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DETAIL SPECIFICATION
MANUALS, TECHNICAL: WORK UNIT CODE - PREPARATION OF

Comments, suggestions, or questions on this document should be addressed to AFLCMC/HIAM Technical Data Section, 4170 Hebble Creek Road, Bldg. 280, Door 15, Area A, Wright-Patterson AFB, OH 45433–5653 or emailed to SGMLsupport@us.af.mil. Since contact information can change, the currency of this address information should be verified using the ASSIST Online database at https://assist.dla.mil/.

AMSC 9449 **AREA TMSS**

This detail specification is approved for use by the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

1 SCOPE.

1.1 Scope. This specification prescribes the requirements for the development and preparation of Work Unit Code (WUC) manuals for Air Force equipment. This specification provides for electronic delivery of data through the use of the Document Type Definitions (DTD) listed in Appendix B.

1.2 Detail. The level of detail contained in this performance specification is necessary to comply with the requirements of the Joint Computer-aided Acquisition and Logistics Support (JCALS) system.

2 APPLICABLE DOCUMENTS.

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract (see 6.2).

DEPARTMENT OF DEFENSE STANDARDS

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

(Copies of these documents are available online at http://quicksearch.dla.mil/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

AIR FORCE TECHNICAL MANUALS

TO 00-5-3	AF Technical Order Life Cycle Management
TO 00-06-series	Work Unit Code manuals
TO 00-20-2	Maintenance Data Documentation

(Copies of these documents required by users with ".mil" government web address access are available online at https://www.my.af.mil/etims/ETIMS/index.jsp. Refer to helpdesk information if obtaining copies without a TO subscription account. Copies of documents required by contractors in connection with specific procurement functions should be obtained from the acquiring activity or as directed by the contracting officer.)

AIR FORCE INSTRUCTIONS

AFI 20-115	Propulsion Management For Aerial Vehicles
AFI 21-101	Aircraft And Equipment Maintenance Management
AFI 21-104	Selective Management Of Selected Gas Turbine Engines
AFI 33-110	Data Administration Program
AFI 99-101	Developmental Test And Evaluation

(Copies of these documents may be obtained online from the Air Force e-Publishing at http://www.e-publishing.af.mil/. Copies of documents required by contractors in connection with specific procurement functions should be obtained from the acquiring activity or as directed by the contracting officer.)

2.3 Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein (except for related specification sheets),

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

3 REQUIREMENTS.

3.1 Development and preparation. The general manner of development and preparation of WUC manuals shall be in accordance with the requirements of MIL-STD-38784, except as otherwise specified herein (see 6.8).

3.1.1 General criteria. The following applies throughout this specification.

3.1.1.1 Electronic presentation requirements. Electronic presentation requirements prescribed herein shall apply only to the development of linear data for electronic viewers. For development of Portable Document Format (PDF) data, print presentation requirements herein shall apply for formatting. Non-linear [(Interactive Electronic Technical Manual (IETM)] requirements are contained in a separate specification.

3.1.2 Format. The format of the manuals shall be in accordance with the requirements of MIL-STD-38784. Unless otherwise specified by the acquiring activity, chapters and sections shall be arranged as outlined herein (see 6.2b.).

3.1.3 Manual size. Print Presentation: Unless otherwise specified by the acquiring activity (see 6.2c.), preliminary manuals shall be 8 ½ by 11-inches (with the same printing area size as 5 by 8-inch manuals). Formal manuals shall be prepared in 5 by 8-inch size, except training and support equipment (SE) manuals which shall be prepared in 8 ½ by 11-inch size. The standard WUC manual shall always be 5 by 8-inch.

Electronic Presentation: The restrictions for page sizes are N/A.

3.1.4 Style of type. For WUC entries, each line entry with a zero as the fifth character of the WUC shall be in upper-case type. Each line entry with other than a zero as the fifth character of the WUC shall be in lower-case type, with the first letter of each word in upper-case type (see Figure 2). For support general codes, the title of each code shall be in upper-case type. Tasks within that code shall be in lower-case type, with the first letter of each word in upper-case type. Descriptive text shall follow normal sentence capitalization. For unique data codes for the maintenance cost system (MCS), the title of each code shall be in lower-case type, with the first letter of each word in uppercase type. Descriptive text shall follow normal sentence capitalization.

3.1.5 Column arrangement. There shall be a blank line between WUC upper-case line entries (see 3.1.4) and the preceding line entry (excluding support general codes).

Print Presentation: Unless otherwise specified by the acquiring activity, 5 by 8-inch manuals shall be single column and 8 ½ by 11-inch manuals shall be double column (see 6.2d.).

Electronic Presentation: manuals shall be produced in single column format.

3.1.6 Page numbering. Print Presentation: The table of contents, introduction, foreword, type maintenance, action taken, when discovered, and how malfunctioned codes pages shall be numbered with a roman numeral for each category (when discovered, how malfunctioned codes avionic/electrical/computer [alphabetic sequence], etc.) and the page sequence within that category (see Figure 3) (see 6.18). Pages containing WUCs shall be numbered in the lower outer corner of each page by the WUC system (or homogeneous group) number and consecutive page number (see 6.18). Pages containing System/Subsystem/Reference Designation Index (SSRDI) numbers shall be numbered in the lower outer corner of each page by the system/subsystem number and consecutive page numbers (see 6.18). Support General Codes 01000, 02000, 05000, 06000, 07000 and 09000 shall be listed on pages prefixed 01-. Codes 03XXX and 04XXX shall appear on pages prefixed 03- and 04-, respectively. Unique data codes for MCS, except support general codes, shall be listed after the support general codes portion of the manual, and shall be on the page numbered 05-001.

Electronic Presentation: The manual shall be divided and presented by WUC. The SSRDI and SSSN shall be marked on the TOC. There are no specific requirements for running footer info regarding a SSRDI and SSSN. If the capability exists, the SSRDI and SSSN shall be placed on the bottom left corner of the screen for the data which it applies.

3.1.7 Page entries. Print Presentation: When a change occurs in the system number, i.e., 20-, 21-, 22-, the listing for each system shall begin on a new right-hand page.

Electronic Presentation: The manual shall be divided and presented by WUC.

3.1.8 Standardization. When similar systems and components are used in two different series of the same mission design aircraft, such as the F-15 A/B and the F-15 C/D, the first three characters of the WUC shall be the same in both manuals. To the maximum extent practicable, the fourth and fifth characters of the WUC should also be the same.

3.1.9 Test program. Unless otherwise specified by the acquiring activity, when the contract contains a requirement for the collection of maintenance management type data during a test program (see 6.9), the WUC manual shall be completed prior to the start of the test program (see 6.2e.). The contractor shall be responsible for making any necessary changes to the manual resulting from the test program, including the addition of new end items.

3.2 Front matter. Front matter shall be prepared in accordance with the requirements of MIL-STD-38784, except as otherwise specified herein.

3.2.1 Title. If applicable, an effectivity date notice shall be included on the title in accordance with the requirements of MIL-STD-38784. All WUC manual changes, supplements, or revisions, that contain a change to a WUC from one nomenclature to another, shall contain an effectivity date notice on the title. The effectivity date provided by the acquiring activity shall be used (see 6.17).

3.2.2 List of effective pages. Print Presentation: A list of effective pages shall be prepared in accordance with the requirements of MIL-STD-38784.

Electronic Presentation: A list of effective changes shall be prepared in accordance with the requirements of MIL-STD-38784 and linked to the data in which they apply.

3.2.3 Table of contents. Depending on the concept under which the WUC manual is to be prepared (see 3.3), the table of contents shall list the code manual contents in the order shown in 3.3.1 or 3.3.2, in conjunction with the appropriate page reference. The WUC listing shall consist of the first two characters of the support general or equipment end item (except for homogeneously grouped items as noted below), and the title or narrative description of each code listed (see Figure 3). Homogeneously grouped items shall be listed under the homogeneous group title in alphabetic sequence by end item nomenclature, with the complete end item WUC contained in the code column of the table of contents.

Electronic Presentation: The TOC entries shall be linked to the data to which it applies.

3.2.4 Foreword or introduction. The foreword or introduction shall be as outlined in Figure 4.

3.2.4.1 Two-chapter manual. The following paragraph shall be included in the foreword for each WUC manual prepared in accordance with the two-chapter manual concept (see 3.3.1).

> "This manual has been prepared in two chapters; Chapter 1 contains Work Unit Code - Noun - System/Subsystem/Reference Designation Index listings for the weapon system, and support equipment peculiar to the weapon system. Chapter 2 contains System/Subsystem/Reference Designation Index - Noun - Work Unit Code listings for the weapon system, and support equipment peculiar to the weapon system."

3.2.4.2 Three-chapter manual. The following paragraph shall be included in the foreword for each WUC manual prepared in accordance with the three-chapter manual concept (see 3.3.2).

> "This manual has been prepared in three chapters; Chapter 1 contains Work Unit Code - Noun - System/Subsystem/Reference Designation Index listings for the weapon system equipment. Chapter 2 contains System/Subsystem/Reference Designation Index - Noun - Work Unit Code listings for the weapon system equipment. Chapter 3 contains Work Unit Code listings for support equipment peculiar to the weapon system."

3.2.4.3 Standard WUC manual. In the standard WUC manual, the introduction shall contain a brief description of the codes and their use. The standard WUC manual shall not contain chapters or sections.

3.2.5 Type maintenance, action taken, when discovered, and how malfunction codes. No changes or additions shall be made to these codes, without prior approval by the acquiring activity (see 6.4 and 6.10).

3.2.5.1 Type maintenance code. This list shall include only those codes that are applicable to the equipment covered by the WUC manual (see 6.4.1). The following note shall be included in all WUC manuals following the type maintenance codes:

NOTE: Refer to TO 00-06 series TOs for off-equipment and shop Type Maintenance codes.

3.2.5.2 Action taken code. The complete list of action taken codes shall be included in the manual (see 6.4.2).

3.2.5.3 When discovered code. Only the when discovered codes and definitions, for the equipment to which the WUC manual is applicable, shall be included in the manual (see 6.4.3).

3.2.5.4 How malfunction code (HMC). The HMC shall be listed in both alphabetic and numeric sequence, and shall contain only those codes that are applicable to the specific equipment contained in the WUC manual (see 6.4.4).

3.2.5.4.1 Alphabetic and numeric sequence. The alphabetic and numeric sequence shall be further divided into four categories: avionics/electrical/computer; physical/mechanical; engine related; and no defect.

3.2.5.4.2 Engine related HMCs. Engine related HMCs are restricted and shall be further divided into five categories: observed or recorded operational conditions; identified components; condition monitoring; chance occurrences; and managerial decision. These codes shall be used for engine related items (see 6.4.4.1).

3.2.5.4.3 Restricted uses of HMC. The following note shall immediately precede the alphabetical listing of HMC:

NOTE: Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 20-115 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is appropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tire shops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

3.2.6 Support general codes. (See 6.5).

3.2.7 Unique data codes for MCS. Print Presentation: These codes shall be included in the WUC manual following the last page of support general codes. For two-chapter and three-chapter manuals they shall be printed on one page and it shall be numbered 05-001 (see 6.6). The standard WUC manual shall have the unique data codes printed on one page, and it shall be numbered XII-001.

Electronic Presentation: The unique data codes shall be placed in their own data portion.

3.2.8 Work unit code. (See 6.7). Construction and application of WUCs shall be in accordance with Appendix A.

3.2.8.1 Used with but not part of. Work Unit Codes for these items shall be included (see 6.11).

3.2.9 Nomenclature. Each WUC in the equipment identification listing shall reflect the information required to properly identify all levels of assembly, and shall include the basic noun for each individual item that is coded. If an official military type nomenclature has been assigned, it shall be used for identification. Part numbers may be used to identify items, if no official nomenclature exists. The basic part number only shall be used, (i.e., 47A102212-XX rather than 47A102212-05). Abbreviations may be used when necessary, if approved by the acquiring activity (see 6.2f.).

3.2.10 Time change, configured article, serially controlled, and warranty tracked items.

3.2.10.1 Two-chapter and three-chapter WUC manual. Time change, time significant, configured article, serially controlled, and warranty tracked items shall be denoted by use of capital “T,” “C,” “S,” and “W,” respectively, in parentheses, inserted between the WUC and its definition (nomenclature) (i.e., 99ABC (T) Ignitor (time change); 99DEF (C) Stator (configured article); 99TUV (S) Housing (serially controlled); 99XYZ (W) Amplifier (warranty tracked)). These symbols may also be used in combinations, except “S” shall not be used with “C” or “W” (see 6.12). An explanation shall be provided in the manual foreword (see 2.1 of Figure 4).

3.2.10.2 Standard WUC manuals. In standard WUC manuals, time change and serially controlled items are instead identified by an asterisk (*) between the WUC and the code definition. Additionally, time change items are further identified by the abbreviation (TCI) following the definition.

3.2.11 End item identification. Each end item of SE shall be identified by an "@" (at) symbol between the WUC and its nomenclature (see 6.13).

3.2.12 Mobile Training Sets (MTS) and Resident Training Equipment (RTE). Items peculiar to the training equipment (not utilized in the operational equipment of the same type) shall be coded in the applicable operational equipment WUC manual. The abbreviation MTS or RTE, as applicable, shall be entered in parentheses following the code definition for these items. Codes for peculiar training equipment shall be restricted to items on which it is essential to collect maintenance data, such as, a motor to simulate actuation, or actuating devices necessary to simulate functions. Such items shall be coded following the applicable system codes for the operational equipment, with code spacing allowed to permit expansion of operational equipment codes. The following sentence shall be added to the end of paragraph 2.1 of the foreword when the preceding coding procedure is used:

> "The abbreviation (MTS or RTE, as applicable) identifies training equipment (Mobile Training Sets or Resident Training equipment) peculiar items included in this Work Unit Code manual for recording purposes."

3.2.13 Site effectivity identification. Effectivity symbols may be used for identification of equipment that is not applicable to all sites (squadron or wing) of a specific Mission Design Series (MDS) missile or space system. Numeric characters, in parentheses between the WUC and its nomenclature, shall be used for this purpose, and shall be as specified by the acquiring activity (see 6.2g.). When effectivity symbols are used in accordance with this paragraph, an appropriate reference explaining their use shall be included in the foreword.

3.2.14 System code/end item code page entries. Print Presentation: Each new system WUC, except support general codes, shall begin on a new right-hand page (i.e., following completion of code assignments for 11000, Code 12000 assignments shall begin on a right-hand page).

Electronic Presentation: Data shall be formatted as a scrolling table viewable by WUC.

3.2.15 New page entries. Print Presentation: When WUCs for a major system or lower level assembly are carried over to a new page, the first WUC entry shall be (1) the system code and title; (2) following that line entry shall be the WUC and title of the second level assembly (fourth character of the WUC) followed by "- Continued" (see Figure 2). If crowding will occur the "- Continued" may be placed on the following line (i.e., assuming that the last code of the preceding page is 11AAA Aileron Actuator:

11000	AIRFRAME	System
11AA0	OUTER PANEL - Continued	Second Level Assembly
11AAB	Aileron Follow-up Cable Guide	Third Level Assembly)

Electronic Presentation: Data shall be formatted as a scrolling table viewable by WUC.

3.2.15.1 Work unit code column heading. The first line entry at the top of each WUC column shall be the type of equipment to which the work unit codes apply. For example:

11000 - AIRFRAME
25000 - SOLID ROCKET
RA000 - GUIDED MISSILE TEST SET

3.2.16 Skin diagrams. Skin and access panel diagrams shall be provided for System 11 (Airframe), 14 (Flight Controls), and 23 (Nacelle skin portion). The WUCs developed and published shall provide data on the skin/access panels only; the structure beneath being reportable by other codes (see Figure 5).

3.2.16.1 Coded segments. The view of coded segments shall be clearly distinguishable as to location on the airframe. These illustrations shall contain the following (see Figure 5):

a. Specific area. A small plan view of the aircraft with the specific area of the illustration shaded in, or a portion of the area being identified large enough to permit area identification, shall be included. A worded description, such as outboard wing, shall also be included in each diagram.

b. Particular Area. The illustration shall show the particular area of the airframe structure as a background figure, with the skin and access panel diagrams shown as exploded parts.

3.2.16.2 Area site. Each access panel which is assigned a number (other than a part number) shall be coded individually (see Figure 5) (see 6.14).

3.3 Work unit code manual. The content and arrangement of the work unit code manuals shall be, either a two-chapter manual, three-chapter manual, or a standard manual, as specified by the acquiring activity (see 6.2h.). If required by the acquiring activity, SE shall be included (see 6.2h.).

3.3.1 Two-chapter work unit code manual. Use the tagged language tools in Appendix B, if electronic delivery of this manual is required (see 6.2i.). The two-chapter work unit code manual shall be arranged as follows:

a. Front matter.

b. Type maintenance codes.

c. Action taken codes.

d. When discovered codes.

e. How malfunctioned codes (alphabetic sequence).

f. How malfunctioned codes (numeric sequence).

g. Work unit codes - support general.

h. Chapter 1. Work unit code - noun - system/subsystem/ reference designation index (equipment and SE).

i. Chapter 2. System/subsystem/reference designation index - noun - work unit code (equipment and SE).

3.3.1.1 Chapter 1. The first chapter of the manual shall be developed to include WUC - Noun - S/S/RDI for the equipment. For a two-chapter manual, both the equipment and peculiar SE shall be listed (see 6.16).

3.3.1.2 Chapter 2. The second chapter of the manual shall be developed to include S/S/RDI - Noun - WUC for the equipment. For a two-chapter manual, both the equipment and peculiar SE shall be listed (see 6.16).

3.3.2 Three-chapter work unit code manual. Use the tagged language tools in Appendix B, if electronic delivery of this manual is required (see 6.2i.). The three-chapter work unit code manual shall be arranged as follows:

a. Front matter.

b. Type maintenance codes.

c. Action taken codes.

d. When discovered codes (munitions and SE codes, when applicable, shall be in separate lists).

e. How malfunctioned codes (alphabetic sequence).

f. How malfunctioned codes (numeric sequence).

g. Work unit codes - support general (equipment and SE codes shall be separate lists).

h. Chapter 1. Work unit code - noun - system/subsystem/ reference designation index (equipment only).

i. Chapter 2. System/subsystem/reference designation index - noun - work unit code (equipment only).

j. Chapter 3. Introduction (see Figure 6). Work unit codes - noun - equipment identification (SE only).

3.3.2.1 Chapter 1. The first chapter of the manual shall be developed to include WUC - Noun - S/S/RDI for the equipment. For a three-chapter manual, only the equipment shall be listed (see 6.16).

3.3.2.2 Chapter 2. The second chapter of the manual shall be developed to include S/S/RDI - Noun - WUC for the equipment. For a three-chapter manual, only the equipment shall be listed (see 6.16).

3.3.2.3 Chapter 3. The third chapter of the manual shall be developed to include WUC - Noun for peculiar SE (see 6.16).

3.3.3 Standard WUC manual. The standard WUC manual shall be arranged as follows. Appendix B provides the tagged language tools for the electronic delivery of this manual.

a. Table of contents.
b. Introduction.
c. Type maintenance codes.
d. Action taken codes.
e. When discovered codes.
f. How malfunctioned codes alphabetical listing - avionics/electronics/computer.
g. How malfunctioned codes alphabetical listing - physical/mechanical.
h. How malfunctioned codes listing - reason for removal - engine related.
i. How malfunctioned codes numerical listing - avionics/electronics/computer.
j. How malfunctioned codes numerical listing - physical/mechanical.
k. How malfunctioned codes numerical listing - reason for removal - engine related.
l. Support general codes (except 03000 and 04000).
m. 03000 Support general codes.
n. 04000 Support general codes.
o. Work unit code system.

4 VERIFICATION.

4.1 Verification Requirements. When the technical data produced according to this specification is offered for acceptance, all tests, reviews, and verifications required by the acquiring activity to determine that it conforms to the requirements in section 3 of the specification, shall be performed as specified in the solicitation or contract. The Air Force Technical Order Policy and Procedures (AF TOPP) team, AFMC/A4UE, provides the specific requirements for verification of technical data developed and delivered through this specification, as well as guidance for including these requirements in the solicitation or contract (see TO 00-5-3, AF Technical Order Life Cycle Management).

4.2 Compliance. Technical manuals (TMs) shall meet all requirements of section 3 of this specification and the appropriate DTD appendix, as required by the acquiring activity (see 6.2). The requirements set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any requirements in this specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies, submitted to the government for acceptance, comply with all requirements of the contract. Use of sampling inspections shall be at the discretion of the contractor, and in accordance with commercially acceptable quality assurance procedures. However, use of sampling in QA procedures does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to accept defective material.

5 PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2j.). When packaging of materiel is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system commands. Packaging data

retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6 NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. WUC manuals are used to identify all "work unit" (support general and equipment identification), "type maintenance," "action taken," "when discovered," and "how malfunctioned" codes that apply to the equipment covered by the manual. Under the Air Force data collection system, each maintenance action performed on Air Force equipment must be fully and accurately documented. The volume of data collected requires the use of Automatic Data Processing (ADP) techniques. The use of ADP equipment requires that the data input be coded in such a manner that it can be read by the data processing machines. Standard codes have been developed for recording the type of maintenance being performed, the action taken to correct a deficiency, when a deficiency was discovered, and the type of malfunction that occurred. Identification codes, called "work unit codes," are used to identify the specific assembly or part within an end item on which an action was performed.

6.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number, and date of this document.

b. If the arrangement of chapters and sections is to be other than as specified in this document (see 3.1.2).

c. If the size of the preliminary and formal manuals are to be other than as specified in this document (see 3.1.3).

d. If the column arrangement is to be other than as specified in this document (see 3.1.5).

e. If the work unit code manuals must be completed prior to the start of the test program (see 3.1.9).

f. If abbreviations may be used as specified in this document (see 3.2.9).

g. The numeric characters to be used in parentheses between the WUC and the nomenclature (see 3.2.13).

h. If a 2-chapter, 3-chapter, or standard work unit code manual is to be developed (see 3.3).

i. If electronic delivery of the work unit code manual is required (see 3.3.1 and 3.3.2).

j. Packaging requirements (see 5.1).

k. If system code manuals are to be prepared by individual series (see A.3.3.2).

l. If items installed in multiples, within a functional system/homogeneously grouped end item, and perform within the same function/application parameters, except for location, will have a single code assigned as specified in this document (see A.3.8.9).

6.3 Technical manuals. The requirement for technical manuals should be considered when this specification is applied on a contract. If technical manuals are required, specifications and standards that have been authorized and assigned an Acquisition Management Systems Control (AMSC) number must be listed on a separate Contract Data Requirements List (DD Form 1423), which is included as an exhibit to the contract. The technical manuals must be acquired under separate contract line item in the contract.

6.4 Codes. Type maintenance, action taken, when discovered, and how malfunction codes are assigned and controlled by AFI 33-110 (Air Force Data Administration Program). These codes must be approved by the acquiring activity (see 3.2.5).

6.4.1 Type maintenance code. This code consists of one alphabetic character, and identifies the type of work performed, (e.g., scheduled or unscheduled maintenance) (see 3.2.5.1).

6.4.2 Action taken code. This code consists of one alphabetic or numeric character, and identifies what work was done (e.g., removed, replaced, removed and reinstalled same part, etc.). The WUCs and the action taken code, collectively, identify a "unit of work" as defined in AFI 21-101 (Maintenance

Management of Aircraft) (example; Work Unit Code 23130, Igniter Assembly, Action Taken Code R - Remove and Replace) (see 3.2.5.2).

6.4.3 When discovered code. This code consists of one alphabetic or numeric character, and identifies when a defect was discovered, or when a maintenance requirement was discovered, (i.e., during a periodic inspection, in-flight, etc.) (see 3.2.5.3).

6.4.4 How malfunction code. This code consists of three numeric characters, and is used to identify how the equipment malfunctioned, (i.e., shorted, cracked, corroded, etc.). Codes applicable to reciprocating engines should not be listed in TO 21M-AGM38A-06-1 (see 3.2.5.4).

6.4.4.1 Alphabetic and numeric sequence. Engine related HMCs are restricted. Engine maintenance technicians are required to use codes from the engine related group for any items which are AFI 21-104 (Selective Management of Selected Gas Turbine Engines) reportable (see 3.2.5.4.1).

6.5 Support general codes. Support general codes are for recording production credit or repetitive tasks of a general nature (see 3.2.6 and A.3.2.1).

6.6 Unique data codes for MCS. Unique data codes for MCS are:

ALT00 Alert Duty. All man-hours expended while waiting for alert aerospace vehicles to takeoff or land, such as strategic, defense, tactical, standing by for crash alert, or for alert missile when no work is being accomplished. Not to be used for standby, awaiting work assignments, lag or other delays, or when direct productive effort is being expended.

CMP00 Compensatory Time for Overtime. All direct assigned man-hours excused from normal duty as a result of previously expended overtime man-hours.

DTL00 Detail, Squadron or Base Duties. Man-hours expended by direct labor personnel (labor code 100) performing on-base duties such as charge of quarters, policing, building maintenance, driver, dining hall, parade, commanders call, general military training, nontechnical training, etc.

LVE00 Leave. Man-hours excused from duty, pass or official, military, medical, or sick leave.

TRN00 Maintenance Training. Man-hours expended in on-the-job training, formal and informal maintenance technical training.

NOTE: These codes are to be used to account for man-hour expenditures of personnel with an assigned “direct” labor code when performing one of the above functions. Documentation guidance for AFTO Form 349 entries is contained in TO 00-20-2.

6.7 Work unit code. The WUC consists of five characters, and is used to identify the system, subsystem, or component on which maintenance is required, or was accomplished. WUCs will be reviewed and approved during in-process reviews (see 3.2.8). For construction and application of WUCs, see Appendix A.

6.8 Development and preparation. Work Unit, Type Maintenance, Action Taken, When Discovered, and How Malfunctioned Codes, and Support General WUCs will be in accordance with AFI 33-110 (Air Force Data Administration Program) (see 3.1).

6.9 Test Program. Collection of maintenance management type data during a test program (AFI 99-101, Developmental Test and Evaluation, or equivalent) will be in accordance with AFI 21-101 (Maintenance Management of Aircraft) (see 3.1.9).

6.10 Code changes or additions. Changes or additions to type maintenance, action taken, when discovered, and how malfunction codes will be in accordance with the requirements of AFI 33-110 (Air Force Data Administration Program) (see 3.2.5).

6.11 Used with, but not part of. An item which extends the use of equipment beyond its assigned functions, and is issued for use with that equipment only under special circumstances, is considered as used with, but not part of, that equipment (see 3.2.8.1).

6.12 Time change, configured article, serially controlled, and warranty tracked items. These items will be approved by the acquiring activity (see 3.2.10.1).

6.13 End item identification. End item identification is intended to aid the maintenance technicians in identifying what equipment should be entered in the "end item Work Unit Code" block of the maintenance forms (see 3.2.11).

6.14 Area site. In determining the area of skin panel size for individual coding, the rivet lines are normally used as a boundary. It is a matter of judgement to contain an area large enough to provide the ability to localize deficiencies (see 3.2.16.2).

6.15 Work unit code manual. Work unit code manual construction will vary depending on the concept dictated by the equipment to which it applies. SE that is commonly used in the Air Force is included in the TO 00-06-series Work Unit Code manuals. Clarification of equipment applicability will be provided by the applicable system manager through the acquiring activity (see 3.3).

6.16 Chapters 1, 2, and 3. These chapters provide information used by maintenance personnel to record maintenance tasks accomplished directly on the end item, components, or equipment undergoing repair, servicing, testing, calibration, or bench check in specialized shops (see 3.3.1.1, 3.3.1.2, 3.3.2.1, 3.3.2.2, and 3.3.2.3).

6.17 Effectivity date. The effectivity date will be a minimum of 30 days subsequent to the actual distribution date. All effectivity dates will be the first day of the month. The effectivity date will be established by the acquiring activity (see 3.2.1).

6.18 Page numbering. Print Presentation: The first page of the table of contents will be I-001, and the fifth page of the how malfunctioned codes engine related (alphabetical sequence) will be X-005. The first page of the support general codes will be 01-001, and the eleventh page of inertial guidance systems codes (air launched missile) will be 62-011. The first page of the engine turbine/turboprop/combustion section will be 72-30-01, and the sixth page of the landing gear/steering section will be 32-50-06 (see 3.1.6).

6.19 Acronyms. The acronyms used in this document are defined as follows:

ADM - Air Defense Missile.
AFI - Air Force Instruction.
AFSATCOM - Air Force Satellite Communications.
AGM - Air to Ground Missile.
AMAC - Aircraft Monitor and Control.
AWACS - Airborne Warning and Control System.
AWCS - Airborne Weapon Control System.
CAE - Computer Assisted Enrollment.
CE - Communication Electronic.
CIE - Controlled Interval Extension.
DODISS - Department of Defense Index of Specifications and Standards.
DTD - Document Type Definition.
EMUX - Electrical Multiplex.
HF - High Frequency.
HMC - How Malfunction Code.
IFF - Identification, Friend or Foe.
IR - Infrared Radiation.
JCALS - Joint Computer-aided Acquisition and Logistics Support.
LF/LCF - Low Frequency/Low Cycle Fatigue.
LLC/TCI - Limited Life Component/Technical Critical Item.
MCS - Maintenance Cost System.
MDS - Mission Design Series.

MTS	- Mobile Training Sets.
NOC	- Not Otherwise Coded.
NRTS	- Not Repairable This Station.
ORI	- Operational Ready Inspection.
OT/FOT	- Operational Test/ Follow-on Operational Test.
PCU	- Pressurization Control Unit.
PDM	- Programmed Depot Maintenance.
PMC	- Post Maintenance Check.
QA	- Quality Assurance.
RPIE	- Real Property Installed Equipment.
RTE	- Resident Training Equipment.
RV	- Recovery Vehicle.
SE	- Support Equipment.
SHF/EHF	- Super High Frequency/Extra High Frequency.
SIF	- Selectable Identification Feature.
SM	- System Manager.
SRAM	- Short Range Attack Missile.
S/S/RDI	- System/Subsystem/Reference Designation Index.
TCTO	- Time Compliance Technical Order.
T/R	- Transformer Rectifier.
UHF	- Ultra High Frequency.
VHF	- Very High Frequency.
VLF/LF	- Very Low Frequency/Low Frequency.
V/STOL	- Vertical or Short Takeoff and Landing.
WSEM	- Weapon System Evaluator Missile.
WUC	- Work Unit Code.

6.20 Definitions. To clarify the terms used throughout this specification, the following definitions are given:

6.20.1 Verification. Verification (section 4), in the context of this specification, equates to the contractor's quality assurance program for validating the content of the manuals. Suggested validation methods include:

a. Actual performance. Using production configured equipment, hands-on performance of the procedure using the technical instructions as written.

b. Simulation. Using production configured equipment and the manual, simulate the actions required by the task steps.

c. Table top analysis. Primarily for nonprocedural data, compare the technical content to source data to ensure the technical accuracy and depth of coverage.

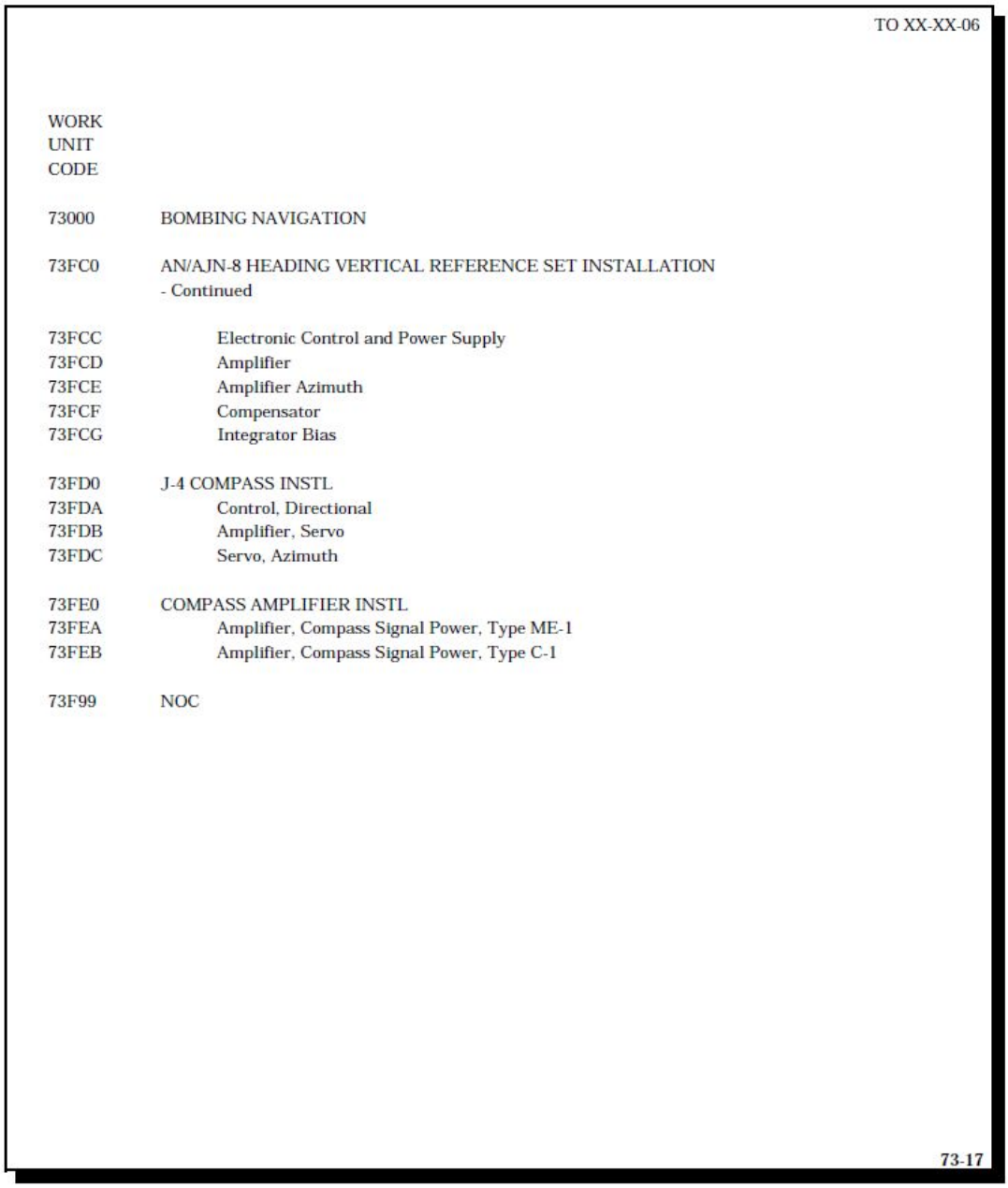
6.21 Subject Term (key word listing).

Type maintenance code
Action taken code
When discovered code
How malfunctioned code
Support general WUCs
Maintenance cost system

6.22 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

WORK UNIT CODE	
11000	**AIRFRAME (27-00-00) (28-00-00) (52-00-00) (53-00-00) - Continued**
11JAA	Ribs
11JAB	Spars
11JAC	Skins
11JAD	Hinges
11JAE	Fitting, Vertical Stab. Attach, LH
11JAF	Fitting, Vertical Stab. Attach, RH
	RUDDER FAIRINGS AND SEALS
11JBA	Fairing, Vertical Stab., Fwd Rudder Seal, LH Lower (4431)
11JBB	Fairing, Vertical Stab., Fwd Rudder Seal, RH Lower (4432)
11JBG	Fairing, Vertical Stab., Fwd Rudder Seal, LH No. 2 (4437)
11JBH	Fairing, Vertical Stab., Fwd Rudder Seal, RH No. 2 (4438)
11JBJ	Fairing, Vertical Stab., Fwd Rudder Seal, LH No. 3 (4439)
11JBK	Fairing, Vertical Stab., Fwd Rudder Seal, RH No. 3 (4440)
11JBL	Fairing, Vertical Stab., Fwd Rudder Seal, LH Upper (4441)
11JBM	Fairing, Vertical Stab., Fwd Rudder Seal, RH Upper (4442)
	LEADING EDGE INSTALLATIONS
11JCA	Leading Edge, Vertical Stab., Lower (4453)
11JCB	Leading Edge, Vertical Stab., Upper (4454)
11JCC	Cover, VHF Antenna Conn (4459)
	TIP INSTALLATION
11JDA	Cover, Tip Fairing, Aft LH (4455)
11JDB	Tip Assy, Vertical Stab. (4456)
11JDC	Cover, Tip Fairing, Fwd LH (4457)
11JDD	Cover, HF Antenna, FS 436 - 443 (4471)
11JEA	Skins (Composite), Vertical Stabilizer Box, Left
11JEB	Skins (Composite), Vertical Stabilizer Box, Right
11J99	NOC (See Introduction)
11L00	**WING ASSY, LEFT**
	STRUCTURAL COMPONENTS
11LA0	BOX, WING, LH
11LAA	Ribs
11LAB	Spar, Wing Box, Front
11LAC	Spar, Wing Box, Rear
11LAD	Skin, Upper
11LAE	Skin, Lower
11LAF	Fitting, Wing Attach, Upper
11LAG	Fitting, Wing Attach, Lower

FIGURE 1. Typical work unit code page.



WORK UNIT CODE	
73000	BOMBING NAVIGATION
73FC0	AN/AJN-8 HEADING VERTICAL REFERENCE SET INSTALLATION - Continued
73FCC	Electronic Control and Power Supply
73FCD	Amplifier
73FCE	Amplifier Azimuth
73FCF	Compensator
73FCG	Integrator Bias
73FD0	J-4 COMPASS INSTL
73FDA	Control, Directional
73FDB	Amplifier, Servo
73FDC	Servo, Azimuth
73FE0	COMPASS AMPLIFIER INSTL
73FEA	Amplifier, Compass Signal Power, Type ME-1
73FEB	Amplifier, Compass Signal Power, Type C-1
73F99	NOC

FIGURE 2. Typical work unit code page.

TABLE OF CONTENTS

FIGURE 3. Typical table of contents.

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TABLE OF CONTENTS (CONT.)

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FIGURE 3. Typical table of contents. - Continued.

FOREWORD

1. GENERAL.

The complete details on use of codes printed in this manual are prescribed in AFI 21-101 and TO 00-20-2-series Technical Orders.

2. USE OF CODES.

It is necessary to use codes for recording maintenance actions in order to convert this information into language for translation by accounting machines and computers. The maintenance forms are sent to data automation, and information recorded on them is used periodically to produce reports for use in the management of the maintenance function, such as determining deficient material, facilities, or procedures.

2.1 Work Unit Code. This code consists of five alphabetic and numeric characters and is used to identify the system, subsystem, and component which were worked on. For items Not Otherwise Coded, the abbreviation NOC is used. The number 99 is used in the fourth and fifth characters of the work unit code followed by the abbreviation NOC and should only be used when an item does not have a specific work unit code assigned. NOTE: Communication-Electronic (CE) use code "00NOC." An AFTO Form 22 may be submitted when a 99NOC code is used due to lack of a work unit code for a repairable item. Time change, time significant, configured article, serially controlled, and warranty tracked items require special documentation per the TO 00-20-series technical orders. These items are denoted by use of capital "T," "C," "S," and "W," respectively, in parentheses, inserted between the WUC and it's definition. For example: 99ABC (T) Ignitor (time change); 99DEF (C) Stator (configured article); 99TUV (S) Housing (serially controlled); 99XYZ (W) Amplifier (warranty tracked). This manual has been prepared in two chapters; Chapter 1 contains Work Unit Code - Noun - System/Subsystem/ Reference Designation Index listings for the weapon system, and support equipment peculiar to the weapon system. Chapter 2 contains System/Subsystem/Reference Designation Index - Noun - Work Unit Code listings for the weapon system, and support equipment peculiar to the weapon system.

2.2 DELETED.

2.3 Type Maintenance Code. This code consists of one alphabetic or numeric character, and identifies the type of maintenance being performed, (i.e., scheduled or unscheduled maintenance).

2.4 Action Taken Code. This code consists of one alphabetic or numeric character, and identifies what work was done, (i.e., removed, replaced).

NOTE

Collectively, the Work Unit Code and the
Action Taken Code identify a "unit of work"
as defined in AFI 21-101.

2.5 When Discovered Code. This code consists of one alphabetic or numeric character, and is used to describe at what time a discrepancy was discovered.

2.6 How Malfunctioned Code. This code consists of three numeric characters, and is used to describe the equipment malfunction.

FIGURE 4. Example of foreword.

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2.7 Standard Reporting Designator for 11N Work Unit Code Manuals Only. The standard reporting designator is a three-character code used to identify the type of equipment being reported on. The following codes are assigned to the equipment in this manual.

SRD	Equipment
YWW	MK-12 AVE (WUC REXXX, RPXXX, RRXXX)
GZC	Test Equipment (WUC TPXXX)
GY6	Handling Equipment (WUC JMXXX, JXXX)

3. SECURITY.

When maintenance is being performed on classified equipment, the listing of a Work Unit Code could possibly lead to a breach of security, such as betraying mission capability. Extreme caution should be exercised. If any question exists, it will be resolved according to AFI 31-401 and other applicable directives.

4. CHANGES TO CODES.

4.1 System Codes. The system codes in this manual are standard throughout the Air Force, and will only be revised by official publication. Recommended changes to this manual regarding its use, format, procedures, or the action taken, when discovered, how malfunctioned, or support general codes, will be submitted through command channels.

4.2 Changes. Recommended changes to work unit codes or equipment listings, in this manual, shall be submitted on an AFTO Form 22, in accordance with TO 00-5-1.

5. SUPPORT EQUIPMENT.

Support Equipment (SE), which is normally construed as an end item of SE, in accordance with the definition in Section VI of TO 00-20-1, is identified with an "@" (at) symbol between the work unit code and its definition. This is intended to be a guide for filling out maintenance source documents.

6. TRAINING DEVICES ONLY.

6.1 Training Devices. Due to the number of training devices of various types, separate manuals in the TO 43-1-06-series are prepared by groups as follows:

TO 43-1-06-2	Flight Simulators, Cockpit Procedure Trainers, Instrument Flying Trainers and Navigation Trainers
TO 43-1-06-3	Radio and Radar Training Equipment (Including fire control, bombing-navigation and electronic warfare).

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FIGURE 4. Example of foreword. - Continued.

TO 43-1-06-4	Missile Training Equipment
TO 43-1-06-5	Armament Trainers, Physiological Trainers, Miscellaneous Trainers and Classroom Aids

6.2 Training Equipment Installed on Aircraft. Training equipment which is installed on aircraft (target towing equipment, radar scorers) or connected into the missile system, and maintained by the using activity, will be coded in the applicable weapon system work unit code manual.

6.3 Obsolescent and Limited Quantity Training Equipment. Obsolescent and limited quantity training equipment is listed in a separate section in the back of each manual under Miscellaneous Trainer Codes. These codes will be used to code all training equipment not otherwise coded.

6.4 General Equipment Identification. The following general equipment identification codes are common to all training equipment, and shall be included as the last chapter in each training equipment work unit code manual. The work unit code ZY000 is not an authorized code, and shall not be used for documenting maintenance performed on Class I or III training equipment.

Class I and III Training Equipment

ZYA00	Class I Training Equipment Not Otherwise Coded.
ZY200	Class III Training Equipment Not Otherwise Coded.

7. COMMUNICATION ELECTRONIC (CE) ONLY.

(This paragraph will appear only in general type ground CE code manuals. The parentheses appearing in the first sentence will be replaced by the applicable system number.) Complete details on use of the codes contained in this manual are prescribed in AFI 21-101 and 00-20-2-series Technical Orders.

NOTE

This Work Unit Code manual should only be used for reporting maintenance actions on equipment which is a part of system (. . .). Complete details on use of the codes contained in this manual are prescribed in AFI 21-101 and 00-20-2-series Technical Orders.

FIGURE 4. Example of foreword. - Continued.

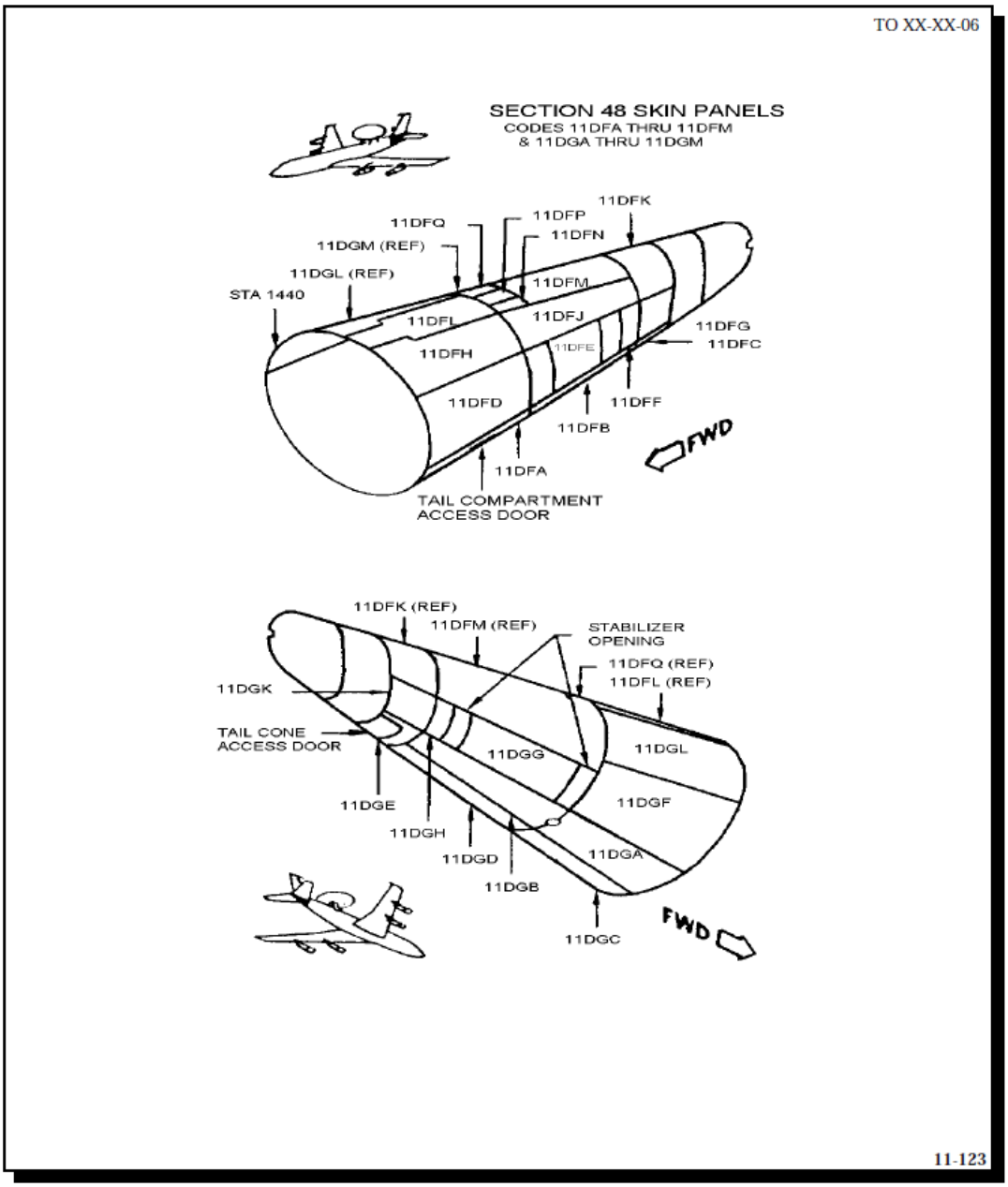
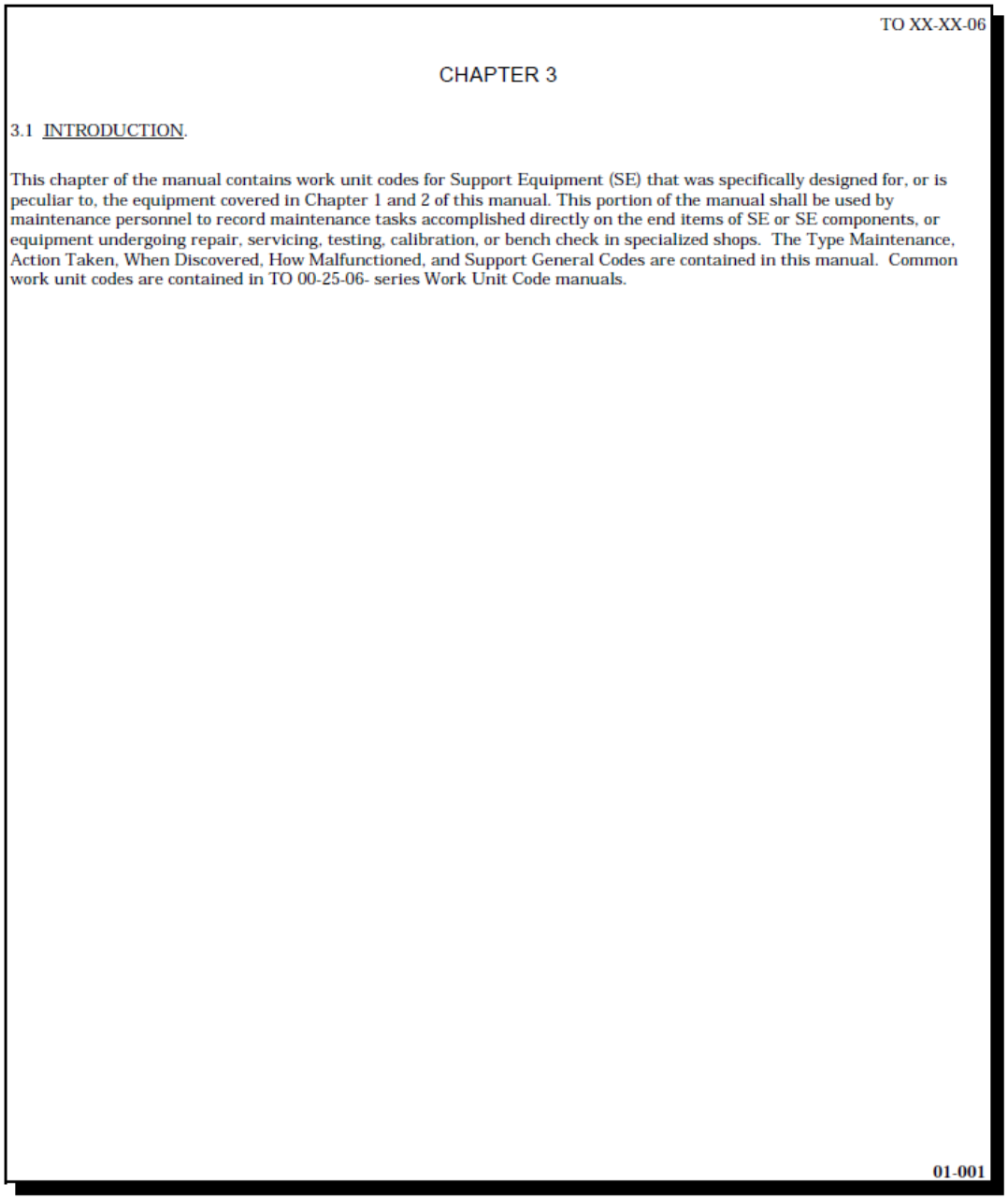


FIGURE 5. Example of skin diagram.



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CHAPTER 3

3.1 INTRODUCTION.

This chapter of the manual contains work unit codes for Support Equipment (SE) that was specifically designed for, or is peculiar to, the equipment covered in Chapter 1 and 2 of this manual. This portion of the manual shall be used by maintenance personnel to record maintenance tasks accomplished directly on the end items of SE or SE components, or equipment undergoing repair, servicing, testing, calibration, or bench check in specialized shops. The Type Maintenance, Action Taken, When Discovered, How Malfunctioned, and Support General Codes are contained in this manual. Common work unit codes are contained in TO 00-25-06- series Work Unit Code manuals.

01-001

FIGURE 6. Example of chapter 3 introduction.

APPENDIX A

WORK UNIT CODE CONSTRUCTION/APPLICATION

A.1 SCOPE.

A.1.1 Scope. The Work Unit Code consists of five characters, and is used to identify the system, subsystem, and component on which maintenance is required, or on which maintenance was accomplished. This appendix provides instructions for construction and application of WUCs. This appendix is a mandatory part of the specification. The information contained herein is intended for compliance.

A.2 APPLICABLE DOCUMENTS.

A.2.1 Government documents. The following document forms a part of this appendix to the extent specified herein.

Technical Order

TO 2J-1-24 Equipment Comprising a Complete Basic Gas Turbine Engine

A.3 WORK UNIT CODE APPLICATION AND CONSTRUCTION

A.3.1 Application of work unit codes. The primary purpose of WUCs is to identify the hardware on which work has been accomplished, and the relationship of hardware within a major assembly, subassembly, etc. Work unit codes will not be assigned to locations, general terms, or homogeneous group titles. For instance, station numbers, geographic locations, and terms such as mechanical components or miscellaneous equipment may be used as a title to aid in locating WUCs within the code manual, but these titles will not have WUCs assigned. Work unit codes will not be assigned to common hardware or soft goods, such as nuts, bolts, washers, clamps, seals, packing, and O-rings. Work on these type items is normally reported against the coded assembly on which the item is attached.

A.3.2 Work unit code - equipment identification. This is a five position code which identifies the end item, major assembly, subassembly, or component that requires maintenance. The first two positions of the WUC will be assigned in accordance with Tables I through VII, and controlled by the acquiring activity, to identify the end item of equipment. The third and fourth characters include major assemblies and subassemblies, and identify first and second levels of assembly. The fifth position of the WUC includes reparable/recoverable components, and identifies the lowest level of assembly below the end items.

A.3.2.1 Support general codes. Support general codes are for recording production credit of repetitive tasks of a general nature, and are not used for recording malfunctions, repair, Not Repairable This Station (NRTS), or condemnation actions. The multitude of tasks, which must be accomplished, precludes listing them all in the support general tables (Table VIII and IX) provided. This is not intended to restrict documentation of tasks. All support general work must be identified to the most appropriate code. Support general code tasks, not applicable to the equipment being coded, will not be included in the manual.

A.3.2.2 Scheduled and special inspections. Support general codes, for scheduled and special inspections, will be selected from Tables X through XVIII, as applicable. Use of the assigned codes without change is mandatory. Changes and additions must be approved by HQ AFMC/SCXR prior to including them in the manual. Scheduled and special inspection codes, not applicable to the equipment being coded, will not be included in the manual.

A.3.3 Functional system concept. The functional system concept will be used for equipment breakout. A functional system will consist of those units which make up a system without regard to whether the units are hydraulic, electrical, pneumatic, electronic, or mechanical in nature. The components which comprise a functional system will be those components which contribute to the actual function or activation of the system. For example, the components which supply the hydraulic or pneumatic source of power will be included under System 14, “Flight Controls” which is a functional system. As another example, flight reference instruments, free air temperature, and similar instruments will be included in System 51, “Instruments,”; whereas position indicators, temperature or pressure sensing, and autopilot instruments will be included under the system that they function with, such as System 52, “Autopilot.” The only exception to this rule is System 97, which will include all explosive devices regardless of the system with which they are associated.

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A.3.3.1 Munitions work unit code breakout. Munition items of a complex nature, and support equipment (SE) peculiar to nuclear munitions, will be coded as individual end items utilizing major assembly, subassembly/mod number, and component breakout. All other munitions, components, etc., will be homogeneously grouped and coded as major assemblies of a specific group.

A.3.3.2 Mission, design, and series (MDS). Work unit code manuals will be prepared to cover each basic mission and design aircraft, missile, or spacecraft. System code manuals will be prepared by individual series, if specified by the acquiring activity (see 6.2k.). This will require that the AFMC Air Logistics Complexes Single Manager (SM) ensure that a standard reporting designator is assigned for that specific mission, design, and series in TO 00-20-2.

A.3.3.3 Trainer application. Class trainers, mobile training sets, and resident training equipment will not be coded in the training equipment WUC manuals. Class III training equipment does not require detailed WUCs; one code is presently assigned for recording production credit on Class III trainers. The criteria for establishing WUCs for Class I training equipment is as follows: There must be five or more trainers in the inventory, or five or more trainers programmed for the inventory within the next fiscal year, from time of determination. They will be of sufficient cost or complexity to warrant detailed data analysis. This determination will not be predicated on cost alone.

A.3.4 Level of detail for each functional system. The WUCs for each functional system/homogeneous group will cover each reparable item in the functional system/homogeneous group, as specified by the applicable source document (see A.3.5). Work unit codes will also be assigned to nonrepairable components, if they are known or suspected to be vital to successful system operation, or to be significant maintenance hour consumers. These items will have a WUC assigned in order to report those critical “on-equipment” actions for reliability and maintainability evaluation purposes. In some cases it may be necessary to arbitrarily assign “interface” type items of equipment (i.e., interface connectors, tubing, couplings, wire, etc.) to a functional system. These decisions will be made after primary consideration is given to the maintenance responsibilities and training of the technicians who are required to maintain the interface items of equipment. For example, if a piece of tubing, with a regulator attached, makes the interface between the pneumatic and engine systems, and the engine technician is responsible for adjustments and maintenance of the regulator, then the tubing and associated regulator will be assigned to the engine functional subsystem.

A.3.5 Source data. Systems engineering data (i.e., engineering analysis data, equipment maintenance analysis data, and contract end item detail specifications) will be used as source data for WUC assignment. Maximum correlation between the component content of a contract end item and the assignment and grouping of WUCs is desirable. When available concurrently with the WUC manual preparation, illustrated parts breakdown technical manuals will be used as source data in determining level of assembly.

A.3.6 Reserving codes for future use. The capability to ensure that new codes can be assigned for future modifications or additions of equipment will be designed into each code manual in the third, fourth, and fifth positions of the WUC. If expansion capability is designed into the original codes, new equipment can be added without disturbing the original codes. Minimum code changes are essential to prevent loss of identity for previously complied maintenance data.

A.3.7 Reuse of codes. When existing WUCs are deleted from a manual, they will not be reassigned for a minimum of ninety days following their deletion, nor without prior approval of the acquiring activity. If there is no other code, or code sequence, that can be used, WUCs may be reassigned by the acquiring activity without waiting ninety days.

A.3.8 Work unit code construction.

A.3.8.1 Alphabetic and numeric codes. Upper-case letters A through Z (excluding I and O) and numbers 0 through 9 will be utilized for WUC assignments as specified in subsequent paragraphs. The letters I and O will not be used in any WUC to prevent confusion with the numbers one and zero.

A.3.8.2 End item code construction. The first two characters of the WUC are alphabetic or numeric, and identify the end item of equipment. These characters are assigned by Tables I thru VII, and controlled by the acquiring activity. No deviations are authorized without prior approval by the acquiring activity.

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A.3.8.3 First level of assembly code construction. Alphabetic and numeric characters will be used as the third character of the WUC to designate first level of assembly below major system. Thirty three (33) separate levels may be identified in this manner. For example:

33000	- SYSTEM
33A00 through 33Z00	- FIRST LEVEL OF ASSEMBLY
33100 through 33900	- FIRST LEVEL OF ASSEMBLY

A.3.8.4 Second level assembly code construction. Alphabetic and numeric characters will be used as the fourth character of the WUC to designate second level of assembly below major system. Thirty-three separate levels may be identified in this manner. For example:

33000	- SYSTEM
33A00	- FIRST LEVEL OF ASSEMBLY
33AA0 through 33AZ0	- SECOND LEVEL OF ASSEMBLY
then	
33A10 through 33A90	- SECOND LEVEL OF ASSEMBLY

A.3.8.5 Third level assembly code construction. Alphabetic and numeric characters will be used as the fifth character of the WUC to designate third or lowest level of assembly below the major system. Thirty-two levels may be identified in this manner. The number “99" is used in the fourth and fifth positions to indicate Not Otherwise Coded (NOC). For example:

33000	- SYSTEM
33A00	- FIRST LEVEL OF ASSEMBLY
33AA0	- SECOND LEVEL OF ASSEMBLY
33AAA through 33AAZ	- THIRD OR LOWEST LEVEL OF ASSEMBLY
then	
33AA1 through 33AA8	- THIRD OR LOWEST LEVEL OF ASSEMBLY
33A99	- NOC (FIRST LEVEL OF ASSEMBLY)

A.3.8.5.1 Use of “99 - not otherwise coded”. The number “99" is used in the fourth and fifth characters of the WUC, followed by “NOC.” This code is used to provide a WUC for components that do not have specific codes assigned. NOC codes will relate to the first level of assembly, when the first level of assembly is the third character of the WUC. When the third character is the end item (homogeneous group), the NOC code will relate to the end item rather than the first level of assembly. The “99 NOC” code will appear as the last entry under the last component in the first level of assembly (or end item for homogeneous groups) breakout. There will be a spaced separation between the last component of the first level of assembly/end item and the NOC code to provide easy recognition of the NOC code. The number “99" will not be used in the fourth and fifth positions of the WUC to identify any specific type of equipment.

A.3.8.6 Numerics. Numerics may be assigned first in the third, fourth, and fifth positions of the WUC, when there is positive assurance that the numeric coding capacity will not be exceeded during initial code assignment, or by future equipment additions or modifications.

APPENDIX A

A.3.8.7 Coding capability. The construction of WUCs provides a capability to designate thirty-three first level assemblies (for other than homogeneously grouped items), and thirty-two, third or lowest level assemblies. If equipment breakout exceeds these capabilities, it will be necessary to continue the listing with the next available code (note the change in the fourth character of the WUC). For example:

33AA0	- DUAL PUMPING UNIT
33AA8	- Controller
33ABA	- Controller Modulator
33A99	- NOC

A.3.8.8 Homogeneously grouped code construction. Exception to the above WUC construction will be taken when utilizing homogeneous grouping for peculiar SE. The first two characters will identify the homogeneous group, the third character will identify the end item, the fourth character will identify the first level of assembly, and the fifth character will identify the lowest level of assembly. For example:

CA000	- HOMOGENOUS GROUP
CAA00	- END ITEM
CAAA0	- FIRST LEVEL OF ASSEMBLY
CAAAA through CAAA8	- LOWEST LEVEL OF ASSEMBLY
CAA99	- NOC (END ITEM)

A.3.8.9 Multiple items serving a single system/homogeneously grouped end item. Identical components, within a system/end item performing peculiar functions, will have individual WUC assignments for each peculiar function/application. For example, a Pressurization Control Unit (PCU) in a system may contain four identical controllers, but each controller has a different usage (pressure setting) in the PCU. In this case, each controller will have a unique WUC assigned. Unless otherwise specified by the acquiring activity, items installed in multiples, within a functional system/homogeneously grouped end item, that perform within the same function/application parameters except for location, will have a single code assigned (see 6.2l.). For instance, only one code will be assigned for items having left and right application, even though they have different part numbers. The acquiring activity may grant exceptions to this requirement, for items that have high failure rates, or warrant detailed reporting for analysis purposes. If exceptions are granted, the nomenclatures of the items will reflect part number references to distinguish between the like items. This will be done on an exception basis, and will not be a common practice.

A.3.8.10 Item serving multiple systems/homogeneous grouped end items. When a single component functionally services two or more major systems/end items or lower levels of assembly, only one WUC will appear in only one of the system/homogeneous grouped end item listings. However, the item will be listed (by identical nomenclature only) in the remaining applicable system(s)/homogeneously grouped end item(s) with a reference to the previously assigned work unit code, e.g., “Manifold Sequence Valve (Reference 33FAA).” The WUC column for such items will be left blank.

TABLE I. Systems codes (aircraft)

11	AIRFRAME
12	COCKPIT AND FUSELAGE
13	LANDING GEAR
14	FLIGHT CONTROL
15	HELICOPTER ROTOR SYSTEM
16	ESCAPE CAPSULE
17	AERIAL RECOVER SYSTEM

APPENDIX A

TABLE I. Systems codes (aircraft) - Continued

18	VERTICAL OR SHORT TAKEOFF AND LANDING (V/STOL) POWER AND CONTROL TRANSMISSION SYSTEM
19	ENGINE STARTING
21	RECIPROCATING POWER PLANT
22000	TURBOPROP/TURBOSHAFT PROPULSION SYSTEM
23000	TURBOJET/TURBOFAN PROPULSION SYSTEM
(Those basic engine components as defined in TO 2J-1-24, Equipment Comprising a Complete Basic Gas Turbine Engine)	
NOTE: Constant Speed Drives will be coded to System 42, Electrical Power Supply	
24	AUXILIARY POWER PLANT
25	ROCKET POWER PLANT
26	HELICOPTER ROTARY WING DRIVE SYSTEM
27	TURBO JET/TURBO FAN PROPULSION SYSTEM ACCESSORY GEAR BOX (B-1 only)
31	ELECTRIC PROPELLER
32	HYDRAULIC PROPELLER
33	ELECTRO HYDRAULIC PROPELLER
34	MECHANICAL AND FIXED PITCH PROPELLERS
39	ICE AND RAIN PROTECTION
41	AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL
42	ELECTRICAL POWER SUPPLY
43	ELECTRICAL MULTIPLEX (EMUX)
44	LIGHTING SYSTEM
45	HYDRAULIC AND PNEUMATIC POWER SUPPLY
46	FUEL SYSTEM
47	OXYGEN SYSTEM
48	INDICATING/RECORDING
49	MISCELLANEOUS UTILITIES
51	INSTRUMENTS
52	AUTOPILOT
53	DRONE AIRBORNE LAUNCH AND GUIDANCE SYSTEMS
54	TELEMETRY
55	MALFUNCTION ANALYSIS AND RECORDING EQUIPMENT
56	AUTOMATIC ALL WEATHER LANDING SYSTEM
57	INTEGRATED GUIDANCE AND FLIGHT CONTROL (Includes auto pilot when part of integrated system)
59	CREW COMMUNICATIONS (Use if ground communications is desired, i.e., VHF, UHF, etc.)
60	VERY LOW FREQUENCY/LOW FREQUENCY (VLF/LF) COMMUNICATIONS

APPENDIX A

TABLE I. Systems codes (aircraft) - Continued

61	HIGH FREQUENCY (HF) COMMUNICATIONS
62	VERY HIGH FREQUENCY (VHF) COMMUNICATIONS
63	ULTRA HIGH FREQUENCY (UHF) COMMUNICATIONS
64	INTERPHONE
65	IDENTIFICATION, FRIEND OR FOE (IFF)
66	EMERGENCY COMMUNICATIONS
67	SUPER HIGH FREQUENCY/EXTRA HIGH FREQUENCY (SHF/EHF)
68	AIR FORCE SATELLITE COMMUNICATIONS (AFSATCOM)
69	MISCELLANEOUS COMMUNICATIONS EQUIPMENT
70	NUCLEAR DETECTION
71	RADIO NAVIGATION
72	RADAR NAVIGATION
73	BOMBING NAVIGATION
74	FIRE CONTROL
75	WEAPON DELIVERY
76	ELECTRONIC COUNTERMEASURE (ECM)
77	PHOTOGRAPHIC/RECONNAISSANCE
81	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)
82	COMPUTER AND DATA DISPLAY (GRAPHIC)
89	AIRBORNE BATTLEFIELD COMMAND CONTROL CENTER (CAPSULE)
91	EMERGENCY EQUIPMENT
92	TOW TARGET EQUIPMENT
93	DRAG CHUTE EQUIPMENT
94	METEOROLOGICAL EQUIPMENT
95	SMOKE GENERATOR, SCORING AND TARGET AREA AUGMENTATION SYSTEMS, AND AIRBORNE CO-OPERATIONAL EQUIPMENT
96	PERSONNEL AND MISCELLANEOUS EQUIPMENT
97	EXPLOSIVE DEVICES AND COMPONENTS
98	ATMOSPHERIC RESEARCH EQUIPMENT
99	R & D

TABLE II. System codes (missile), air launch

MISSILE BASIC	
11	AIRFRAME
13	WING AND FINFOLD
19	PYLON
PROPULSION	

APPENDIX A

TABLE II. System codes (missile), air launch - Continued

23	GAS TURBINE ENGINE
24	LIQUID ROCKET
25	SOLID ROCKET
MISSILE SUPPORT SYSTEMS	
31	AIR CONDITIONING (including Atmospheric and Environmental Control)
32	PRESSURIZATION (When Separate from Air Conditioning)
33	HYDRAULIC PNEUMATIC POWER SUPPLY AND DISTRIBUTION
34	ELECTRIC POWER SUPPLY AND DISTRIBUTION
35	ELECTRICAL DISTRIBUTION (Wiring Harness)
36	COMPONENT COOLING
37	GAS DRIVEN TURBINE (Mark 4 Power Plant)
39	MISCELLANEOUS
ARMAMENT AND EXPLOSIVE DEVICES	
41	WARHEAD
43	DESTRUCT
44	ARMING AND FUSING
45	SEPARATION
47	FLARES
FLIGHT CONTROLS	
52	FLIGHT CONTROLS
55	AUTO PILOT
56	FLIGHT REFERENCE
GUIDANCE	
61	COMMAND
62	INERTIAL
63	INTEGRATED GUIDANCE AND FLIGHT CONTROLS
64	T.V. GUIDANCE
65	TARGET SEEKING, INFRARED RADIATION (IR)
67	TRACKING (RADAR)
PROPELLANT	
73	AIR BREATHING ENGINE FUEL
75	CHEMICAL
COMMUNICATIONS AND DATA HANDLING	
91	TELEMETRY
92	BOMB DAMAGE ASSESSMENT
93	INSTRUMENTATION

APPENDIX A

TABLE II. System codes (missile), air launch - Continued

95	AIRBORNE COOPERATIONAL EQUIPMENT
96	DATA RECORDING AND RETRIEVAL
97	SIMULATION
98	RECONNAISSANCE

TABLE III. System codes - support equipment

AA THRU AZ	AIRCRAFT SUPPORT EQUIPMENT (AGE), not covered under other prefixes
BA THRU BZ	LAUNCHER
CA THRU CZ	SERVICING EQUIPMENT
DA THRU DZ	COMBINED SERVICING AND HANDLING EQUIPMENT
EA THRU EZ	*
FA THRU FZ	HANDLING EQUIPMENT
HA THRU HZ	ENVIRONMENTAL CONTROL
JA THRU JZ	ELECTRICAL GENERATION AND DISTRIBUTION
KA THRU KZ	PROPELLANT LOADING AND STORAGE
LA THRU LZ	*
MA THRU MZ	GUIDANCE AND INSTRUMENTATION
NA THRU NZ	LAUNCH CONTROL
PA THRU PZ	*
QA THRU QZ	COMMUNICATIONS
RA THRU RZ	MISSILE TEST EQUIPMENT
SA THRU SZ	SYSTEMS TEST EQUIPMENT
TA THRU TZ	TRAINING AND EQUIPMENT
UA THRU UZ	CHECKOUT EQUIPMENT
VA THRU VZ	*
WA THRU WM	WEAPON SYSTEM EVALUATOR MISSILE (WSEM)
WN THRU WZ	MISSION SIMULATOR
XA THRU XZ	*
YA THRU YZ	*
ZA THRU ZZ	MISCELLANEOUS
* These codes are unassigned. Their utilization will require prior approval of the acquiring activity.	

TABLE IV. System codes (missile or spacecraft), ground launched

11	AIRFRAME/BOOSTER STRUCTURE
12	ALL-UP-ROUND
13	WING AND FINFOLD
14	*

APPENDIX A

TABLE IV. System codes (missile or spacecraft), ground launched - Continued

15	*
16	ORBITAL CRAFT STRUCTURE
17	SPACE FERRY AND/OR MANNED RE-ENTRY VEHICLE STRUCTURE
18	*
19	*
PROPULSION	
21	*
22	*
23	TURBO JET
24	LIQUID ROCKET
25	SOLID ROCKET
26	ORBITAL MANEUVERING ENGINE
27	*
28	RETRO ROCKET (Excludes Primary Propulsion when used in Retro Fire Mode)
29	*
MISSILE OR SPACECRAFT ENVIRONMENTAL CONTROL AND LIFE SUPPORT SYSTEMS	
31	AIR CONDITIONING (Including Atmospheric and Environmental Control)
32	PRESSURIZATION (When separate from Air Conditioning)
33	HYDRAULIC/PNEUMATIC POWER SUPPLY AND DISTRIBUTION
34	ELECTRICAL POWER SUPPLY AND DISTRIBUTION
35	ELECTRICAL DISTRIBUTION
36	*
37	SUBSISTENCE/WASTE
38	SPACE SUIT, LIFE SUPPORT AND PERSONAL MANEUVERING EQUIPMENT
39	MISCELLANEOUS
40	*
41	ARMAMENT AND EXPLOSIVE DEVICES
42	INITIATORS
43	DESTRUCT RANGE SAFE AND ARMING
45	STAGE SEPARATION
FLIGHT CONTROL	
51	ORBITAL ATTITUDE MANEUVERING
52	FLIGHT CONTROL
53	*
54	*
55	AUTO PILOT

APPENDIX A

TABLE IV. System codes (missile or spacecraft), ground launched - Continued

56	FLIGHT REFERENCE
57	COMBINED CONTROLS
58	DECELERATION AND SURFACE RECOVERY (Excludes Retro-Rocket)
58	*
GUIDANCE	
61	COMMAND
62	INERTIAL
63	INTEGRATED GUIDANCE AND FLIGHT CONTROLS
64	NAVIGATOR/CELESTIAL
65	TARGET SEEKING
66	TRACKING
67	RENDEZVOUS RADAR
68	*
69	*
71	LIQUID ROCKET FUEL
72	LIQUID ROCKET OXIDIZER AND HYPERGOLIC
73	AIR BREATHING ENGINE FUEL
74	FUEL AND OXIDIZER PRESSURIZATION SYSTEMS
75	CHEMICAL
76	NUCLEAR MATERIALS
77	*
78	*
79	*
MISSILE RE-ENTRY SYSTEM	
81	RE-ENTRY VEHICLE (Including Warhead, Arming and Fuzing)
82	RE-ENTRY SYSTEM (Including Penetration Aids)
83	*
84	*
85	*
86	*
87	*
88	*
89	*
COMMUNICATION AND DATA HANDLING	
91	TELEMETRY
92	TRACKING AND RANGE INSTRUMENTATION
93	INTERCOM

APPENDIX A

TABLE IV. System codes (missile or spacecraft), ground launched - Continued

94	COMMUNICATIONS
95	*
96	DATA RECORDING AND RETRIEVAL
97	*
98	RECONNAISSANCE
99	*
* These codes are unassigned. Their utilization will require prior approval of the acquiring activity.	

TABLE V. System codes, support equipment/real property installed equipment (SE/RPIE)

AA THRU AZ	*
BA THRU BZ	LAUNCHER AND LAUNCH FACILITY
CA THRU CZ	SERVICING EQUIPMENT
DA THRU DZ	COMBINED SERVICING AND HANDLING EQUIPMENT
EA THRU EZ	COMBINED SERVICING AND DECONTAMINATION EQUIPMENT
FA THRU FZ	HANDLING EQUIPMENT
GA THRU GZ	GAS GENERATING EQUIPMENT
HA THRU HZ	ENVIRONMENTAL CONTROL
JA THRU JZ	ELECTRICAL GENERATION AND DISTRIBUTION
KA THRU KZ	PROPELLANT LOADING AND STORAGE
MA THRU MZ	GUIDANCE, TRACKING NETWORK AND INSTRUMENTATION
NA THRU NZ	LAUNCH CONTROL AND LAUNCH CONTROL FACILITIES
PA	SHELTER COMMUNICATIONS AND SHELTER ELEMENT
PB THRU PZ	*
QA THRU QZ	COMMUNICATIONS
RA THRU RQ	MISSILE/SPACECRAFT TEST EQUIPMENT
SA THRU SZ	SYSTEMS TEST EQUIPMENT
TA THRU TZ	TRAINING EQUIPMENT
UA THRU UZ	CHECKOUT EQUIPMENT
VA THRU VZ	*
WA THRU WM	WEAPON SYSTEM EVALUATOR MISSILE (WSEM)
WN THRU WZ	MISSION SIMULATOR
XA THRU XZ	RPIE
YA THRU YZ	RPIE
ZA THRU ZL	MISCELLANEOUS
ZM THRU ZZ	*
* These codes are unassigned. Their utilization will require prior approval of the procuring activity.	

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TABLE VI. Systems codes - munitions

SAMPLE HOMOGENEOUS GROUPING IDENTIFICATION CODES	
AA	AMMUNITION
AAA	SHOT GUN
AAAAO	12 GAUGE
AAABO	410 GAUGE
AAB	CARBINE, RIFLE AND MACHINE GUN
AABAO	CAL .22
AABBO	5.56MM
AABCO	CAL .30 CARBINE
AABDO	CAL .30 RIFLE AND MACHINE GUN
AABEO	7.62MM RIFLE AND MACHINE GUN
AAC	PISTOL AND REVOLVER
AACAO	CAL .38
AACBO	CAL .45
AAD	MACHINE GUN
AADAO	CAL .50
AAE	CANNON
AAEAO	20MM
AAEBO	40MM
AAECO	90MM
AAF	MORTAR
AAFAO	60MM
AAFBO	81MM
BA	BOMBS
BAA	GENERAL PURPOSE
BAAAO	250 POUND, MK81, MOD 1

TABLE VII. System codes, communication electronic (CE)

STANDARD RADAR SYSTEM CODES (Not Applicable to Navigational Radar)	
AA	ANTENNA SYSTEM
AE	CONTROL SYSTEM
AF	TEST CONTROL SYSTEM
AG	INDICATOR SYSTEM
AK	TRANSMITTER SYSTEM
AP	RECEIVER SYSTEM
AQ	DATA HANDLING SYSTEM
AT	ECCM SYSTEM

APPENDIX A

TABLE VII. System codes, communication electronic (CE) - Continued

AU	TIMING SYSTEM
AV	RF SYSTEM
AX	TOWER SYSTEM
BA	COMMUNICATIONS AND INTER-COMMUNICATIONS
BC	IFF SYSTEM
BE	OPTICS SYSTEM
BF	MAPPING SYSTEM
BH	SUPPORT EQUIPMENT
BK	PERFORMANCE MONITOR
BM	TELEVISION SYSTEM
BW	MISCELLANEOUS SYSTEM
BY	MULTIPLEXER SYSTEM
STANDARD COMPUTER SYSTEM CODES	
CA	CENTRAL PROCESSING SYSTEM
CF	INPUT/OUTPUT CONTROL SYSTEM
CL	INPUT/OUTPUT SYSTEM
CQ	AUXILIARY STORAGE SYSTEM
CT	POWER CONTROL AND DISTRIBUTION SYSTEM
CW	DISPLAY/PROJECTION SYSTEM
DA	TEST/MONITOR AND ALARM SYSTEM
DE	AUXILIARY DEVICES SYSTEM
DJ	INTERFACE SYSTEMS
DM	SUPPORT EQUIPMENT
EA THRU EZ	SITES AND SHELTERS
FA THRU FE	IMAGERY INTELLIGENCE SYSTEMS (IMINT)
FF THRU FK	SIGNALS INTELLIGENCE SYSTEMS (SIGINT)
FL THRU FQ	MULTIPLE INTELLIGENCE SYSTEMS (MULTI-INT)
FR THRU FV	COMMUNICATIONS SEGMENT (COMMS)
FW THRU FZ	NON-BASELINE SYSTEMS
GA THRU GZ	WORKSTATIONS
HA THRU HZ	EQUIPMENT RACKS
JA THRU JM	TRI-BAND FIELD TERMINAL
JN THRU JZ	TRI-BAND MEDIUM EARTH TERMINAL
KA THRU KM	MODULAR INTEROPERABLE SURFACE TERMINAL
LA THRU LK	SERVERS
LL THRU LQ	RAIDS

APPENDIX A

TABLE VII. System codes, communication electronic (CE) - Continued

LR THRU LZ	DESKTOP COMPUTERS
MA THRU ME	LAPTOPS
MF THRU MK	PRINTERS
ML THRU MQK	EXTERNAL COMPUTER DEVICES (DRIVES, MICE, KVM, CARD READERS, KEYBOARD)
MR THRU MV	ROUTER/SWITCH/HUB
MW THRU MZ	MONITORS
NA THRU NB	PATCH PANELS
NC THRU NE	FIBER OPTIC DEVICES/MEDIA CONVERTERS
FN THR NG	MULTIPLEXERS
NH THRU NK	VTC SYSTEMS/WALL SCREENS
NL THRU NN	VIDEO SYSTEMS
NP THRU NQ	AUDIO SYSTEMS
NR THRU NS	TIMING SYSTEMS
NT THRU NU	SENSOR/TAP
NV THRU NW	POWER SYSTEMS (UPS, PDU, GENERATOR)
NX	TELEPHONE
NY THRU NZ	CABLE
PA THRU PC	ENVIRONMENTAL CONTROL UNIT (ECU)
PD THRU PF	ANTENNA SYSTEMS
PG THRU PJ	TRANSMITTERS
PK THRU PM	RECEIVERS ASSIGNED BY CPSG CRYPTO
QA THRU QZ	SOFTWARE

TABLE VIII. Support general codes (except CE)

01000	GROUND HANDLING, SERVICING AND RELATED TASKS
	Ground Handling (includes positioning, moving to a new position, or moving crashed or disabled equipment)
	Loading and Unloading Engines/Cargo in Aircraft
	Parking and Pre-Taxi (includes temporary parking, permanent parking, fireguard, SE operations, installation and removal of chocks, pins, locks, or covers)
	Engine Runup
	Drag Chute - Delivery, Installation, and Recovery
	Mooring (tiedown, blade stoppage, installation of covers, etc.)
	Flying - Flight Mechanics Performing Crew Duty
	Launch Support Team Duty
	Escort or Monitoring Visitors/Contractors
	Monitoring Charging of Low Frequency/Low Cycle Fatigue (LF/LCF) Storage Batteries

APPENDIX A

TABLE VIII. Support general codes (except CE) - Continued

	Site Penetration/Back-Out
	Dispatch Preparation (pre/post)
	Water or Water/Alcohol Injection Fluid
	Hydraulic Oil
	Miscellaneous Servicing (includes anti-icing fluid, nitrogen, refrigerant, water, etc.)
	RELATED TASKS
	Armament (includes handling, routine cleaning, loading and unloading of guns and arms)
	ATO/RATO Racks (servicing, loading, and unloading)
	Bomb-practice, conventional, incendiary, and special stores; (includes servicing, loading and unloading of bombs, racks, dispensers, and associated equipment)
	Rockets and Missiles Loading, Unloading and Servicing (includes dummy, checkout or test missiles, racks, launchers, etc.)
	Tow Target/Tow Reel, etc
	Radio and Radar Receiver/Transmitter Frequency Changes, and Installation or Removal of Crystals
	Ballast (loading and unloading)
	Identification Friend or Foe/Selectable Identification Feature (IFF/SIF) Receiver/Transmitter Conversions or Codings
	Passenger/Cargo Reconfiguration (includes installation and ramps, and auxiliary flooring)
	Communications and Electronics Equipment Reconfiguration to Meet Mission Requirements (do not use for Time Compliance Technical Order (TCTO) accomplishment).
	Tape Installation and Removal
	Tape Development, Reproduction and Analysis
	Electronic Countermeasures (ECM), Chaff or Equipment Loading and Unloading
	Photographic - Equipment or Film Changes (loadings, or unloading, and film development and analysis)
	Electronic Spares (replacement)
	SE Positioning, Pickup and Delivery
	780 Equipment Pickup/Delivery (includes pickup/delivery of canopy covers, drag chutes, batteries, etc., to and from maintenance shops)
	Survival Equipment (loading and unloading)
	Pod, Pylon and External Tank Handling (includes installation and removal)
	Refueling Boom (includes installation and removal)
02000	EQUIPMENT CLEANING
	Washing, Decontamination, Snow, Frost and Ice Removal, Vacuuming, Wiping, Polishing, Cleaning and Treating of Equipment to Prevent Corrosion (do not use this code for treating corroded parts or accessories)
05000	PRESERVATION, DEPRESERVATION, AND STORAGE OF EQUIPMENT
06000	WEAPON AND GROUND SAFETY

APPENDIX A

TABLE VIII. Support general codes (except CE) - Continued

	Arming and Disarming of Guns, Rockets, Explosive Squibs, Seats, Canopies, External Tanks/Pods/Pylon Ejectors, Armament Bay Doors, Missile Launchers, Wing and Fuselage Center Line Racks, Bomb Bay Release Mechanisms/Controls, etc. Also includes Connecting and Disconnecting Aircraft Batteries
07000	PREPARATION AND MAINTENANCE OF RECORDS
	This code Will be Used by Maintenance Personnel to Record Only the Direct Labor Expended in Preparation/Maintenance of Status and Historical Forms (this excludes initiation and completion of production documentation forms)
09000	SHOP SUPPORT GENERAL CODES
	Fabricating (includes bending, cutting, forming, casting, holding, machining, soldering, assembly, local manufacture, etc., not done as part of a fix on a specific job)
	Stenciling/Painting (includes stenciling, lettering, installing decals, instrument range marking, etc., and painting for cosmetic purposes only). Do Not Use This Code For Treating Corrosion or Painting of Parts/Assemblies/Equipment For Corrosion Prevention/Control
	Engine/or Power Pack Buildup or Teardown
	Engine Operation - Test Stand (includes installation of engines in test stand)
	Wheel and Tire Buildup or Teardown
	Cleaning/Servicing (includes recharging, sandblast, degreasing, preparation for, and/or removal from storage or shipment, etc.)
	Reclamation (includes demilitarization, disassembly, preparation for resale, and disposal of aerospace and nonaeronautical equipment)
	Processing of Small Arms and Ammunition
	Inspection/Repack of Parachutes (all types)
	Inspection/Repack of Flotation Equipment
	Inspection of Personal Equipment (includes helmets, specialized flight suits, etc.)
	Fabric Testing
	Plating (includes cleaning and preparation for plating)
	Testing and Servicing Fire Extinguishers

TABLE IX. Support general codes (CE)

01000	GROUND HANDLING, SERVICING AND RELATED TASKS
	Ground Handling.
	Equipment Moving or Repositioning
	Installation/Relocation of Equipment
	Removal of Equipment
	Mission Equipment Operation or Support When Not Associated With Scheduled or Unscheduled Maintenance
	Servicing and Related tasks.
	Scheduled Power Changeover

APPENDIX A

TABLE IX. Support general codes (CE) - Continued

	Troubleshooting End Items or Facilities (use only for end items or facilities that do not have a WUC assigned)
	Unscheduled Power Changeover
	Power Production Service and Checkout
	Environmental Control
	Rehabilitation of Antenna Systems
	Unscheduled Antenna System Service
	Clearing of Antenna/Transmission Right-of-Way
	Installation of New Antenna System
	Receiver or Transmitter Frequency Changes
	Tape Development, Reproduction and Analysis
	Telephone Number Change
	Rehabilitation of Equipment
02000	EQUIPMENT AND FACILITY CLEANING
	Washing or Degreasing
	Cleaning and Treating Equipment to Prevent Corrosion
	Ground Snow, Frost and Ice removal
	Cleaning Antenna Systems, Mobile Facilities, and Fixed Facilities
	Decontamination
05000	PRESERVATION, DEPRESERVATION, AND STORAGE OF CE EQUIPMENT
06000	GROUND SAFETY
07000	PREPARATION AND MAINTENANCE OF RECORDS
	This Code Will be Used to Record Only the Direct Labor Expended in Preparation/Maintenance of Status and Historical Forms (this excludes initiation and completion of production documentation forms).
09000	SHOP SUPPORT GENERAL CODE
	Fabricate (Includes fabrication or local manufacture of miscellaneous items).
	Stenciling/Painting (includes stenciling, lettering, installing decals, instrument range marking, etc., and painting for cosmetic purposes only). Do Not Use This Code For Treating Corrosion or Painting of Parts/Assemblies/Equipment For Corrosion Prevention/Control.
	Testing and Servicing Fire Extinguishers
	Reclamation

TABLE X. Aircraft support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
Code	Description
03100	Preflight Inspection
03101	End of Runway Check

APPENDIX A

TABLE X. Aircraft support general codes - Continued

03109	Daily Walk Around Inspection on Alert Aircraft
03110	Daily/Special Inspection (H-34 Only)
03200	Basic Postflight/Thruflight Inspection, as applicable
03209	Alert Exercise Postflight
03210	Basic Postflight/End of Day Inspection
03215	Combined Preflight/Postflight Inspection
03220	7-Day Calendar Inspection
03221	14-Day Calendar Inspection
03300	Hourly Postflight Inspection
03400	Periodic Inspection/Phase Inspection, Basic Phase
03600	Look Phase of Programmed Depot Maintenance (PDM)
ISOCHRONAL INSPECTION CONCEPT	
03710	Major Inspection
03720	Minor Inspection
03730	Home Station Check
SPECIAL INSPECTIONS	
0411A	Climatization (includes preparation for arctic, desert, or tropical operation)
0411B	Nondestructive Inspection Accomplished Separately From Scheduled Inspection
0411C	Hydraulic System Contamination Check
0411D	Oil Sampling for Spectrometric Analysis
0411E	Rough Field Mission Check
0411H	Fuel Components Contamination Check
0411J	Operationally Ready Inspection (ORI)
0411K	Ground Inspection
04111	Special Modification Inspection
04112	Acceptance Inspection
04113	After Fire Inspection
04114	Excessive “G” Load Inspection
04115	Functional Taxi Check
04116	Aircraft Accident/Incident Check
04117	Battery Capacity/Specific Gravity Check
04118	Compass Swing Check
04119	Oil/Fuel Tank Sumps Drained Inspection
0412A	Seat/Ejection Seat or Emergency Egress System Check
0412B	Auxiliary Power Plant Inspection
0412C	Integrated Electronics System Check

APPENDIX A

TABLE X. Aircraft support general codes - Continued

0412D	Armament 25 Hour Inspection
0412E	Severe Turbulence Inspection
0412F	Calibration of Airborne Weapon System (AWCS)
0412G	Weapon Suspension System Inspection
0412H	Remote Compass Check
0412J	Aft Fuselage Section Inspection
0412L	Missile Simulated Launch Check
0412M	MA1 45 Day Inspection
0412N	MA1 90 Day Inspection
04121	Hard Landing Inspection
04122	Landing Gear Retraction Check
04123	Wheel/Brake Inspection
04124	Pitot-Static Purge/Check
04125	Oxygen System Components Check
04126	Missile Pylon/Launcher Simulator Check
04127	Missile Under the Wing/Integrated Systems Check
04128	Fire Control and AWCS System Checks
04129	Bombing-Navigation-Communications System Checks
0413A	Propeller Oil Control Assy and Dome Flushing Check
0413B	Engine Hot Section Inspection
0413C	Engine Air Inlet Inspection
0413E	Cylinder Borescope Inspection/Engine Compressor
	Borescope Inspection
0413F	Engine Valve Decarbonization Inspection
0413H	Retorque of Propeller Components Following Engine or Propeller Change
0413J	Exhaust Gas Temperature (Jet Cal) Calibration
0413K	Engine Ramp System Functional Check
0413L	By Pass Bellmouth Functional Check
0413M	Bleed Air System Pressure Loss Test Check
0413N	Engine Oil Screen Inspection/Oil Strainer Inspection
0413P	Engine Stall/Flameout Check
04131	Engine or Cylinder Change Inspection (includes pre-oil)
04132	Hot Start or Overspeeding Inspection
04133	Valve Check
04134	Compression Check
04135	Propeller Shaft Due Check

APPENDIX A

TABLE X. Aircraft support general codes - Continued

04136	Engine or Ignition Analyzer Check
04137	Engine Conditioning (scheduled)
04138	Minor Engine Conditioning (unscheduled)
04139	Engine Trim Check
04140	Cabin Pressurization/Leak Test
04141	Corrosion Control Inspections Accomplished Separately from Scheduled Inspections
04142	Engine Bay Inspection - Engine Removed
04143	Air Conditioning System Check
04144	Post Maintenance Check (PMC) of Fuel Gages
04145	Transformer Rectifier (T/R) Unit Capacitor Check for Electrolyte/Corrosion
04147	Penetration Aids Confidence/Self Test
04149	Integral Weight and Balance Check (C-130)
0415A	Datscal
0415B	ALE-20 System Check Prior to Flare Loading (B-52)
0415C	AWM-13 Stray Voltage Check
04150	Weight and Balance (includes weighing)
04151	Emergency Equipment (includes life raft, first aid kits, emergency radio, etc.)
04152	Inspection of Seat Belts and all Harnesses
04160	Rotor Overspeed Inspection
04161	Powertrain Over Torque Inspection (helicopters)
04162	Vibration Analysis (helicopters)
04163	Transmission Interval (oil filter inspection, helicopters)
04170	Equipment Inventory
04180	Checks Requiring Special Checkout Equipment
0418A	Air Data Computer and Associated Pitot and Static Instruments Leak Check
0418B	Overheat and Fire Warning System Inspection
0418C	Refueling Boom-Probe-Drogue-Special Inspection
0418D	SRAM System Interface Check (B-52)
0418E	SRAM CAE Checkout (B-52)
0418F	Aero 27 900 Hour Inspection
04181	Airborne WSEM Rail Check
04182	Harmonization of Sights, Guns and Cameras (Fire Control, Bomb-Nav, and Photo Systems
04183	ADM-20C Bomber Checkout
04184	Partial AGM-28 Combined Systems Checkout
04185	Squib Continuity and Corrosion Check
04186	Inspection of Guns and Feeder Mechanisms

APPENDIX A

TABLE X. Aircraft support general codes - Continued

04187	Quantity Indicating System(s) Calibration
04188	Flight Director Group Operational Check
04189	Maximum Effort Stop/High Energy Braking Inspection
04190	Sudden Stoppage Inspection
04199	Special Inspection, Not Otherwise Coded
04210	Functional Check Flight
04221	Corrosion Inspection Phase I (KC-135 and B-52)
04222	Corrosion Inspection Phase II (KC-135 and B-52)
04223	AMAC and Release Test (W10) (FB-111)
04224	AMAC and Release Test (W13) (FB-111)
04224	Ejector Rack Release Test (W8) (FB-111)
04226	Conventional Bomb Release Test (W9) (FB-111)
04227	Controlled Interval Extension (CIE) Inspection Accomplished Separately From Scheduled Inspections
04228	MAU 12 Bomb Ejector Rack Inspections
04229	MAU 140 Missile Ejector rack Inspections (FB 111 B/A only)
04510	Refurbishment Inspection (C-5A and C-141 Only)
04610	Nondestructive Testing (All Types)
04620	Analysis of Oil Samples
04630	Research and Development of New or Revised Nondestructive Inspection Techniques

TABLE XI. Air launched missile support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
Code	Description
03100	Preflight/Daily Inspection
03110	Preflight
03120	Daily
03200	Postflight/Down Load Inspection
03210	Postflight
03220	Down Load
03300	Storage Inspection (Live)
03310	7 Day
03320	30 Day
03330	90 Day
03340	180 Day
03350	270 Day

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TABLE XI. Air launched missile support general codes - Continued

03360	360 Day/Annual
03400	Storage Inspection (Dead)
03410	7 Day
03420	30 Day
03500	Periodic Inspection
03510	30 Day
03520	60 Day
03530	90 Day
03550	180 Day
03570	270 Day
03590	360 Day
03595	540 Day
03596	720 Day/2 Year
03597	900 Day
SPECIAL INSPECTIONS	
04100	Missile and Pylon
04110	Hard Landing
0411D	Oil Sampling for Spectrometric Analysis
04120	Calendar
04130	Modification
04140	Excessive G Loading
04141	Corrosion Control
04150	Transfer
04160	Non-Tactical Instrumentation
04170	Cold Weather
04180	Combined Systems Checkout
04270	Partial Combined Systems Checkout
04280	Checks Requiring Special Checkout Equipment
04310	Receiving Inspection
04311	Uncrating
04313	Stray Voltage Check
04314	Blown Fuse/Squib or Parameter Activated
04315	Purging
04316	Assembly
04317	Disassembly
04320	Hangfire

APPENDIX A

TABLE XI. Air launched missile support general codes - Continued

04321	Misfire
04322	30 Day on Aircraft
04323	10 Captive Flights
04324	Moisture
04325	Desiccant Container
04326	Dust Cover Plug
04327	DPM-14 Checkout
04330	Extreme Temperature
04340	Load/Unload
04341	Whenever Sealing Sleeve is Removed
04342	Abort
04343	When Chassis #5 or Frequency Converter is Replaced
04344	Whenever Warhead Safe Arm Device or Fuse is Removed from Missile
04345	Whenever Rocket Motor is Removed from Missile
04346	Whenever Power Plant is Removed from Missile
04346	Whenever Access Covers are Removed from WSEM or Missile
04348	Incident/Accident
04349	When Hydraulic or Electrical Connections are Disconnected
04350	Whenever Branched Warhead Harness has been Installed for 24 Months
04351	Whenever Guidance Unit is Removed from Missile
04352	When the Warhead is to be Removed from Missile
04353	When Warhead is Handled
04354	When Control Surfaces, Servopositioner, Wing, or Cowling is Removed or Installed
04355	When Fuse Antenna is being Installed
04356	When Missile or Missile Components are Stored in Shipping/Storage Containers
04358	Evidence of Tampering
04359	Whenever radioactive Atmosphere has been Encountered
04360	Wing/Roller on and Fin Check
04361	When Guidance Unit is Exposed to Sunlight
04362	Whenever Forward Body Section Displays a Dent or Deterioration
04363	Holding Area
04364	Return to Holding Area
04365	Physical Shock
04366	Transfer from Container to MH-12 Trailer
04367	Launcher Post Download Inspection
04370	After 20 WSEM Flights

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TABLE XI. Air launched missile support general codes - Continued

04371	Whenever Engine Exhaust Gas Temperature Exceeds Limits
04372	First Run After Engine Change
04373	Whenever Emergency Engine Shutdown Occurs
04400	Droppage Inspections (These codes will be assigned as required thru/with code 04400).
04425	
04610	Non-Destructive Testing (All Types)
04620	Analysis of Oil Samples
04630	Research and Development of New or Revised Non-Destructive Inspection Techniques.
04999	Special Inspections Not Otherwise Coded

TABLE XII. Air launched missile SE support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
Code	Description
03A00	Preflight/Daily Inspection
03B00	Postflight
03D00	Storage
03E00	Periodic
03E20	14 Day
03E30	30 Day
03E40	60 Day
03E50	180 Day
03E60	170 day
03600	Replacement
SPECIAL INSPECTIONS	
04A20	Calendar
04A30	Modification
04A41	Corrosion Control
04A50	Transfer
04B80	Checks Requiring Special Checkout Equipment
04C30	Desiccant Check
04E20	Moisture
04E30	Loading Inspection
04E40	Incident/Accident
04E80	Droppage
0411D	Oil Sampling for Spectrometric Analysis
04113	Functional Check

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TABLE XII. Air launched missile SE support general codes - Continued

04610	Nondestructive Testing (All Types)
04630	Research and Development of New or Revised Nondestructive Inspection Techniques
04999	Special Inspection Not Otherwise Coded

TABLE XIII. Ground launched missile support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
Code	Description
03100	Receiving Inspection (includes assembly)
03110	Inspection Crews
0311K	Armament
0311L	Shelter Maintenance
0311M	Ramjet
0311N	Missile Maintenance
0311P	Missile Interface Unit (MIU)
0311Q	Mobile Ground Power
0311R	Fueling
0311S	Disassembly
0311T	SMATE
0311U	IMSOC
03200	Installation (do not use for missile to launcher installation)
03300	Pre-Launch
03400	Daily
03500	Periodic (phase if authorized)
03107	7 Day
03114	14 Day
03510	15 Day
03121	21 Day
03128	28 Day
03520	30 day
03142	42 Day
03156	56 Day
03530	60 Day
03184	84 Day
03540	90 Day
03268	168 Day
03550	180 Day

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TABLE XIII. Ground launched missile support general codes - Continued

03336	336 Day
03560	360 Day
03570	Control Equipment
03580	Armament Test Equipment
03600	Post-Launch/Static Firing
03700	Storage
03701	Storage Inspection
03800	Re-entry Vehicle Recycle
03802	Re-entry Vehicle Recycle for Higher Headquarter Evaluation
03803	Re-entry Vehicle Recycle for Time Compliance Technical Order (TCTO)
03804	Re-entry Vehicle for Limited Life Component/Technical Critical Item (LLC/TCI) Replacement
03806	Disassembly for Operational Test/Follow-on Operational test (OT/FOT)
03807	Assembly for OT/FOT
SPECIAL INSPECTIONS	
04110	Pressure Checks, Warheads
04111	Nuclear Certification
04112	Nuclear Decertification
04120	Missile/Shelter Reset
04130	Pressure Check, Air Bottle
04141	Corrosion Control Inspections Accomplished Separately From Scheduled Inspections
04500	Accomplishment of Checklists
04572	Missile/Launch Verification (Simulation)
04573	Missile/Launch Verification (No Simulation)
04574	Missile Verification
04575	Launch Verification (Simulation)
04576	Launch Verification (No Simulation)
04577	Dynamic Response Test
04578	Combined Systems Test
04583	Thrust Maintenance Operation
04584	Silo Door Operation
04650	Initial Build-up-Recovery Vehicle (RV)
04610	Nondestructive Testing (all types)
04630	Research and Development of New or Revised Nondestructive Inspection Techniques
04999	Special Inspections Not Otherwise Coded
04111	Operational or System Check
04112	Special Modification Inspection

APPENDIX A

TABLE XIII. Ground launched missile support general codes - Continued

04113	Air or Ground Right-of-Way Inspection (includes intersite cable system, fences, insulators, posts, cable markers, etc.)
04141	Corrosion Control Inspections Accomplished Separately From Scheduled Inspections
04610	Nondestructive testing (all types)
04620	Analysis of Oil Samples
04630	Research and Development of New or Revised Nondestructive Inspection Techniques

TABLE XIV. Nonnuclear weapons support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
Code	Description
03111	Daily
03112	6 Month
03113	Annual
03115	Shipping
03130	In-Storage Inspection
03500	Periodic
SPECIAL INSPECTIONS	
0411A	Quality Control
0411B	TCTO
0411C	Assembly Inspection
0411D	Receiving Inspection
0411E	Pre-Issue Inspection
04111	Continuity
04112	Stray Voltage
04113	Moisture
04114	Hard Landing
04115	After Operational Use
04116	Functional Test
04117	Lot Number
04118	Date of Manufacture
04120	Damage Inspection
04130	Special Modification Inspection
04141	Corrosion Control Inspections Accomplished Separately from Scheduled Inspection
04150	Return to Storage Area
04160	Incident/Accident
04280	Checks Requiring Special Checkout Equipment

APPENDIX A

TABLE XIV. Nonnuclear weapons support general codes - Continued

04610	Nondestructive testing (all types)
04620	Analysis of Oil Samples
04630	Research and Development of New or Revised Nondestructive Inspection Techniques
04999	Special Inspections Not Otherwise Coded

TABLE XV. Peculiar munitions SE support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
03100	Daily Inspection Prior to Use
03111	Service Inspection
03112	Acceptance
03114	Periodic
SPECIAL INSPECTIONS	
04111	Special Modification Inspection
04112	Hydrostatic (includes inspection, weighing, and servicing) Inspection
04113	Functional/Operational Check
04114	Special Inspection - General Requirements
04115	Special Inspection - Special Event Inspection Requirements
04117	Battery Capacity/Specific Gravity Check
04119	Corrosion Control Inspection
04610	Nondestructive Testing (all types)
04620	Analysis of Oil Samples
04630	Research and Development of New or Revised Nondestructive Inspection Techniques
04999	Special Inspections Not Otherwise Coded

TABLE XVI. Communication electronic support general codes

"LOOK" PHASE OF CE SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
Code	Description
03100	As Required (other than as specified below)
03101	Daily
03107	7 Day Interval
03114	14 Day Interval
03121	21 Day Interval
03128	28 Day Interval
03142	42 Day Interval
03156	56 Day Interval

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TABLE XVI. Communication electronic support general codes - Continued

03184	84 Day Interval
03268	168 Day Interval
03336	336 Day Interval
PHASED INSPECTIONS	
03410	Daily
0341A	Phase 1
0341B	Phase 2
0341C	Phase 3
0341D	Phase 4
0341E	Phase 5
0341F	Phase 6
0341G	Phase 7
0341H	Phase 8
0341J	Phase 9
0341K	Phase 10
0341L	Phase 11
0341M	Phase 12
0341N	Phase 13
0341P	Phase 14
0341Q	Phase 15
0341R	Phase 16
0341S	Phase 17
0341T	Phase 18
0341U	Phase 19
0341V	Phase 20
0341W	Phase 21
0341X	Phase 22
0341Y	Phase 23
0341Z	Phase 24
0342A	Phase 25
0342B	Phase 26
SPECIAL INSPECTIONS	
04110	Operational or System Checks
04111	Special Modification Inspection
04112	Equipment Inventory
04119	Special Inspections NOC

APPENDIX A

TABLE XVI. Communication electronic support general codes - Continued

04141	Corrosion Control Inspections Accomplished Separately From Scheduled Inspections
04610	Nondestructive Testing (all types)
04630	Research and Development of New or Revised Nondestructive Inspection Techniques

TABLE XVII. Support equipment support general codes

"LOOK" PHASE OF SCHEDULED AND SPECIAL INSPECTIONS	
SCHEDULED INSPECTIONS	
Codes	Description
03111	Service Inspection
03112	Acceptance
03113	Incoming (entering shop)
03114	Periodic
03115	Final (leaving shop)
03310	7 Day Interval
03320	14 Day Interval
03330	30 day Interval
03340	60 Day Interval
03350	90 Day Interval
03360	120 Day Interval
03370	180 Day Interval
03380	270 Day Interval
03390	360 Day Interval
03395	540 Day Interval
03400	720 Day Interval
SPECIAL INSPECTIONS	
0411C	Hydraulic System Contamination Check
0411D	Oil Sampling for Spectrometric Analysis
04111	Special Modification Inspection
04112	Hydrostatic (includes inspection, weighing, and servicing)
04113	Functional/Operational Check
04114	Special Inspection - General Requirements
04115	Special Inspection - Special Event Inspection Requirement
04117	Battery Capacity/Specific Gravity Check
04119	Corrosion Control Inspection (use if accomplished separately from a scheduled inspection)
04610	Nondestructive Testing (all types)
04620	Analysis of Oil Samples

APPENDIX A

TABLE XVII. Support equipment support general codes - Continued

04630	Research and Development of New or Revised Nondestructive Inspection Techniques
04919	Special Inspection Not Otherwise Coded

TABLE XVIII. Training equipment support general codes

"LOOK" PHASE OF SCHEDULED INSPECTIONS (Includes all work such as greasing, etc., included on the work cards, minor fixes, such as tightening clamps and connections, and unbuttoning and buttoning up the trainer.)	
Code	Description
03100	Daily Inspection
03200	Periodic Inspection
04100	Special Modification Inspection
04199	Special Inspections Not Otherwise Coded
04200	Unscheduled Periodic Inspection
04610	Nondestructive Testing (all types)
04630	Research and Development of New or Revised Nondestructive Inspection Techniques

APPENDIX B

WORK UNIT CODE MANUAL TAGGED LANGUAGE TOOLS

B.1 SCOPE.

B.1.1 Scope. This appendix describes the standard Air Force (AF) tagged language digital tools created for developing and delivering AF Technical Manuals (TMs). These tools are available as subsets in the Digital Support Suites (DSS) (see B.2) provided by the AF Technical Manual Specifications and Standards (TMSS) activity. This appendix is a mandatory part of this detail specification. The information herein is intended for compliance.

B.1.2 Document Type Definition (DTD). The DTD is the primary tool that is used as the structure for authoring AF TMs and is based on rules outlined in MIL-HDBK-28001 and ISO 8879. See B.2.1 for information about the DTD specified for this appendix subset.

B.2 DSS.

The DSS is comprised of the following tools for authoring and rendering the TM . See B.3 for information about obtaining DSS component files in digital format through the TMSS activity website. For information about the current status of DSS tools, see B.3.3.

B.2.1 DTD. The DTD provides the structure and content template in accordance with the content specific requirements of this specification. To be delivered digitally, the TM shall be tagged using the applicable DTD provided through the TMSS activity. Information concerning the tagged language type and use of DTDs currently provided, i.e., Standardized General Markup Language (SGML), may be obtained through the contacts listed under B.3.

B.2.2 Formatted Output Specification Instance (FOSI). The FOSI provides formatting for each element of an SGML tagged instance for rendering as a page-oriented document. It contains formatting information that conforms to the content specific requirements of this specification. It should be noted that the FOSIs offered by the TMSS activity are written to be used with a specific document composition engine, i.e., DL Composer™, available for use on the AF JCALS.

B.2.3 Tag Description Table (TDT). The TDT provides detailed descriptions of the elements contained in the DTD. The TDT contains the element tagging structure, parent elements, full element name, source paragraph for this specification, attribute descriptions unique to the element, and entities.

B.2.4 OmniMark™. OmniMark™ is a text processing language that is used by TMSS to allow authors to auto-generate redundant material that may be difficult to tag manually. DSSs contain Omimark™ scripts designed for use on the AF JCALS.

B.3 OBTAINING DSS TOOLS.

B.3.1 Obtaining files through a .mil internet address. The following applies to those seeking to obtain DSS files who possess a .mil internet address.

B.3.1.1 TMSS web site. DTDs, TDTs, and other files in the DSS can be accessed at the TMSS website at https://techdata.wpafb.af.mil/tmss/index.html. On the web page, the “Baseline” menu option in the left pane contains three bulleted options called “Specifications”, “Standards”, and “Handbooks”. Hover the cursor over “Specifications” and a listing of the TMSS specifications will appear. Hover over the desired specification number and another drop down list will appear that contains an entry indicating the PDF version of the specification and other entries for the associated appendices. To obtain the preferred subset DTD, select the desired appendix from the list. The following items will appear on the downloading page: The name of the specification, the appendix number and name, the current version of the DSS, buttons to download specific DSS files provided and a “Download” button to download the entire DSS zip file.

B.3.1.2 AF TMSS Sharepoint web site. DTDs, TDTs, and other files in the DSS can be accessed at the AF TMSS Sharepoint web site: https://cs3.eis.af.mil/sites/OO-LG-MC-38/default.aspx

APPENDIX B

B.3.2 Obtaining files without a .mil internet address. For those seeking to obtain DSS files who possess internet addresses other than .mil., information can be obtained through their AF Program Management Office (PMO) or see B.3.3.

B.3.3 TMSS Helpdesk assistance. Address any requests or questions relating to the DSS by E-mail to SGMLSUPPORT@us.af.mil (organizational address: Wright-Patterson AFLCMC/HIAM_AF TMSS HLPDSK) or by postal mail to Air Force Technical Manual Specifications and Standards, AFMC AFLCMC/HIAM, 4170 Hebble Creek Road, Building 280, Door 15, Wright-Patterson AFB OH 45433-5653.

CONCLUDING MATERIAL

Custodians:
Air Force - 16

Preparing activity:
Air Force - 16
(Project TMSS - 2014 - 004)

Review activities:
Air Force - 01, 02, 10, 11, 13, 19, 70, 71, 84, 99

NOTE

The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil.