

NOTICE OF CHANGE

DOD-STD-1768A
NOTICE 1
17 February 1993

DEPARTMENT OF DEFENSE STANDARD
PROCEDURES FOR DEVELOPMENT
OF
DEPOT TECHNICAL DATA

TO ALL HOLDERS OF DOD-STD-1768A (USAF):

1. THE FOLLOWING PAGES OF DOD-STD-1768A HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
Cover Page	17 February 1993	Cover Page	05 June 1989
ii	17 February 1993	ii	05 June 1989
1	17 February 1993	1	05 June 1989
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16	17 February 1993	16	05 June 1989
19	17 February 1993	19	05 June 1989
20	05 June 1993	20	Reprinted Without Change

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of DOD-STD-1768A will verify that page changes indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

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05 June 1989**

**SUPERSEDING
DoD-STD-1768 (USAF)
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DoD STANDARD

**PROCEDURES FOR DEVELOPMENT
OF
DEPOT TECHNICAL DATA**



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Supersedes cover page of
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**DOD-STD-1768A (USAF)
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**DEPARTMENT OF DEFENSE
WASHINGTON, D.C. 20301**

Procedures for Development of Depot Technical Data

DOD-STD-1768A (USAF)

1. This Department of Defense Standard is approved for use by the Space and Missile Systems Center (SMC), Air Force Material Command (AFMC), Department of the Air Force, 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 which may be of use in improving this document should be addressed to SMC/SDFC, P.O. Box 92960, Los Angeles AFS, Los Angeles, CA 90009-2960, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document, or by letter.

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1. SCOPE

1.1 Purpose. This standard defines the functions and procedures for the development of Depot Technical Data (control manuals, engineering data, and other technical orders) for use in depot level overhaul and repair of Aerospace Vehicle Equipment (AVE) and Support Equipment (SE). It requires the identification of all equipment items, to the lowest reparable unit, for which a depot level maintenance program is identified.

1.2 Application. This standard applies to agencies, commands, organizations, and contractors engaged in the development of equipment items which require depot level overhaul/repair.

1.3 Separate Directives. Separate directives or operating procedures may be utilized to expand or implement specific requirements of this standard. This standard also applies to procuring agencies in that all procurement requests shall clearly detail the intent of the Integrated Data Concept. Example: The contractor must specifically be asked to quote the cost of determining the requirements for DSE during development of FSE.

1.4 Precedence. No deviations from this standard will be allowed without approval from AFMC SMC/SDFC or the procuring activity. If any specific directives and operating procedures contain data in conflict with this standard, this standard shall take precedence.

2. REFERENCE DOCUMENTS

2.1 Government Documents.

2.1.1 Specifications and Standards. Unless otherwise specified, the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this Standard to the extent specified herein.

SPECIFICATIONS

MIL-M-38784 Manuals, Technical: General Style and Format Requirements

MIL-M-7298 Manual, Technical: Commercial Equipment

STANDARDS

MIL-STD-1574 System Safety Program for Space and Missile System

MIL-STD-1767 Procedures for Quality Assurance and Configuration Control
of ICBM Weapon System Technical Publications/Data

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2.1.2 Other Government Documents and Publications. The following other Government documents, drawings and publications form a part of this standard to the extent specified herein.

SAMSO STD 77-6	System Requirements Analysis Program for the M-X Weapon System
SAMSO STD 79-1	Integrated System Safety Program for M-X Program
AFMCR 66-17	Depot Maintenance Support Planning
AFR 127-12	Air Force Occupational Safety Fire Prevention and Health (AFOSH) Program
TO 00-5-1	Air Force Technical Order System
TO 00-5-2	Technical Order Distribution System
TO 00-5-3	Air Force Technical Manual Acquisition Procedures
TO 00-20-1	Preventive Maintenance Program, General Requirements and Procedures

2.2 Source of Documents.

a. Copies of military standards, specifications, and associated documents listed in the Department of Defense Index of Specifications and Standards are available from the Department of Defense Single Stock Point, Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120. Copies of industry association documents should be obtained from the sponsoring industry association. Copies of all other listed documents should be obtained from the contracting activity or as directed by the contracting officer.

b. Copies of the GPO Style Manual are available from the Superintendent of Documents, U.S. Government Printing Office, Washington DC 20402.

c. Copies of the DOD Thesaurus of Engineering and Scientific Terms and the DDC Retrieval and Indexing Terminology may be purchased from the National Technical Information Service, Springfield, VA 22161, or (for DOD activities and DOD contractors) from the Reference Services Branch, Defense Technical Information Center, Cameron Station, Alexandria, VA 22304-6145.

2.3 Order of Precedence. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.

3. DEFINITIONS. For purposes of this standard, the following definitions apply.

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3.1 Acronyms. The following acronyms are used in this document:

A&CO TA	Assembly and Checkout Technical Analysis
AECO	Advanced Engineering Change Order
AFMC	Air Force Material Command
AFOSH	Air Force Occupational Safety and Health
AFOTEC	Air Force Operational Test and Evaluation Center
ALC	Air Logistics Center
AVE	Aerospace Vehicle Equipment
CDRL	Contract Data Requirements List
CI	Configuration Item
DDSL	Depot Data Status List
DID	Data Item Description
DSE	Depot Support Equipment
DSIWG	Development/Support/Interface Working Group
DTDVC	Depot Technical Data Verification Completion Record
DTDVR	Depot Technical Data Verification Recommendation
ECP/ECN	Engineering Change Proposal/Engineering Change Notice
EO	Engineering Order
FSE	Factory Support Equipment
HCI	Hardness Critical Item
LSA	Logistics Support Analysis
LSAR	Logistics Support Analysis Record
MSE	Maintenance Support Equipment
MPL	Maintenance Parts List
OSE	Operational Support Equipment
SE	Support Equipment
SMC	Space and Missile Systems Center
SRA	System Requirements Analysis
TCTO	Time Compliance Technical Order
TO	Technical Order
TOMA	Technical Order Management Agency
TPA	Test Planning Analysis
TRC	Technology Repair Center

3.2 Technical Order (Control Manual). A technical order (TO) prepared in accordance with this standard and MIL-M-38784 and incorporating support data, by reference. A control manual identifies all depot overhaul and repair tasks recorded in a preferred sequence, support equipment (special tools and test equipment), consumables, a list of support data required to accomplish each task, and provides a means of determining the configuration of support data and equipment.

3.3 Technical Order (Control Manual) Outline. An outline is a method of organizing material and content of a control manual into a logical, sequential manner by section and paragraph breakdown prior to finalization into a written/printed document.

3.4 Depot Support Equipment (DSE). That class of equipment, excluding common hand tools, necessary to overhaul or repair and test contractor hardware to the

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lowest reparable unit. This includes commercial equipment, as well as equipment specifically designed or built to fulfill a particular depot overhaul or repair function.

3.5 Depot Technical Data. Documentation (control manuals, supplemental data, engineering data, other TOs, etc.) used by technicians during depot level maintenance on AVE and SE. The control manual shall identify the functions (i.e., repair, install, calibrate, etc.) to be performed on the AVE or SE and direct the technician to the appropriate data to perform the function.

3.6 Development/Support/Interface Working Group (DSIWG). A working group consisting of a representative from each agency responsible for technical data development established by the Technical Order Management Agency (TOMA) to plan, schedule and coordinate technical publications/data development and acquisition. The DSIWG shall establish operating procedures, develop and monitor technical publications program schedules, continuously monitor program events and requirements, and assure that technical publications/data are scheduled and available to support various program events.

3.7 In-Process Reviews. Defined in TO 00-5-3.

3.8 Overhaul. Defined in TO 00-20-1.

3.9 Prepublication Reviews. Defined in TO 00-5-3.

3.10 Repair. Defined in TO 00-20-1.

3.11 Source Data. Documentation developed by a contractor to support equipment items developed by that contractor. source data may stand alone or may be incorporated into other documentation when the hardware is integrated into, attached, or otherwise becomes a part of other equipment.

3.12 Support Data.

3.12.1 Engineering Data. That data delivered to the Air Force and prepared by a contractor to support hardware manufactured/developed and produced by the contractor. This data includes current engineering drawings, schematics, wiring diagrams and lists, logic diagrams, process specifications, test specifications, vendor developed drawings and procedures, acceptance procedures, etc. These data are in the form of existing data (developed to support other contractor requirements).

3.12.2 Technical Orders (Supplemental Data). Data prepared by a contractor when it has been determined there is no existing data, or existing data is determined to be inadequate (ref. 5.1.4.3). Such data contains a title page, list of effective pages, and a table of contents.

3.12.3 Commercial Manuals. Manuals applicable to equipment designed and manufactured to commercial specifications, rather than military specifications, and used to support military equipment, systems, and facilities. All newly

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identified commercial publications required Air Force approval before use in accordance with MIL-M-7298. All new commercial manuals should be reported to the TOMA by a CFE/CFAE notice submitted at the early stages of procurement from the vendor. Notices shall be prepared and submitted per MIL-N-7384.

3.12.4 Technical Order. Defined in TO 00-5-3.

3.13 Support Equipment (SE). Defined in TO 00-20-1.

3.14 Technical Order Management Agency (TOMA). Defined in TO 00-5-3.

3.15 Test Station. A facility at a Technology Repair Center (TRC) or other depot maintenance location specifically designed to test or calibrate a depot reparable.

3.16 Validation. Defined in TO 00-5-3.

3.17 Verification. Defined in TO 00-5-3.

4. GENERAL REQUIREMENTS

4.1 Integrated Data Concept. The contractor shall prepare documentation, as defined in 3.5, using an integrated data concept under which documentation required to support a function/task common to more than one application will be developed only one time. During the design of Factory Support Equipment (FSE) and software, the contractor shall determine requirements for DSE. Operation and maintenance data for FSE that is identified for transition to DSE shall be developed by the contractor to enable its use as depot technical data.

4.1.1 Use of Other TOs. Existing TOs common to organizational or intermediate and depot level tasks may be referenced with TOMA approval. If other TOs do not exist, the contractor shall develop depot technical data, as defined in 3.2 and 3.12, to provide the required support.

4.1.2 Exchange of Source Data. Contractors shall exchange source data (see 3.11) when one contractor's configuration item(s) (CI(s)) interfaces with or is integrated into a CI developed by another contractor. The contractor responsible for the integrated data shall identify to the contributing contractor (the contractor responsible for providing the source data) the specific type and format and required submittal dates of the data required for the integration. Exchange of source data shall be through technical interchange meetings or other mutually agreed means. Problems involving exchange of source data shall be identified to the TOMA for resolution.

4.2 Structuring. Technical order (control manuals) shall be structured and packaged to support the Air Force Material Command (AFMC) TRC concept as defined in AFMC 66-17. However, to the extent possible, the contractor shall assure flexibility in structuring to allow possible relocation of TRC responsibility assignment among Air Logistics Centers (ALCs), contractor depot maintenance, or other designated depot maintenance facilities in the event a reparable is

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transitioned. Structuring shall be reviewed and approved by the TOMA prior to or in conjunction with control manual outline approval.

4.2.1 Specialized Packaging. Technical orders (control manuals) shall be packaged by major reparables for Aerospace Vehicle Equipment, Maintenance Support Equipment, and Operational Support Equipment (AVE/MSE/OSE). Depot Support Equipment (DSE) control manuals shall be packaged by test station complex/tasks. Repair stations with minimal Support Equipment (SE) requirements may be packaged in a single control manual.

4.3 Documentation Development. The development of depot technical data is an iterative process, as illustrated in Figure 1. Interim products, as they evolve, shall be used by the contractor to further determine the detailed support documentation requirements.

4.3.1 Interim Products Development. Figure 1 illustrates the development, analysis, and evaluation of interim products required for determination of depot technical data requirements. The development process requires both independent and joint efforts of the TOMA, contractors, and other agencies. Most of the data required for development of the interim products is available directly from other contract requirements.

4.3.2 System Requirements Analysis (SRA) Documentation. The contractor shall use the functional flow diagrams, supporting Forms B, LSA Record (LSAR) data sheets, and interim products as a baseline for development of the depot technical data. Depot technical data is directly related to the SRA and LSA as described in 4.7.1 and 4.7.2.

4.4 Quality Assurance and Configuration Accountability. The contractor shall plan for a program for in-house quality assurance and configuration control of technical publications/data in accordance with the contractual requirements set by the procuring activity.

4.5 Safety. Each test, operating, or maintenance procedure (prepared by the contractor) including computer-controlled test sequences shall be reviewed by Space and Missile Systems Center/System Safety Division or a representative designated by the procuring agency (see 6.2).

4.5.1 Safety Critical Procedures. Test, operating, or maintenance procedures (prepared by the contractor) that involve or affect safety shall be designated as safety critical procedures. Safety critical procedures shall be approved by Space and Missile System Center/System Safety Division or a representative designated by the procuring activity (as outlined in MIL-STD-1574) during an in-process, verification, or prepublication review.

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Maintenance Parts Lists (MPLs) unless unusual problems might exist in the identification of parts, for procurement, through use of existing TOs or contractor documentation, and are specifically approved by the Air Force Material Command agency.

5.1.3.2 Requirements Conference(s). The TOMA shall schedule and conduct depot technical data requirements conferences for the purpose of reviewing candidate depot technical data recommended by the contractor. The contractor shall participate in requirements conferences and shall assist in resolution of all comments and objections arising during the conferences. During the conferences, the contractor shall offer for consideration the identification of existing data proposed for incorporation, by reference, into the technical orders (control manuals), and identification of proposed technical orders (supplemental data) to be developed under 5.1.4.3. Any number of conferences may be held until the TOMA is assured the required support data is adequately defined. After review of the candidate support documentation by the TOMA, the contractor shall be authorized to develop control manual outlines as required by 5.1.4.1.

5.1.4 Technical Order Preparation and Reviews.

5.1.4.1 Technical Order (Control Manual) Outline. Prepare control manual outlines, as defined in 3.3, prior to preparation of control manuals. The contractor shall prepare control manual outlines in accordance with Appendix A (see 6.2).

5.1.4.2 Technical Orders (Control Manual). After outline review by the TOMA, the contractor shall prepare control manual in accordance with Appendix A (see 6.2).

5.1.4.2.1 Support Data. During preparation of technical orders (control manuals), incorporate the applicable existing support data by reference into the control manual.

5.1.4.3 Technical Orders (Supplemental Data). Prepare supplemental data, as defined in 3.12.2, during preparation of control manuals, and incorporate that documentation by reference into the control manual. Such technical orders shall contain a title page, list of effective pages, and a table of contents in accordance with MIL-M-38784. The text of the data is to be prepared in contractor format and should include warnings, cautions and notes conforming to MIL-M-38784 (see 6.2).

5.1.4.4 Depot Technical Data Reviews. The TOMA shall maintain close liaison with the contractor during all phases of development. The TOMA will conduct in-process and prepublication reviews, in accordance with TO 00-5-3, to assure that final depot technical data provided to the user conforms to all established technical requirements.

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5.2 Validation/Verification of Depot Technical Data.

5.2.1 Validation. The contractor shall validate the control manuals, supplemental data and all referenced support documentation in accordance with TO 00-5-3. Validation shall be performed at the contractor's facility, or another designated facility where adequate reparables and SE are available. Use only qualified technicians in accordance with the tasks specified in the supporting data, the reparable item(s) to which the data applies, and the SE identified in the data. Observation by the Air Force is optional and the contractor shall be responsible for notification of validations scheduled to allow the TOMA or its designated representative to witness the validation. Nonsupport by such witnesses for scheduled validation shall not restrict contractor validation accomplishment.

5.2.1.1 Correction of Deficiencies. The contractor shall correct deficiencies identified during validation prior to beginning of verification.

5.2.1.2 Validation Certification. The contractor shall provide certification of validation, if requested by the TOMA, prior to verification (see 6.2).

5.2.2 Verification. Verification will be accomplished in accordance with TO 00-5-3 by depot technicians normally assigned to the appropriate AFMC repair areas to demonstrate that depot technical data, reparables, and SE are compatible.

5.2.2.1 Technical Order Verification Recommendation. The TOMA shall prepare a Depot Technical Data Verification Recommendation (DTDVR) list at the conclusion of validation. See Figure 3 for a sample DTDVR. A DTDVR is subject to concurrence/modification by the TOMA and/or AFMC.

5.2.2.2 Use of Draft Copies. Verification may be accomplished from draft copies if necessary to accommodate schedules, availability of reparables, SE, etc.

5.2.2.3 Verification Schedules. The contractor shall support verification activities scheduled by the TOMA and/or AFMC based on availability of required equipment, software, facilities, and qualified personnel. Schedules shall be coordinated with the contractor and affected agencies. The TOMA shall have prime responsibility for the verification.

5.2.2.4 Depot Technical Data Verification Completion Record. Verification results shall be documented on a Depot Technical Data Verification Completion Record (DTDVCR), as shown in Figure 2, by the verification team.

5.2.2.5 Correction of Deficiencies. The contractor shall correct deficiencies that are discovered during verification prior to approval of the verification by the TOMA and/or AFMC. If, during verification, existing support data is determined to be inadequate for depot use, the contractor shall prepare technical orders (supplemental data) in accordance with 5.1.4.3 (see 6.2).

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5.2.2.6 Verification Approval. Approval of the verification shall be in accordance with TO 00-5-3.

5.3 Configuration Control.

5.3.1 Development Period. The contractor shall maintain control manuals and supplemental data throughout the development period to assure adequate and accurate technical data when delivered.

5.3.2 Temporary and Hardware Changes. Temporary changes prepared by the depot and hardware changes that impact referenced engineering data and/or supplemental technical orders that occur between formal delivery and transfer of program management to AFMC shall be monitored by the contractor for inclusion as formal changes to the basic manuals.

5.3.3 Changes and Revisions. The contractor shall prepare changes and revisions as dictated by changes in equipment or procedures. Technical orders (control manuals) and technical orders (supplemental data), as prepared to this standard, shall be changed or revised in accordance with TO 00-5-3 (see 6.2).

5.4 Preparation for Delivery. Packaging, packing and marking for shipment of depot technical data shall be in accordance with MIL-M-38784.

6. NOTES

6.1 Intended Use. The purpose of this publication is to bring into conformity the preparation of military standards and handbooks, to ensure the inclusion of essential data and description for the selection and application of items and processes, and to aid in the use and analysis of DOD standardization document.

6.2 Data Requirements. When this standard is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirements 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 DoD FAR Supplement Part 27, Sub-Part 27.475-1 are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this standard is cited in the following paragraphs.

<u>Paragraph No.</u>	<u>Data Requirement Title</u>	<u>Applicable DID</u>
5.1, 5.2.2.5, 5.3.3	Depot Technical Order Control Manuals	DI-MISC-80843
5.1.4.1	Depot Technical Order Control Manual Outline	DI-MISC-80844

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4.5, 5.1.4.3, 5.1.3.1.1, 5.2.2.4, 5.2.2.5, 5.3.3	Technical Orders (Supplemental Data)	DI-MISC-80845
5.2.2.4	Validation Completion Report, Technical Manuals	DI-TMSS-80070

6.3 Subject Term (Key Work Listing). The following key words are to be used by the contractor in the preparation of control and supplemental manuals (as defined in this specification) without modification of their intent or meaning.

Aerospace Vehicle Equipment
Technical Orders (Control Manual)
Depot Support Equipment
Depot Technical Data
Logistics Support Analysis
Maintenance Technical Orders (Control Manuals)
Source Data
System Requirements Analysis
Technical Order
Technical Order Management Agency
Validation
Verification

6.4 Changes From Previous Issue. This notice identifies organizational changes, technical order reference update, and transfer of document ownership.

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the data matrix number, and the referenced document number. The procedural data of the referenced document shall be identified by paragraph, figure, or table. Unverified data shall be listed against specific TRC locations or against reparable item configurations. As verifications are completed, they will be deleted so that the "B" page will reflect the unverified data status of that control manual at any point in time.

50.1.4 TO/Equipment Configuration Status Record ("C" Page). The "C" page shall be in accordance with Figure 5. Identify each revision and change to the TO/Equipment configuration. Identify each approved Engineering Change Proposal (ECP)/Time Compliance Technical Order (TCTO) against equipment associated with each revision/change.

50.1.5 Table of Contents. The table of contents shall comply with MIL-M-38784.

50.1.6 Section I, Introduction. Identify each of the following paragraphs by title and include, in the subparagraphs thereof, a brief and concise explanation of each.

- a. Scope.
- b. Application. Include a NOTE, indicating to the using technician that all referenced engineering data (3.12.1) in the Depot Support Matrix (Section III) are to be requisitioned from AFMC Engineering Management Office in accordance with local procedures. Referenced technical orders (3.12.2) are to be requisitioned in accordance with TO 00-5-3.
- c. Composition and Use. Explain the composition and use of each section of the manual.
- d. Depot Reparables List. Identify depot reparables, to the highest reparable level, which are included in the manual. Subindented items need not be listed. Use official part/equipment numbers and nomenclature. If a CI number has been assigned, enter the number in parentheses directly below the part/equipment number. The Depot Reparables List shall be in tabular form as shown in Table I. List entries in alphanumerical order by part/equipment number.

Table I. Depot Reparables List

Part/Equipment Number	Part/Equipment Nomenclature	Page Number

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TECHNICAL ORDER/EQUIPMENT CONFIGURATION, STATUS RECORD		
ECPs AND TCTOs AFFECTING THIS TECHNICAL ORDER ARE LISTED BELOW		
ECP/TCTO NUMBER	INITIAL TOCN NUMBER	REMARKS
WS-XXX-A-MMA-B622 (TCTO XXX-LG118A-210)	6	Hybrid Explicit Multiplexer
WS-XXX-A-MMA-B623 (TCTO XXX-LG118A-216)	6	PBV/Stage III Jumper
WS-XXX-A-MMA-B507R1	9	Deletion of Plate Finish from Mod 5 Section
CCP-2120	17	Incorporate ILCS Modification
WS-XXX-A-MMA-1286 (TCTO XXX-LG118A-518)	21	Incorporate Thrust Termination Event to Diagnostic Data Package
WS-XXX-A-MMA-1840	22	Modify R/V for Combat Training Launch
WS-XXX-A-MMA-1296 (TCTO XXX-LG118A-1742)	25	Incorporate ERCS Battery Monitor

"C"

FIGURE 5. Example of "C" Page (Technical Order Versus Equipment Configuration Status Record)