Block 175 - Accuracy. Enter up to a 26"X"(L) character narrative description of the tolerance of the corresponding parameter. [284, UUTPACUG]

Block 176 - R/V Code. Enter a one character code to identify specific parameters as either a "range", or a "value". [284, UUTPRVUG]

Range	R
Value	V

Block 177 - Task Code. Enter the seven "X"(F) code that uniquely identifies the operator and/or maintenance task associated with the UUT. Refer to MIL-STD-1388-2B, DED 419 for subfields and codes. [427, TASKCDCA]

Block 178 - Calibration/Measurement Requirements Summary Parameter (CMRSP) Code. Enter a one character code specifying whether or not the specific parameter is to be included in the calibration/measurements requirements summary for the UUT. [034, UUTPPCUG]

Parameter is included in the CMRS	Y
Parameter is not included in the CMRS	N

Block 179 - Test Accuracy Ratio (TAR). Enter a one position "X" code specifying the ratio of the accuracy of the Test Measurement and Diagnostic Equipment (TMDE) to that of the UUT parameter being measured. The first position specifies the desired TAR and the second position the actual TAR. Use the following codes: [442, UUTPTDUG, UUTPTAUG]

10. PREPARATION INSTRUCTIONS (Continued)

TMDE Accuracy Versus UUT Parameter	Code
1:1	1
2:1	2
3:1	3
4:1	4
5:1	5
6:1	6
7:1	7
8:1	8
9:1	9
10:1	0

10.8.2.3 Fault Isolated Replaceable Units (Blocks 180 through 185). This data series is used to list units or items within the UUT that have been isolated by the operational test program as being faulty, and under the maintenance concept for the UUT that were coded as replaceable. (NOTE: Use multiple entries as required.)

Block 180 - CAGE Code. A five "X"(F) code that identifies the actual manufacturer of the fault isolated replaceable unit. See Cataloging Handbook H4/H8 series. [046, PROCAGCI]

Block 181 - Manufacturer's Part Number. Enter up to 32"X"(L) characters that uniquely identify the specific fault isolated replaceable unit. [337, PROREFCI]

Block 182 - Item Name. Enter up to 19"X"(L) characters identifying the fault isolated replaceable unit as contained in the Federal Item Name Directory for Supply Cataloging, H6. [182, ITNAMEHA]

Block 183 - Test Requirements Document Indicator (TRD IND). Enter a single code indicating whether or not the fault isolated replaceable unit has a TRD assigned to it. [447, UUTFTDUH]

Assigned	Y
Not assigned	N

Block 184 - Fault Isolation (ISO). Enter a five "N" two-part code that identifies which particular unit or group of units is at fault for a malfunction or failure. The following subfields relate to a Built-In-Test (BIT) capability to fault isolate:

10. PREPARATION INSTRUCTIONS (Continued)

a. Ambiguity Group (AMBR) - A two "N"(R) code that identifies a set of items at the same level of indenture having properties such that BIT can determine that at least one of the set is faulty, but is unable to determine which particular one is faulty. [143, UUTFA1UH]

b. Percent (PCT) Failure - A three "N"(R1) code that indicates the percent of an item's probable malfunctions which can be isolated within a specific ambiguity group by means of BIT. [143, UUTFP1UH]

Block 185 - Fault Isolation. Use this block when the ATE/TMDE fault isolates to more than one ambiguity group but is unable to determine which group is faulty. Use definitions in Block 183.

a.	Ambiguity Group	[143, UUTFA2UH]
b.	Percent Failure	[143, UUTFP2UH]

10.8.2.4 UUT Test Program Sets (Blocks 186 through 205). Enter Test Program Set (TPS) data that applies specifically to the UUT identified by the LCN in Block 156. This LCN is repeated at the beginning of the SERD format, page 10, for clarity.

10.8.2.4.1 Operational ATE/TMDE Test Program (Blocks 186 through 192). (NOTE: Use multiple line entries as required.)

Block 186 - CAGE Code. Enter the five "X"(F) code that identifies the actual manufacturer of the ATE/TMDE test program. See Cataloging Handbook H4/H8 series. [046, OTPCAGUC]

Block 187 - Manufacturer's Part Number. Enter up to a 32"X"(L) code that uniquely identifies the specific ATE/TMDE test program. [337, OTPREFUC]

Block 188 - SERD Number. Enter the 10 "X" SERD number that identifies the operational ATE/TMDE test program. See Block 14 instructions for further guidance. [416, OTPSRDUC]

Block 189 - Item Name. Enter up to 19"X"(L) characters identifying the ATE/TMDE test program as contained in the Federal Item Name Directory for Supply Cataloging, H6. [182, ITNAMEHA]

Block 190 - Apportioned Unit Cost. Enter the total nonrecurring cost (U.S. dollars) of development, tooling, and manufacture, and other nonrecurring costs for the ATE/TMDE test program [eight "N"(R)]. Also enter the recurring manufacturer's cost (parts, labor and material) for the ATE/TMDE test program [eight "N"(R)]. [025, OTPACNUC, OTPACRUC]

10. PREPARATION INSTRUCTIONS (Continued)

Block 191 - Standards for Comparison (STAN COMP). Enter a one character code that indicates whether or not a standard has been identified against which the support/test equipment was compared for testing of the UUT. [402, OTPSFCUC]

Standard identified	Y
Standard not identified	N

Block 192 - Coordinated Test Plan (CTP). Enter a single code to indicate whether the CTP is adequate to verify the suitability of the support/test equipment to the UUT. [060, OTPCTPUC]

Adequate	Y
Not adequate	N

10.8.2.4.2 Test Program Instruction (Blocks 193 through 199). (NOTE: Use multiple line entries as required.)

Block 193 - CAGE Code. Enter the five "X"(F) code that identifies the actual manufacturer of the test program instruction. See Cataloging Handbook H4/H8 series. [046, TPICAGUE]

Block 194 - Manufacturer's Part Number. Enter up to a 32"X"(L) character code that uniquely identifies the specific test program instruction. [337, TPIREFUE]

Block 195 - SERD Number. Enter the 10"X" SERD number that identifies the test program instruction. See Block 14 instructions for further guidance. [416, TPISRDUE]

Block 196 - Item Name. Enter up to 19"X"(L) characters identifying the test program instruction as contained in the Federal Item Name Directory for Supply Cataloging, H6. [182, ITNAMEHA]

Block 197 - Apportioned Unit Cost. Enter the total nonrecurring cost (U.S. dollars) of development, tooling, and manufacture, and other nonrecurring cost for the test program instruction (eight "N"(R)). Also enter the recurring manufacturer's cost (parts, labor, and material) for the test program instruction (eight "N"(R)). [025, TPAUCNUE, TPAUCRUE]

Block 198 - Technical Data Package (TDP). Enter a single character code indicating whether or not an adequate TDP is available for acquisition of test programs and test program instructions to test the UUT. [434, TPITDPUE]

Available	Y
Not available	N

10. PREPARATION INSTRUCTIONS (Continued)

Block 199 - Self Test. Enter a single character code indicating the self test capability of the test program instruction. [370, TPISTSUE]

Manually induced self test	M
Automatic self test	A
No self test	N

10.8.2.4.3 Adapter/Cable Set/Interconnecting Device (Blocks 200 through 205). NOTE: Multiple line entries as required.)

Block 200 - Commercial and Government Entity (CAGE) Code. Enter the five "X"(F) code that identifies the actual manufacturer of the adapter/cable set/ interconnecting device. See Cataloging Handbook H4/H8 series. [046, AIDCAGUI]

Block 201 - Manufacturer's Part Number. Enter up to a 32"X"(L) code that uniquely identifies the specific adapter/cable set/interconnecting device. [337, AIDREFUI]

Block 202 - SERD Number. Enter the 10"X" SERD number that identifies the adapter/cable set/interconnecting device. See Block 14 instructions for further guidance. [416, AIDSRDUI]

Block 203 - Item Name. Enter up to 19"X"(L) characters identifying the adapter/cable set/interconnecting device as contained in the Federal Item Name Directory for Supply Cataloging, H6. [182, ITNAMEHA]

Block 204 - Apportioned Unit Cost. Enter the total nonrecurring cost (U.S. dollars) of development, tooling, and manufacture, and other nonrecurring cost for the adapter/cable set/interconnecting device (eight "N"(R)). Also enter the recurring manufacturer's cost (parts, labor, and material) for the adapter/cable set/interconnecting device (8"N"(R)). [025, AIDUCNUI, AIDUCRUI]

Block 205 - Common Unit Under Test (UUT). Enter two "N"(R) characters to indicate the number of UUTs with which the adapter/cable set/interconnecting device can be used. [048, AIDCUTUI]

10.8.2.4.4 ATE Test Station (Blocks 206 through 209). (NOTE: Use multiple entries as required.)

Block 206 - Commercial and Government Entity (CAGE) Code. Enter the five "X"(F) code that identifies the actual manufacturer of the ATE test station. See Cataloging Handbook H4/H8 series. [046, ATECAGUK]

10. PREPARATION INSTRUCTIONS (Continued)

Block 207 - Manufacturer's Part Number. Enter up to a 32"X"(L) character code that uniquely identifies the ATE test station. [337, ATEREFUK]

Block 208 - Item Name. Enter up to 19"X"(L) characters to identify the ATE test station. Refer to Federal Item Name Directory for Supply Cataloging, H6. [182, ITNAMEHA]

Block 209 - Government Designator. Using up to 20"X"(L) characters, enter the Government Designator for the ATE test station. Refer to Block 22 instructions for further guidance. [149, ATEGDSUK]

10.8.3 Support Equipment/Unit Under Test (UUT) Related Remarks.

Block 210 - SE/UUT Related Remarks (Narrative). Use this block to further explain, justify, or substantiate any data entry discussion concerning UUT related data Blocks 148 through 209. [498, UTEXPLUF]