

NOT MEASUREMENT
SENSITIVE

MIL-STD-3008 (TM)
30 September 2000

DEPARTMENT OF DEFENSE STANDARD PRACTICE

INTERACTIVE ELECTRONIC TECHNICAL MANUAL (IETM) TECHNICAL DATA REQUIREMENTS TO SUPPORT THE GLOBAL COMBAT SUPPORT SYSTEM - ARMY (GCSS-A)



AMSC A7387

AREA TMSS

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-STD-3008 (TM)

FOREWORD

1. This standard is approved for use by the Department of the Army and is available for use by all Departments and Agencies of the Department of Defense (DoD).
2. This standard provides detailed requirements for collecting and reporting operations, historical, maintenance, and ammunition data for the management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts. The data developed in accordance with this standard will be provided to the Global Combat Support System - Army (GCSS-A). The GCSS-A provides the Army a seamless, integrated, and interactive communications and automated information system (AIS) at all force levels of combat service support (CSS).
3. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: Executive Director, USAMC Logistics Support Activity, Acquisition Logistics Center, ATTN: AMXLS-AP, Redstone Arsenal, AL 35898-7466 by using the Standardization Document Improvement Proposal (DD Form 1426), appearing at the end of this document or by letter.

MIL-STD-3008 (TM)

CONTENTS

| <u>PARAGRAPH</u> | <u>PAGE</u> |
|---|-------------|
| FOREWORD | ii |
| 1. SCOPE | 1 |
| 1.1 Purpose..... | 1 |
| 2. APPLICABLE DOCUMENTS | 1 |
| 2.1 General..... | 1 |
| 2.2 Government documents | 1 |
| 2.2.1 Specifications, standards, and handbooks | 1 |
| 2.3 Order of precedence | 1 |
| 3. DEFINITIONS | 2 |
| 3.1 Definitions | 2 |
| 3.1.1 Acronyms..... | 2 |
| 3.1.2 Combat Service Support (CSS) | 4 |
| 3.1.3 Document Type Definition (DTD) | 4 |
| 3.1.4 Electronic Technical Manual (ETM) | 4 |
| 3.1.5 Electronic Technical Manual-Interface (ETM-I)..... | 4 |
| 3.1.6 Extensible Markup Language (XML) Schema | 5 |
| 3.1.7 Global Combat Support System-Army (GCSS-A) | 5 |
| 3.1.8 Interactive Electronic Technical Manual (IETM) | 5 |
| 3.1.9 Standard Army Maintenance System (SAMS) | 5 |
| 3.1.10 Standard Generalized Markup Language (SGML)..... | 5 |
| 3.1.11 The Army Maintenance Management System (TAMMS) | 5 |
| 3.1.12 Unit Level Logistics System (ULLS) | 6 |
| 4. GENERAL REQUIREMENTS | 6 |
| 4.1 General..... | 6 |
| 4.2 Sources for data collection and reporting..... | 7 |
| 4.3 Preparation of data | 7 |
| 4.3.1 Use of the DTD | 7 |
| 4.4 Sources for providing data | 7 |
| 5. DETAILED REQUIREMENTS | 7 |
| 5.1 Data requirements | 7 |
| 5.1.1 Types of data required..... | 7 |
| 5.1.2 Data tables | 8 |
| 5.2 Cross-functional data requirements..... | 8 |
| 5.2.1 Equipment and personnel identification data | 8 |
| 5.2.1.1 Equipment type | 8 |
| 5.2.1.2 Equipment assignment | 9 |
| 5.2.1.3 Personnel data | 9 |
| 5.2.1.4 Equipment and personnel identification matrix | 10 |
| 5.2.2 Servicing data | 12 |
| 5.2.3 Inspection and maintenance data..... | 13 |
| 5.2.3.1 Preventive maintenance scheduled data | 13 |
| 5.2.3.2 Equipment inspection and maintenance data..... | 13 |
| 5.2.3.3 Equipment/component modification data..... | 15 |
| 5.2.3.3.1 Equipment inspection/modification data | 15 |

MIL-STD-3008 (TM)

| | | |
|-----------|---|----|
| 5.2.3.4 | Maintenance information | 15 |
| 5.2.3.4.1 | Maintenance request register data | 15 |
| 5.2.3.4.2 | Maintenance required data | 16 |
| 5.2.3.4.3 | Parts information | 18 |
| 5.2.3.4.4 | Prescribed load list (PLL) inventory data | 18 |
| 5.2.3.4.5 | Cost data..... | 19 |
| 5.2.4 | Fault data | 20 |
| 5.2.4.1 | Environmental conditions data..... | 20 |
| 5.2.4.2 | Operations/maintenance fault information | 20 |
| 5.2.4.3 | Fault correcting information | 21 |
| 5.2.4.4 | Related maintenance actions data..... | 21 |
| 5.2.4.5 | Uncorrected fault data..... | 22 |
| 5.2.4.6 | Not mission capable data..... | 22 |
| 5.2.5 | IETM data..... | 23 |
| 5.2.5.1 | IETM fault result data | 23 |
| 5.2.5.2 | IETM maintenance reporting data | 23 |
| 5.2.6 | Army oil analysis program data | 24 |
| 5.2.6.1 | Oil analysis request data..... | 24 |
| 5.2.6.2 | Oil analysis and recommendation feedback data | 25 |
| 5.2.7 | Quality assurance..... | 26 |
| 5.2.7.1 | Product quality deficiency data | 26 |
| 5.2.8 | Ammunition data requirements | 27 |
| 5.2.8.1 | Ammunition accounting data | 27 |
| 5.2.8.2 | Ammunition condition data | 28 |
| 5.2.8.3 | Ammunition peculiar equipment utilization..... | 29 |
| 5.2.9 | Parts requisitioning data requirements | 29 |
| 5.2.9.1 | General requisition data | 29 |
| 5.2.10 | Technical manual data..... | 30 |
| 5.2.10.1 | Technical manual (non-IETM) deficiency reporting | 30 |
| 5.2.10.2 | IETM deficiency reporting | 31 |
| 5.3 | Aviation data requirements | 31 |
| 5.3.1 | Operational data requirements | 31 |
| 5.3.1.1 | Flight data | 31 |
| 5.3.1.2 | Flight manual exceedance data | 33 |
| 5.3.1.3 | System status data..... | 33 |
| 5.3.1.4 | Armament information..... | 33 |
| 5.3.1.4.1 | Armament system data..... | 33 |
| 5.3.1.4.2 | Armament system sighting data | 34 |
| 5.3.2 | Maintenance data requirements | 34 |
| 5.3.2.1 | Component maintenance data | 34 |
| 5.3.2.1.1 | Component data | 35 |
| 5.3.2.1.2 | Removal data | 35 |
| 5.3.2.1.3 | Repair/overhaul/gain data | 36 |
| 5.3.2.1.4 | Installation/loss data | 36 |
| 5.3.2.2 | Aviation life support equipment (ALSE) data | 37 |
| 5.3.2.2.1 | Life raft data | 37 |
| 5.3.2.2.2 | Helmet and oxygen mask/connector data | 38 |
| 5.3.2.2.3 | Survival radio/emergency locator transmitter (ELT) data | 39 |
| 5.3.2.2.4 | Survival kit inspection and maintenance data | 39 |
| 5.3.2.2.5 | Mesh net survival vest data | 40 |
| 5.3.2.2.6 | Life preserver data..... | 41 |

MIL-STD-3008 (TM)

| | | |
|-----------|---|----|
| 5.3.2.2.7 | Oxygen console service data | 41 |
| 5.3.2.2.8 | Anti-exposure coveralls data | 42 |
| 5.3.2.2.9 | Night vision goggles (NVG) data | 43 |
| 5.3.3 | Historical data requirements | 43 |
| 5.3.3.1 | Vibration data | 43 |
| 5.3.3.2 | Component historical data | 44 |
| 5.3.3.3 | Component/module recorder data | 44 |
| 5.3.3.4 | Aircraft inventory record | 45 |
| 5.3.3.5 | Aircraft engine data | 45 |
| 5.3.3.5.1 | Engine turbine wheel data | 46 |
| 5.3.3.5.2 | Turbine engine analysis check (TEAC) data | 46 |
| 5.3.3.5.3 | Component operating hours | 47 |
| 5.3.3.5.4 | Meter tracked component data | 47 |
| 5.4 | Non-aviation data requirements | 48 |
| 5.4.1 | Operational data requirements | 48 |
| 5.4.1.1 | Equipment utilization data | 48 |
| 5.4.2 | Maintenance data requirements | 49 |
| 5.4.2.1 | Equipment deadlined | 49 |
| 5.4.3 | Historical data requirements | 50 |
| 5.4.3.1 | Armament information | 50 |
| 5.4.3.1.1 | Armament system data | 50 |
| 5.4.3.2 | Equipment control data | 51 |
| 5.4.3.3 | Equipment maintenance and calibration data | 51 |
| 5.4.3.4 | Watercraft and amphibious lighters | 52 |
| 5.4.3.4.1 | Dry-docking, painting and condition of vessel bottom data | 52 |
| 5.4.3.5 | Rail equipment data | 54 |
| 5.4.3.5.1 | Daily inspection data | 54 |
| 5.4.3.5.2 | Field inspection data | 55 |
| 5.4.3.5.3 | Locomotive inspection and repair data | 56 |
| 6. | NOTES | 57 |
| 6.1 | Intended use | 57 |
| 6.2 | Acquisition requirements | 57 |
| 6.3 | Subject term (key word) listing | 57 |

APPENDIX

| | | |
|---|--------------------------------|----|
| A | Document Type Definition | 58 |
|---|--------------------------------|----|

LIST OF TABLES

| | | |
|-----------|---|----|
| TABLE 1. | Equipment type data | 8 |
| TABLE 2. | Equipment assignment data | 9 |
| TABLE 3. | Personnel data | 9 |
| TABLE 4. | Equipment/personnel matrix | 10 |
| TABLE 5. | Servicing data | 12 |
| TABLE 6. | Preventive maintenance scheduled data | 13 |
| TABLE 7. | Equipment inspection and maintenance data | 13 |
| TABLE 8. | Equipment Inspection/modification data | 15 |
| TABLE 9. | Maintenance request register data | 15 |
| TABLE 10. | Maintenance required data | 16 |

MIL-STD-3008 (TM)

| | |
|--|----|
| TABLE 11. Parts data | 18 |
| TABLE 12. PLL inventory data | 19 |
| TABLE 13. Cost data..... | 19 |
| TABLE 14. Environmental conditions data | 20 |
| TABLE 15. Operations/maintenance fault data | 20 |
| TABLE 16. Fault correcting data | 21 |
| TABLE 17. Related maintenance actions data | 22 |
| TABLE 18. Uncorrected fault data | 22 |
| TABLE 19. Not mission capable data | 22 |
| TABLE 20. IETM fault result data..... | 23 |
| TABLE 21. IETM maintenance reporting data..... | 24 |
| TABLE 22. Oil analysis request data..... | 25 |
| TABLE 23. Oil analysis and recommendation feedback data | 25 |
| TABLE 24. Product quality deficiency data..... | 26 |
| TABLE 25. Ammunition accounting data..... | 27 |
| TABLE 26. Ammunition condition data | 28 |
| TABLE 27. Ammunition peculiar equipment utilization data | 29 |
| TABLE 28. General requisition data | 29 |
| TABLE 29. Technical manual deficiency data | 30 |
| TABLE 30. IETM deficiency data | 31 |
| TABLE 31. Flight data..... | 32 |
| TABLE 32. Flight manual exceedance data | 33 |
| TABLE 33. System status data | 33 |
| TABLE 34. Armament system data..... | 34 |
| TABLE 35. Armament system sighting data | 34 |
| TABLE 36. Component data | 35 |
| TABLE 37. Removal data | 35 |
| TABLE 38. Repair/overhaul/gain data | 36 |
| TABLE 39. Installation/loss data | 36 |
| TABLE 40. Life raft data | 37 |
| TABLE 41. Helmet and oxygen mask/connector data..... | 38 |
| TABLE 42. Survival radio/emergency locator transmitter data..... | 39 |
| TABLE 43. Survival kit inspection and maintenance data..... | 39 |
| TABLE 44. Mesh net survival vest data | 40 |
| TABLE 45. Life preserver data | 41 |
| TABLE 46. Oxygen console service data | 41 |
| TABLE 47. Anti-exposure coveralls data | 42 |
| TABLE 48. NVG inspection and maintenance data..... | 43 |
| TABLE 49. Vibration data | 43 |
| TABLE 50. Component data | 44 |
| TABLE 51. Component/module recorder data | 44 |
| TABLE 52. Aircraft inventory data | 45 |
| TABLE 53. Engine turbine wheel data | 46 |
| TABLE 54. Turbine analysis check data..... | 47 |
| TABLE 55. Engine history recorder operating hours data | 47 |
| TABLE 56. Meter tracked component data..... | 48 |
| TABLE 57. Equipment utilization data..... | 48 |
| TABLE 58. Equipment deadlined data | 49 |
| TABLE 59. Armament system data..... | 50 |
| TABLE 60. Equipment control data | 51 |
| TABLE 61. Equipment maintenance and calibration data | 51 |

MIL-STD-3008 (TM)

| | |
|--|----|
| TABLE 62. Dry-docking, painting and condition of vessel bottom data..... | 52 |
| TABLE 63. Daily inspection data | 54 |
| TABLE 64. Field inspection data | 55 |
| TABLE 65. Locomotive inspection and repair data | 56 |

MIL-STD-3008 (TM)

MIL-STD-3008 (TM)

1. SCOPE.

1.1 Purpose. This standard contains detailed requirements for collecting and reporting operations, historical, maintenance, and ammunition data for the management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts.

2. APPLICABLE DOCUMENTS.

2.1 General. The documents listed in this section are specified in sections 4 and 5 of this standard. This section does not include documents cited in other sections of this standard 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 documents cited in sections 4 and 5 of this standard, 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 standard to the extent specified herein. The issue of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see para. 6.2).

STANDARDS

DEPARTMENT OF DEFENSE

| | | |
|---------------|---|---|
| MIL-PRF-28001 | — | Markup Requirements and Generic Style Specification for Electronic Printed Output and Exchange of Text |
|---------------|---|---|

(Unless otherwise indicated, copies of the above documents are available 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 are those cited in the solicitation.

| | | |
|----------------|---|--|
| DA PAM 738-750 | — | Functional Users Manual for The Army Maintenance Management System (TAMMS) |
| DA PAM 738-751 | — | Functional Users Manual for The Army Maintenance Management System – Aviation (TAMMS-A) |

(Application for copies should be addressed to U.S. Army Publications Distribution Center, 1655 Woodson Road, St. Louis, MO 63114-6181.)

2.3 Order of precedence. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard takes precedence. Nothing in this document, however, supersedes applicable law and regulations unless a specific exemption is obtained.

MIL-STD-3008 (TM)

3. DEFINITIONS.

3.1 Definitions. The acronyms and glossary of terms below are applicable to this standard. Acronyms and definitions within the Tables contained in this standard are provided in the data dictionary for the Document Type Definition (DTD) developed for this standard (Refer to 4.3)

3.1.1 Acronyms.

| | |
|--------|---|
| AC | Action Code |
| ACR | Ammunition Condition Report |
| AIS | Automated Information System |
| ALSE | Aviation Life Support Equipment |
| AMN | APE Management Number |
| AMSS | Army Materiel Status System |
| AOAP | Army Oil Analysis Program |
| APC | Account Processing Code |
| APE | Ammunition Peculiar Equipment |
| APO | Army Post Office |
| APU | Auxiliary Power Unit |
| ASAM | Aviation Safety Action Message |
| ASRL | Army SGML Registry and Library |
| AVIM | Aviation Intermediate Maintenance |
| AVUM | Aviation Unit Maintenance |
| B POS | Blade Position |
| CAGE | Contractor and Government Entity Code |
| CC | Condition Change |
| CC | Condition Code |
| CMH | Crew Manhours |
| CRT | Combat Repair Teams |
| CSS | Combat Service Support |
| DA | Department of the Army |
| DD | Dry Docking |
| DIC | Document Identifier Code |
| DMH | Depot Manhours |
| DoD | Department of Defense |
| DODAAC | Department of Defense Activity Address Code |
| DODISS | Department of Defense Index of Specifications and Standards |
| DOI | Date of Issue |
| DOM | Date of Manufacture |
| DS | Direct Support |
| DTD | Document Type Definition |
| ECC | Equipment Category Code |
| ECOD | Estimated Cost of Damage |
| ECON | Economically Repairable |
| EFC | Equivalent Full Charge Computation |
| EIC | End Item Code |
| ELT | Emergency Locator Transmitter |
| EO | Engineering Orders |
| ERC | Equipment Readiness Code |
| ESRA | Enhanced Special Repair Activity |
| ETI | Elapsed Time Indicator |
| ETM | Electronic Technical Manual |
| ETM-I | Electronic Technical Manual-Interface |
| FAT | Free Air Temperature |

MIL-STD-3008 (TM)

| | |
|--------|--|
| FMH | Field Manhours |
| FSC | Federal Supply Classification |
| FSN | Federal Stock Number |
| GBL | Government Bill of Laden |
| GCSS-A | Global Combat Support System-Army |
| GS | General Support |
| HSF | Hot Section Factor |
| ID STD | Identification Standard (Mission Symbol) |
| IETM | Interactive Electronic Technical Manual |
| IPS | Inches per Second |
| LCF | Low Cycle Fatigue |
| LIN | Line Item Number |
| M&S | Media & Status Code |
| MAOT | Maximum Allowable Operating Time |
| MCSR | Materiel Condition Status Report |
| MDS | Mission, Design, Series |
| MMH | Maintenance Manhours |
| MOS | Military Occupational Specialty |
| MSC | Major Subordinate Command |
| MST | Mobile Support Teams |
| MWO | Modification Work Order |
| NAR | Not Available Reason |
| NHA | Next Higher Assembly |
| NICP | National Inventory Control Point |
| NIIN | National Item Identification Number |
| NMC | Non-mission Capable |
| NMCM | Non-mission Capable Maintenance |
| NMCS | Non-mission Capable Supply |
| NOMEN | Nomenclature |
| NRTS | Not Repairable This Station |
| NSN | National Stock Number |
| NVGs | Night Vision Goggles |
| O/H | On Hand |
| OAT | Outside Air Temperature |
| OMH | Organizational Manhours |
| ORF | Operational Readiness Float |
| PATS | Programmatic and Technical Support |
| PID | Personnel Identifier |
| PLB | Personnel Locator Beacon |
| PLL | Prescribed Load List |
| PMCS | Preventive Maintenance Checks and Services |
| PMD | Preventive Maintenance Daily |
| POS | Position |
| PSI | Pounds Per Square Inch |
| QDR | Quality Deficiency Report |
| RC | Replacement Component |
| RDD | Required Delivery Date |
| RIC | Routing Identifier Code |
| RPM | Revolutions per Minute |
| RR | Railroad |
| SAMS | Standard Army Maintenance System |
| SDU | Signal Detection Unit |
| SFX CD | Suffix Identification Code |
| SGML | Standard Generalized Markup Language |
| SMR | Source, Maintenance, Recoverability |

MIL-STD-3008 (TM)

| | |
|---------|---|
| SOF | Safety of Flight |
| SRA | Specialized Repair Activity |
| SSAN | Social Security Account Number |
| SSN | Starts Since New |
| SSO | Starts Since Overhaul |
| TAMMS | The Army Maintenance Management System |
| TAMMS-A | The Army Maintenance Management System-Aviation |
| TB | Technical Bulletin |
| TBO | Time Between Overhaul |
| TC | Time Change |
| TDA | Table of Distribution & Allowances |
| TEAC | Turbine Engine Analysis Check |
| TGT | Turbine Gas Temperature |
| TIPID | Technical Inspector Personnel Identifier |
| TM | Technical Manual |
| TSN | Time Since New |
| TSO | Time Since Overhaul |
| TTI | Time-Temperature Index |
| UI | Unit of Issue |
| UIC | Unit Identification Code |
| ULLS | Unit Level Logistics System |
| UMCP | Unit Maintenance Collection Point |
| USA | United States Army |
| USAPA | United States Army Publishing Agency |
| VIN | Vehicle Identification Number |
| W/T | Wheel Time |
| WON | Work Order Number |
| WOR | Work Order Request |
| WUC | Work Unit Code |
| XML | Extensible Markup Language |

3.1.2 Combat Service Support (CSS). Combat Service Support includes the battlefield functional areas of manning, arming, fixing, fueling, moving, and sustaining soldiers and their systems. It is characterized by anticipation, integration of functions, continuity of support, responsiveness, and versatility to circumstances and improvisation.

3.1.3 Document Type Definition (DTD). The definition of the markup rules for a given type of document. Defines the structure of a document, similar to the schema of a database. DTDs are part of the SGML structure methodology, and within this standard, the DTD identifies element names for each of the tables and table entries; indicates whether an element is required or optional and repeatable; and groups elements as necessary to show data relationship.

3.1.4 Electronic Technical Manual (ETM). A general term that describes combinations of technical manual data in digital formats, stored in optical or magnetic media, and viewed through electronic display devices.

3.1.5 Electronic Technical Manual-Interface (ETM-I). ETM-I is a prototype software interface, through which the user can electronically transfer parts request information and work order data between the ETM platform and the Unit Level Logistics System (ULLS) and the Standard Army Maintenance System (SAMS). The interface will reduce extensive data entry and eliminate transposition errors that could lead to faulty requisitions and excess parts.

MIL-STD-3008 (TM)

3.1.6 Extensible Markup Language (XML) Schema. For purposes of transmitting data to a database, XML Schema provides the same functionality as a DTD: naming of elements; indicating required/optional/repeatable requirements; and indicating data relationship. In addition, XML Schemas can identify and enforce data types for any element. Therefore, if it is determined that a “PID” element must consist of 2 Letters followed by 4 digits (MM0022), an XML schema can indicate this requirement. DTDs can not indicate or enforce data typing.

3.1.7 Global Combat Support System-Army (GCSS-A). The Global Combat Support System-Army is designed to provide the Army a seamless, integrated and interactive communications and automated information system at all force levels of combat service support (CSS). The system will streamline CSS information management by eliminating duplicative systems, consolidating logistics automated information system functionality, sharing data and computing applications among components of the system, and inserting advances in emerging information technology.

3.1.8 Interactive Electronic Technical Manual (IETM). An IETM is a technical manual, prepared (authored) by a contractor and delivered to the Government or prepared by a Government activity, in digital form on a suitable medium, by means of an automated authoring system; designed for electronic screen display to an end user; and possessing the following three characteristics: (1) The format and style of the presented information are optimized for screen presentation to assure maximum comprehension; that is, the information presented is frame-oriented, not page-oriented; (2) The elements of technical information constituting the IETM are so interrelated that a user's access to the information he/she requires is facilitated to the greatest extent possible, and is achievable by a variety of paths; (3) The computer-controlled IETM electronic display system (EDS) can function interactively (as a result of user request and information input) in providing procedural guidance, navigational directions, and supplemental information; and also in providing assistance in carrying out logistic support functions supplemental to maintenance.

3.1.9 Standard Army Maintenance System (SAMS). The SAMS for the direct support (DS) and general support (GS) levels of maintenance provides maintenance and management information to each level of command from the user to the division or corps, wholesale, and DA levels. SAMS is divided into two levels: SAMS-1 which operates at the DS/GS maintenance company; and SAMS-2 which operates at command levels above the maintenance company.

3.1.10 Standard Generalized Markup Language (SGML). SGML is a standard for describing the structure, as opposed to the format, of a document. The structure of a book can be separated into a title page, a table of contents, chapters, appendices, a glossary and an index. In SGML, these parts of a book are called elements. These elements are combined to create a complete book. Elements are the structural building blocks of a document. In SGML, the elements are identified by markings (markup) at the beginning and ending of each element. These markings appear as a start and end tag (sometimes referred to as tagging) for most SGML elements.

3.1.11 The Army Maintenance Management System (TAMMS). TAMMS oversees the control, operations and maintenance support of Army equipment. It administers a series of forms and records to manage maintenance, control the use, and report warranty actions and deficiencies on each piece of reportable equipment. In addition to formally documenting equipment deficiencies and maintenance actions, this data is used to track parts consumption, grades and quantities of consumables, failure trends, etc.

MIL-STD-3008 (TM)

3.1.12 Unit Level Logistics System (ULLS). ULLS is an automated Army system that collects maintenance and supply data and provides management information at the unit level. It automates and/or replaces portions of TAMMS.

4. GENERAL REQUIREMENTS.

4.1 General. Detailed requirements for collecting and reporting operations, maintenance, historical, ammunition, and parts requisition data for efficient management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, are provided in this section. The data described in this section will be provided to the Global Combat Support System - Army (GCSS-A). The GCSS-A provides the Army a seamless, integrated, and interactive communications and automated information system (AIS) at all force levels of combat service support (CSS). It provides users a responsive and efficient means to rapidly anticipate, allocate, and synchronize the flow of available CSS resources to equip, deploy, project, sustain, reconstitute, and re-deploy tactical forces in support of the national military strategy. Providing these operations, maintenance, historical, ammunition and parts requisition data to the GCSS-A will provide for the following major capabilities:

- a. Provide the capability to request all classes of supplies, manage prescribed load lists, bench stock, shop stock, combat spares, and repairable items.
- b. Provide the capability to manage maintenance workloads and coordinate repair activities, establish maintenance priorities, and control subordinate elements such as combat repair teams (CRT) and mobile support teams (MST) and contact teams operating from the unit maintenance collection point (UMCP).
- c. Provide the functionality needed to report supply and maintenance financial information at all levels.
- d. Provide the functionality to report maintenance status and Army Materiel Status System (AMSS) data from organizational maintenance at the unit level, shop operations of Direct Support (DS) and General Support (GS) maintenance units, installation level maintenance support at TDA activities, and Aviation Unit Maintenance (AVUM) and Aviation Intermediate Maintenance (AVIM).
- e. Provide the functionality for the equipment dispatch procedures, maintenance and inspection worksheet procedures, recording and disposition of maintenance faults, repair parts removal and installation, equipment services performed, and all TAMMS and TAMMS-Aviation (TAMMS-A) record management.
- f. Downloading of existing weapon system historical and maintenance records and data from GCSS-A to an external device for deployment with the unit.
- g. Transfer of equipment, maintenance, historical, supply requests, and other information back to the parent unit and the task force command while operating in a deployed status.
- h. Upload records, information, and data for system updates upon return of units.
- i. Provide MST, CRT, maintenance contact team, maintainers, and technical repair personnel for all weapon systems with maintenance information at the point of repair or on site wherever maintenance is performed.

MIL-STD-3008 (TM)

- j. Provide users with an embedded capability that allows access to the ETM, ETM-I, or IETM.
- k. Provide total asset visibility and readiness of sub-weapon systems and sub-components by weapons system or end item tail number, bumper number, or serial number.
- l. Provide the functionality needed to dynamically query unit readiness status and trends on any weapon system, end item, subsystem or serial numbered component for any preceding period of time.
- m. Provide the capability to manage phased maintenance requirements for weapon systems and end items by model and design series.
- n. Provide the functionality and capabilities needed to monitor, control and track commercial vendor provided maintenance support.

4.2 Sources for data collection and reporting. Electronic Technical Manuals (ETMs)/Interactive Electronic Technical Manuals (IETMs) shall be used as the primary source for collecting and reporting the operations, maintenance, historical, ammunition and parts requisition data. For those systems and equipment that are not supported by ETMs/IETMs, other automated or manual methods should be used to collect and report the data described in this section to the GCSS-A.

4.3 Preparation of data. Operations, maintenance, historical, ammunition and parts requisition data developed and delivered digitally in accordance with this standard shall be Standard Generalized Markup Language (SGML) tagged using the Document Type Definition (DTD) of this standard. The Document Type Definition can be obtained from the United States Army Publishing Agency (USAPA). SGML tags used in the DTD are noted throughout the text of this standard in bracketed, bold characters (i.e., **<gendata>**) as a convenience for the developer and to ensure that the tags are used correctly when developing the data.

4.3.1 Use of the DTD. The DTD referenced in this standard interprets the technical content and structure for the data requirements contained in the standard and are mandatory for use. Appendix A provides information concerning where the DTD may be obtained.

4.4 Sources for providing data. The ETM/IETM shall be the primary source for obtaining the data described herein. If the data is not provided by the existing ETM/IETM or an ETM/IETM is not available, other automated or manual sources should be used to obtain this data. Existing systems such as the Army Maintenance Management System-Aviation (TAMMS-A), Unit Level Logistics System (ULLS), or Standard Army Maintenance System (SAMS) may be used or the data can be manually provided in the interim using form templates.

5. DETAILED REQUIREMENTS.

5.1 Data requirements. Data needed to effectively and efficiently manage and support aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be developed. The data, used in conjunction with the GCSS-A will provide the capability to support worldwide deployment, employment, and sustainment of combat forces in various scenarios and areas of operations.

5.1.1 Types of data required. Specific functional data needed for aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, are listed as follows:

MIL-STD-3008 (TM)

- a. Operational data
- b. Maintenance data
- c. Historical data
- d. Ammunition data
- e. Parts requisitioning data.

In addition to the data required for the five major functional areas, cross-functional data shall be developed. This cross-functional data spans multiple functional areas and are used to link with other specific functional data required by this standard. Cross-functional data requirements are applicable to both aviation and non-aviation areas and are provided in 5.2. Data requirements for aviation weapons systems and related equipment are provided in 5.3. Data requirements for non-aviation weapons systems and related equipment are provided in 5.4.

5.1.2 Data tables. Specific data shall be developed and organized in the form of functional data tables. These tables are structured according to the data associations which dictate the table configuration. The interrelationships and data hierarchy between tables are only established through the use of the applicable Document Type Definition. With the exception of Table 4, the tables are structured into one column. The "Data Element Title" column provides the noun phrase to identify the data element with sufficient modifiers to ensure title uniqueness for a specific data element definition. The "Data Name" is defined in the DTD.

5.2 Cross-functional data requirements. Cross-functional data tables have attributes that can span multiple functional areas and are used to link with other functional tables throughout this standard. The cross-functional data contained herein are inherent to the identification, description, origin, custody, operation, support and location of a specified weapon system or piece of equipment.

5.2.1 Equipment and personnel identification data. Equipment identification information is compiled and collated in such a manner as to accurately identify and describe any piece of equipment. Similarly, personnel information is provided to accurately identify personnel involved in operations and maintenance support. The objective of this methodology is to minimize redundancy of information without creating voids in the assimilated data. In Tables 1 through 3, the elements followed by an asterisk (*) are considered required elements for identification; all other elements are considered optional.

5.2.1.1 Equipment type. Table 1 provides standardized information for identifying aviation and non-aviation equipment, the latter including watercraft and rail equipment. This table also provides specific information on a piece of equipment, both by alpha and/or numerical designation and origin. It encompasses an equipment grouping that includes: assembly, sub-assembly, component, sub-component, end item, part, module, piece, and accessory.

TABLE 1. Equipment type data

| Data Element Title | Data Element Name/Attributes |
|---|-------------------------------------|
| 1. Administration Number* | 1. <admin-no> |
| 2. Bumper Number* | 2. <bump -no> |
| 3. Car Number* | 3. <car-no> |
| 4. Commodity | 4. <commodity> |
| 5. Contract Number | 5. <contract-no> |
| 6. Contractor and Government Entity (CAGE) Code** | 6. <cageno> |
| 7. Control Number | 7. <cntrlno> |
| 8. Date Item Entered Into Army Inventory | 8. <date> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|------------------------------|
| 9. End Item Code (EIC) | 9. <eic> |
| 10. Equipment Category Code (ECC) | 10. <ecc> |
| 11. Government Bill of Laden (GBL) Number | 11. <gblno> |
| 12. Identification Code | 12. <identno> |
| 13. Line Item Number (LIN) | 13. <lin> |
| 14. Local Identification Number | 14. <local-identno> |
| 15. Locomotive Number* | 15. <locomotive-no> |
| 16. Lot Number | 16. <lotno> |
| 17. Make/Model/Type | 17. <make-model-type> |
| 18. Manufacturer's Address | 18. <manuf-address> |
| 19. Manufacturer's Name | 19. <manuf-name> |
| 20. Manufacturer's Part Number | 20. <manuf-partno> |
| 21. Mission, Design, Series (MDS) | 21. <mds> |
| 22. National Stock Number (NSN)* | 22. <nsn> |
| 23. Nomenclature | 23. <nomen> |
| 24. Part Number** | 24. <partno> |
| 25. Purchase Order Number | 25. <pono> |
| 26. Requisition Number | 26. <reqno> |
| 27. Serial Number* | 27. <serialno> |
| 28. Vehicle Identification Number (VIN) | 28. <vin> |

*Required Identifier

**Part Number followed by CAGE Code may be used in lieu of NSN.

5.2.1.2 Equipment assignment. Table 2 provides necessary information to identify the organization that has ownership, custody and/or control of the specified aviation or non-aviation equipment.

TABLE 2. Equipment assignment data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. DOD Activity Address Code (DODAAC)* | 1. <dodaac> |
| 2. Unit Identification Code (UIC)* | 2. <uic> |
| 3. Unit/Activity: a. Name* b. Address* c. Home Station* d. APO e. ZIP Code* | 3. <unit-activity> a. <name> b. <address> c. <home-station> d. <apo> e. <zip> |

*Required Identifier

5.2.1.3 Personnel data. Table 3 provides identification and operational information on personnel who are involved in the daily operations of aviation and non-aviation equipment. The information includes both the operating crew and the maintenance personnel who provide daily support services and perform daily inspections.

TABLE 3. Personnel data

| Data Element Title | Data Element Name/Attributes |
|--|------------------------------|
| 1. Name | 1. <name> |
| 2. Rank | 2. <rank> |
| 3. Grade | 3. <grade> |
| 4. Job Title | 4. <job-title> |
| 5. Social Security Account Number (SSAN) | 5. <ssan> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 6. Personnel Identifier (PID)* | 6. <pid> |
| 7. Employee Number* | 7. <empno> |
| 8. Military Occupational Specialty (MOS) | 8. <mos> |
| 9. Unit/Activity Assigned To | 9. <unit-activity> |
| 10. National Guard: a. Full Time b. Part Time | 10. <natl-guard> a. <natl-guard status="fulltime"> b. <natl-guard status="parttime"> |
| 11. Duty Symbol | 11. <dutysymbol> |
| 12. Flight Symbol | 12. <flightsymbol> |
| 13. Flight Hours | 13. <flight-hours> |
| 14. Seat | 14. <seat> |
| 15. Equipment Operator Qualification/Permit Data: a. Date of Birth b. Sex c. Weight d. Height e. Hair (Color) f. Eyes (Color) g. Miles/Kilometers Since Last Action h. Days Since Last Action i. License Expiration Date j. License Number k. Hours Since Last Action l. Total Miles Driven m. Commander's PID n. Equipment Qualifications: 1) Equipment Class Code 2) Code Description 3) Date Qualified o. Restrictions/Transactions: 1) Code 2) Date 3) Description | 15. <op-permit-data> a. <dob> b. <sex> c. <weight> d. <height> e. <hair> f. <eyes> g. <miles-kilometers> h. <days> i. <date-lic-exp> j. <licno> k. <hours> l. <totalmiles> m. <commander-pid> n. <eqp-qual> 1) <eqp-class-code> 2) <desc> 3) <date-eqp-qual> o. <restrictions> 1) <code> 2) <date> 3) <desc> |

*Required Identifier

5.2.1.4 Equipment and personnel identification matrix. Table 4 identifies the tables in this standard that are linked to required identifiers contained in Tables 1 through 3. A table that has no assignment is a standalone table containing relevant identifying information.

TABLE 4. Equipment/personnel matrix

| Table No. | Table Title | Equipment/Personnel Tables | | |
|-----------|---|----------------------------|---------|---------|
| | | Table 1 | Table 2 | Table 3 |
| 5 | Servicing Data | X | X | X |
| 6 | Preventive Maintenance Scheduled Data | X | X | X |
| 7 | Equipment Inspection and Maintenance Data | X | X | X |
| 8 | Equipment Inspection/Modification Data | | | |
| 9 | Maintenance Request Register Data | X | X | |
| 10 | Maintenance Required Data | X | | |
| 11 | Parts Data | | | |
| 12 | PLL Inventory Data | | X | |
| 13 | Cost Data | X | X | X |
| 14 | Environmental Conditions Data | X | X | X |

MIL-STD-3008 (TM)

| Table No. | Table Title | Equipment/Personnel Tables | | |
|-----------|---|----------------------------|---------|---------|
| | | Table 1 | Table 2 | Table 3 |
| 15 | Operations/Maintenance Fault Data | X | X | X |
| 16 | Fault Correcting Data | X | X | |
| 17 | Related Maintenance Actions Data | X | X | X |
| 18 | Uncorrected Fault Data | X | X | |
| 19 | Not Mission Capable Data | X | X | |
| 20 | IETM Fault Result Data | X | X | |
| 21 | IETM Maintenance Reporting Data | X | X | |
| 22 | Oil Analysis Request Data | | | |
| 23 | Oil Analysis And Recommendation Feedback Data | | | |
| 24 | Product Quality Deficiency Data | | | |
| 25 | Ammunition Accounting Data | X | X | X |
| 26 | Ammunition Condition Data | X | | X |
| 27 | Ammunition Peculiar Equipment Utilization Data | | | |
| 28 | General Requisition Data | | | |
| 29 | Technical Manual Deficiency Data | | | |
| 30 | IETM Deficiency Data | | | |
| 31 | Flight Data | X | X | X |
| 32 | Flight Manual Exceedance Data | X | X | X |
| 33 | System Status Data | X | X | |
| 34 | Armament System Data | X | X | X |
| 35 | Armament System Sighting Data | X | X | X |
| 36 | Component Data | X | X | |
| 37 | Removal Data | X | X | X |
| 38 | Repair/Overhaul/Gain Data | X | X | X |
| 39 | Installation/Loss Data | X | X | |
| 40 | Life Raft Data | | | |
| 41 | Helmet And Oxygen Mask/Connector Data | | | |
| 42 | Survival Radio/Emergency Locator Transmitter Data | | | |
| 43 | Survival Kit Inspection And Maintenance Data | | | |
| 44 | Mesh Net Survival Vest Data | | | |
| 45 | Life Preserver Data | | | |
| 46 | Oxygen Console Service Data | | | |
| 47 | Anti-Exposure Coveralls Data | | | |
| 48 | NVG Inspection And Maintenance Data | | | |
| 49 | Vibration Data | X | X | |
| 50 | Component Data | X | X | |
| 51 | Component/Module Recorder Data | X | X | |
| 52 | Aircraft Inventory Data | X | X | |
| 53 | Engine Turbine Wheel Data | X | X | X |
| 54 | Turbine Analysis Check Data | X | X | X |
| 55 | Engine History Recorder Operating Hours Data | | | |
| 56 | Meter Tracked Component Data | | | |
| 57 | Equipment Utilization Data | X | X | |
| 58 | Equipment Deadlined Data | X | X | |
| 59 | Armament System Data | | | |
| 60 | Equipment Control Data | X | X | X |
| 61 | Equipment Maintenance And Calibration Data | X | X | |
| 62 | Dry-Docking, Painting And Condition Of Vessel Bottom Data | X | X | X |
| 63 | Daily Inspection Data | X | X | X |
| 64 | Field Inspection Data | X | X | X |
| 65 | Locomotive Inspection And Repair Data | X | X | X |

MIL-STD-3008 (TM)

5.2.2 Service data. Servicing data records the history of service performed on a piece of equipment and advises when the next services are due. Servicing data are recorded at the start of the mission day and are a part of the daily servicing inspection performed by the crew chief or mechanic. The data in Table 5 include the results of the inspection and the grades and quantities of consumables added.

TABLE 5. Servicing data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Aircraft Pre -Mission Day Check: a. Date/Time Performed b. Fuel Grade c. Fuel in Tanks d. Oil: 1) Engine Number 2) Oil Quantity 3) Oil Grade e. APU Oil Quantity f. APU Oil Grade g. Oxygen PSI h. Anti-Icing Fluid i. Service-by PID j. Location | 1. <pre-mission-day-check> a. <date-time> b. <fuel-grade> c. <fuel-in-tank> d. <oil-data> 1) <eng-no> 2) <qty-oil> 3) <oil-grade> e. <qty-apu-oil> f. <apu-oil-grade> g. <o2psi> h. <anti-ice-fluid> i. <service-by-pid> j. <location> |
| 2. Aircraft Mission Day Servicing: a. Date/Time Performed b. Fuel Grade c. Fuel In Tanks d. Oil: 1) Engine Number 2) Oil Quantity 3) Oil Grade e. APU Oil Quantity f. APU Oil Grade g. Oxygen PSI h. Anti-Icing Fluid i. Service-by PID j. Location | 2. <mission-day-service> a. <date-time> b. <fuel-grade> c. <fuel-in-tank> d. <oil-data> 1) <eng-no> 2) <qty-oil> 3) <oil-grade> e. <qty-apu-oil> f. <apu-oil-grade> g. <o2psi> h. <anti-ice-fluid> i. <service-by-pid> j. <location> |
| 3. Equipment Servicing Data: a. Army Oil Analysis (AOAP) Sample: 1) Date/Time Performed 2) Hours b. Next Service: 1) Date/Time Performed 2) Miles/Kilometers 3) Hours c. Next Lube: 1) Date/Time Performed 2) Miles/Kilometers 3) Hours | 3. <eqp-service-data> a. <AOAP-sample-data> 1) <date-time> 2) <hours> b. <Next-service-data> 1) <date-time> 2) <miles-kilometers> 3) <hours> c. <Next-lube-data> 1) <date-time> 2) <miles-kilometers> 3) <hours> |

MIL-STD-3008 (TM)

5.2.3 Inspection and maintenance data. Inspection and maintenance data address both scheduled and unscheduled maintenance inspections of aircraft and equipment and their results. These inspections are performed in accordance with the standards established in the technical manuals that apply to the equipment. The data include the results of inspections, tests, diagnostic actions and any associated maintenance performed. Fault information noted during inspections and maintenance operations are addressed in 5.2.4.

5.2.3.1 Preventive maintenance scheduled data. Table 6 provides scheduled maintenance inspection data. Such information is typically predicated on operating hours, phased inspections, calendar intervals and daily inspections. It covers data of scheduled and performed unit maintenance, including lubrication services. This data also provides tracking information on non-mission capable (NMCM/NMCS) time.

TABLE 6. Preventive maintenance scheduled data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Aircraft Data: a. Hours of Operation Since Last Generation b. Next Phase/Scheduled Inspection Number c. Next Phase/Scheduled Inspection Due At d. Hours of Operation to Next Phase/Scheduled Inspection e. Preventive Maintenance Daily (PMD) 1) Due f. Date Completed | 1. <air-maint-sched-data> a. <op-hours measured="since-last-report"> b. <insp-no> c. <next-phase-insp-due> d. <hours-to-next-insp> e. <pm-d-data> 1) <pm-d-due> f. <date-time> |
| 2. Non-Aviation Equipment Data: a. Date Received b. Received From c. Disposition d. Maintenance Information: 1) Inspection Type: a) Daily b) Weekly c) Monthly d) Other 2) NMC Data 3) Remarks | 2. <non-air-maint-sched-data> a. <date-received> b. <received-from> c. <disposition> d. <eqp-data-maint-info> 1) <insp-type> a) <insp-type type="daily"> b) <insp-type type="weekly"> c) <insp-type type="monthly"> d) <insp-type type="other" othertype="xx"> 2) <nmc-data> 3) <remarks> |

5.2.3.2 Equipment inspection and maintenance data. Table 7 provides data on managing and controlling maintenance. It covers data on all inspections, services, checks and replacements listed in the Special Inspections section of the aircraft maintenance manual that are not performed during regularly scheduled maintenance inspections. It includes information on faults and damage discovered during aviation and non-aviation equipment inspections, spot checks and diagnostic checks, and includes repair and replacement part information.

TABLE 7. Equipment inspection and maintenance data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Aviation and Non-Aviation Equipment Data for ECOD: a. Technical Inspection: 1) TM Fault Number | 1. <air-nonair-eqp-data-ecod> a. <technical-insp-data> 1) <fault-code> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 2) Status 3) Deficiencies and Shortcomings 4) Corrective Action 5) Corrective Action Manhours b. Date of Manufacture c. Miles/Kilometers Since New d. Time Since New (Hours) e. Outstanding Modification Data: 1) Modification Number 2) Hours Required f. Total Manhours to Repair g. Total Manhours Cost h. Maintenance Expenditure Limits – Technical Bulletin i. Repair Cost Factor: 1) Percentage 2) Dollar Factor j. Required Replacement Parts: 1) Fault Number 2) Document Number 3) Priority 4) Deadline Code 5) NSN/NIIN 6) Nomenclature 7) Quantity 8) Cost k. Total Cost of Replacement Parts l. Total Cost of Repairs | 2) <status-symbol> 3) <deficiency> 4) <corr-action> 5) <manhours-expend> b. <date-of-manuf> c. <miles-kilometers-since-new> d. <hours-since-new> e. <outstanding-mod-data> 1) <reference> 2) <manhours-proj> f. <manhours-expend> g. <manhours-cost> h. <reference> i. <repair-cost-data> 1) <repair-cost-data percentage> 2) <repair-cost-data dollar-factor> j. <ecod-part-req-data> 1) <fault-code> 2) <docno> 3) <priority> 4) <deadline> 5) <niin nsn> 6) <nomen> 7) <qty> 8) <part-cost> k. <total-parts-cost> l. <total-cost> |
| 2. Aviation Equipment Data: a. Inspection Number b. Item to be Inspected c. Reference: 1) Publication Number 2) Date d. Frequency: 1) Special Inspection 2) Test 3) Calibration 4) Replacement e. Next Due Operating Hours f. Next Due Rounds Fired g. Next Due Date | 2. <air-eqp-insp-maint-data> a. <insp-no> b. <insp-item> c. <reference> 1) <tmnoref> 2) <date> d. <frequency-data> 1) <frequency-data type="special-inspection"> 2) <frequency-data type="test"> 3) <frequency-data type="calibration"> 4) <frequency-data type="replacement"> e. <hours-to-next-insp> f. <rounds-to-next-insp> g. <date-inspection-due> |
| 3. Non-Aviation Equipment Data: a. Miles/Kilometers b. Hours c. Rounds Fired d. Hot Starts e. Type Inspection f. References: 1) Publication Number 2) Date 3) Work Package 4) Figure 5) Item | 4. <non-air-eqp-insp-maint-data> a. <miles-kilometers> b. <hours> c. <rounds-fired> d. <hot-starts> e. <insp-type> f. <reference> 1) <tmnoref> 2) <date> 3) <wpref> 4) <figref> 5) <itemref> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|----------------------------------|------------------------------|
| g. Time | g. <time> |
| h. Manhours Required | h. <manhours-proj> |
| i. PMCS Item Number | i. <pmcs-item-no> |
| j. Status: | j. <status-symbol> |
| k. Deficiencies and Shortcomings | k. <deficiency> |
| l. Corrective Action | l. <corr-action> |

5.2.3.3 Equipment/component modification data. Equipment/component modification data provide information on all authorized DA modifications to equipment, aircraft and aircraft training devices and simulators. This information includes data from Safety of Flight Messages, Aviation Safety Action Messages and Technical Bulletins.

5.2.3.3.1 Equipment inspection/modification data. Table 8 provides information on all authorized DA modifications to equipment, aircraft and aircraft training devices and simulators.

TABLE 8. Equipment Inspection/modification data

| Data Element Title | Data Element Name/Attributes |
|--|------------------------------|
| 1. Nomenclature | 1. <nomen> |
| 2. Equipment/Component Serial Number | 2. <comp -serialno> |
| 3. Modification Title | 3. <title> |
| 4. Date | 4. <date-time> |
| 5. Priority | 5. <priority> |
| 6. Maintenance Level | 6. <maintlvl> |
| 7. Modification Data: | 7. <reference> |
| a. Modification Number | a. <modno> |
| b. Safety of Flight (SOF) Number | b. <sofno> |
| c. Aviation Safety Action Message (ASAM) | c. <asam> |
| d. Technical Bulletin (TB) Number | d. <tbno> |
| 8. Modification Kit Number | 8. <kit-no> |
| 9. Date Modification Must Be Applied | 9. <date-completed> |
| 10. Organization Applying Modification: | 10. <org-applying-mod> |
| a. Name | a. <name> |
| b. UIC | b. <uic> |
| c. Location | c. <location> |
| d. PID | d. <pid> |
| e. Manhours | e. <manhours-expend> |
| 11. Remarks | 11. <remarks> |

5.2.3.4 Maintenance information. Maintenance information is data pertinent to maintenance support for a unit and can be relevant to intermediate maintenance support, depot support or contractor support.

5.2.3.4.1 Maintenance request register data. Table 9 provides data on job and work orders started at the unit maintenance level, and processed to the intermediate maintenance unit or depot where the work will be performed. It includes data on all open work orders, manhours and work order status.

TABLE 9. Maintenance request register data

| Data Element Title | Data Element Name/Attributes |
|--------------------------|------------------------------|
| 1. Job/Work Order Number | 1. <jobno> |
| 2. Priority Number | 2. <priority> |
| 3. Quantity | 3. <qty> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 4. Work Requested by | 4. <work-requested-by-data> |
| 5. Brief Description of Work or Remarks: a. Modification | 5. <desc> a. <modno> |
| 6. Date Job Order Was Received | 6. <date-received> |
| 7. Date Repair Started | 7. <date-started> |
| 8. Date Repair Finished | 8. <date-end> |
| 9. Manhours: a. Direct b. Indirect | 9. <manhours-proj> <manhours-proj type="direct"> <manhours-proj type="indirect"> |
| 10. Labor Cost | 10. <manhours-cost> |
| 11. Parts Cost | 11. <total-parts-cost> |
| 12. Total Cost of Job | 12. <total-cost> |
| 13. NMCS | 13. <nmcs> |
| 14. NMCM | 14. <nmcm> |
| 15. Work Request Status Code | 15. <work-request-status-code> |

5.2.3.4.2 Maintenance required data. Table 10 provides data applicable to requests for maintenance support and the support that is provided at all levels of maintenance, including the tracking of data. It also includes information for filing Warranty Claim Actions and on action taken in response to Modification Work Orders, Aviation Safety Action/Safety of Flight messages, and Technical Bulletins.

TABLE 10. Maintenance re quired data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Customer Data: a. UIC Customer b. Customer Unit Name c. Utilization Code d. MCSR | 1. <cust-data> a. <uic> b. <unit-name> c. <utiliz-code> d. <mcsr> |
| 2. Maintenance Activity Data: a. Work Order Number (WON) b. Shop Section Code c. UIC Support Unit d. Support Unit Name | 2. <maint-acty-data> a. <won> b. <shop-section-code> c. <support-unit-uic> d. <unit-name> |
| 3. Additional Data on Equipment: a. Date/Time b. Type Maintenance Request Code c. Identification Code d. Organization Work Order Request (WOR) e. Document Number f. Quantity g. Priority Designator h. Malfunction Description i. Failure Code j. Failure Detected/When Discovered Code k. First Indication of Trouble Code l. How Recognized Code m. Miles/Kilometers n. Hours o. Rounds p. Project Code q. Account Processing Code (APC) r. Operational Readiness Float (ORF) Authorized s. ORF Transfer | 3. <add-eqp-data> a. <date-time> b. <type-maint-req-code> c. <identno> d. <orig-won> e. <docno> f. <qty> g. <priority> h. <malfunction> i. <fail-code> j. <fail-when-discov-code> k. <first-trouble-code> l. <how-recognized-code> m. <miles-kilometers> n. <hours> o. <rounds> p. <proj-code> q. <apc> r. <orf-authority> s. <orf-transfer> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|--|
| t. In Warranty u. Administration Number v. Reimbursable Customer w. Level of Work x. Description of Fault or Failure y. Additional Maintenance Action z. Technical References aa. Remarks bb. Accepted by cc. Work Request Status Code dd. Remarks | t. <in-warranty> u. <admin-no> v. <reimburs-cust> w. <maintlvl> x. <failure> y. <action> z. <reference> aa. <remarks> bb. <accepted-by> cc. <work-request-status-code> dd. <remarks> |
| 4. Task Requirements: a. File Input Action Code (AC) b. Task Number c. Task Description: 1) Brief Description 2) Identification 3) NSN 4) Modification d. Quantity to Be Repaired e. Work Center Code f. Failure Code g. Manhours Projected: 1) Direct 2) Indirect h. Manhours Expended: 1) Direct 2) Indirect | 4. <task-req-data> a. <file-input-ac> b. <taskno> c. <task-desc-data> 1) <desc> 2) <identno> 3) <nsn> 4) <modno> d. <qty-to-be-repaired> e. <work-ctr-code> f. <fail-code> g. <manhours-proj> <manhours-proj type="direct"> <manhours-proj type="indirect"> h. <manhours-expend> <manhours-expend type="direct"> <manhours-expend type="indirect"> |
| 5. Completion Data: a. Quantity Repaired b. Quantity Condemned c. Quantity Not Repairable This Station (NRTS) d. Evacuation Work Order Number (WON) e. Evacuation Unit Name | 5. <completion-data> a. <qty-repaired> b. <qty-condemned> c. <qty-nrts> d. <won> e. <unit-name> |
| 6. Part Data-Document Number | 6. <docno> |
| 7. Action Data: a. Accepted by 1) PID 2) Status 3) Date b. Started by 1) PID 2) Status 3) Date c. Inspected by 1) PID 2) Status 3) Date d. Picked Up by 1) PID 2) Status 3) Date e. Work Request Status Code f. Date-Time | 7. <action-data> a. <accepted-by-data> 1) <pid> 2) <status-symbol> 3) <date-time> b. <work-started-by-data> 1) <pid> 2) <status-symbol> 3) <date-time> c. <inspected-by-data> 1) <pid> 2) <status-symbol> 3) <date-time> d. <picked-up-by-data> 1) <pid> 2) <status-symbol> 3) <date-time> e. <work-request-status-code> f. <date-time> |

MIL-STD-3008 (TM)

5.2.3.4.3 Parts information. Table 11 provides data on replacement parts needed to complete maintenance actions, their costs, and the maintenance manhours cost. Parts tracking and cancellation data are included.

TABLE 11. Parts data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Part Requirements: a. File Input Action Code (AC) b. Task Number c. Identification Number d. NSN e. Part Number f. CAGE g. Suffix Identification Code (SFX CD) h. Quantity Requirement i. Quantity Issued j. NMCS Code k. Failure Code l. Storage Location Code m. Released by: 1) PID 2) Date/Time n. Cost o. Total Manhours Expended: 1) Direct 2) Indirect p. Total Manhours Cost: 1) Direct 2) Indirect q. Total Parts Cost | 1. <part-req> a. <file-input-ac> b. <taskno> c. <identno> d. <nsn> e. <partno> f. <cageno> g. <sfxcd> h. <qty-required> i. <qty-issued> j. <nmcs> k. <fail-code> l. <location> m. <released-by-data> 1) <pid> 2) <date-time> n. <part-cost> o. <manhours-expend> <manhours-expend type="direct"> <manhours-expend type="indirect"> p. <manhours-cost> <manhours-cost type="direct"> <manhours-cost type="indirect"> q. <total-parts-cost> |
| 2. Part Order Status: a. Order Date b. Order Received Date c. Approved Date d. Shipped Date e. Delivered Date f. Installed Date | 2. <part-order-status> a. <date-order> b. <date-order-received> c. <date-approved> d. <date-shipped> e. <date-delivered> f. <date-installed> |
| 3. Part Order Cancellation: a. Date b. Document Number c. NSN d. Part Number e. CAGE f. Reason for Cancellation | 3. <part-order-cancel> a. <date-time> b. <docno> c. <nsn> d. <partno> e. <cageno> f. <reason> |

5.2.3.4.4 Prescribed load list (PLL) inventory data. Table 12 provides information on unit maintenance repair parts that are demand supported, non-demand supported and specified initial stockage repair parts for newly introduced end items.

MIL-STD-3008 (TM)

TABLE 12. PLL inventory data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. NSN | 1. <nsn> |
| 2. Stock Code Data: a. Non-Stock (NS) b. Combat Stock (CS) c. Direct Support (DS) | 2. <stockcode> a. <stockcode code="non-stock"> b. <stockcode code="combat-stock"> c. <stockcode code="direct-support"> |
| 3. Unit of Issue (UI) | 3. <unit-of-issue> |
| 4. Quantity on Hand | 4. <qty-on-hand> |
| 5. Quantity Inventoried | 5. <qty-inventoried> |

5.2.3.4.5 Cost data. Cost data provide information on the costs for performing a maintenance function. Table 13 includes data on manhours, direct/indirect labor costs, parts cost and total maintenance cost.

TABLE 13. Cost data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Military Direct Labor: a. Manhours b. Total Manhours c. Cost d. Total Cost | 1. <labor-data status="military" type="direct"> a. <manhours-expend cumulative="no"> b. <manhours-expend cumulative="yes"> c. <manhours-cost cumulative="no"> d. <manhours-cost cumulative="yes"> |
| 2. Civilian Direct Labor: a. Manhours b. Total Manhours c. Cost d. Total Cost | 2. <labor-data status="civilian" type="direct"> a. <manhours-expend cumulative="no"> b. <manhours-expend cumulative="yes"> c. <manhours-cost cumulative="no"> d. <manhours-cost cumulative="yes"> |
| 3. Total Direct Labor Cost | 3. <total-cost> |
| 4. Military Indirect Labor: a. Manhours b. Total Manhours c. Cost d. Total Cost | 4. <labor-data status="military" type="indirect"> a. <manhours-expend cumulative="no"> b. <manhours-expend cumulative="yes"> c. <manhours-cost cumulative="no"> d. <manhours-cost cumulative="yes"> |
| 5. Civilian Indirect Labor: a. Manhours b. Total Manhours c. Cost d. Total Cost | 5. <labor-data status="civilian" type="indirect"> a. <manhours-expend cumulative="no"> b. <manhours-expend cumulative="yes"> c. <manhours-cost cumulative="no"> d. <manhours-cost cumulative="yes"> |
| 6. Indirect Labor Cost | 6. <total-cost> |
| 7. Repair Parts Cost | 7. <repair-cost-data> |
| 8. Cost of Transportation to Ship Equipment or Component to/from Repair Facility | 8. <transportation-cost> |
| 9. Cost of Inventory Management: a. National Inventory Control Point (NICP) b. Major Subordinate Command (MSC) c. PATS Contractor d. Other | 9. <inventory-cost-data> a. <transportation-cost holder="nicp"> b. <transportation-cost holder="msc"> c. <transportation-cost holder="pats"> d. <transportation-cost holder="other"> |
| 10. Cost of Software Maintenance | 10. <sw-maint-cost> |
| 11. Cost of Software Engineering Change | 11. <sw-engr-change-cost> |
| 12. Cost of Software Engineering Change Test and Evaluation | 12. <sw-engr-change-test-cost> |
| 13. Cost to Develop Modification | 13. <mod-develop-cost> |
| 14. Cost to Validate and Verify Modification | 14. <mod-validate-cost> |
| 15. SRA Overhead Cost | 15. <overhead-cost> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|-------------------------------|------------------------------|
| 16. Total Cost of Maintenance | 16. <total-cost> |

5.2.4 Fault data. Fault data provide information on a piece of equipment, component or module that has a deficiency or shortcoming. The fault is discovered during equipment operations, scheduled or unscheduled inspections and/or maintenance operations.

5.2.4.1 Environmental conditions data. Table 14 provides information on the environmental conditions that existed during equipment operations. Such conditions may have affected the equipment's performance, precipitated a deficiency, or caused a deficiency/failure. These conditions are also considered during performance assessment and diagnostic testing.

TABLE 14. Environmental conditions data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. Type Physical Environment: a. Mud b. Rain c. Fungus d. Sleet e. Snow f. Sand g. Wind h. Water: 1) Fresh Water 2) Salt Water | 1. <environment> a. <mud> b. <rain> c. <fungus> d. <sleet> e. <snow> f. <sand> g. <wind> h. <water> 1) <water type="fresh"> 2) <water type="salt"> |
| 2. Temperature | 2. <environment temperature="xx" temperature-scale="xx"> |
| 3. Humidity | 3. <environment humidity="xx"> |
| 4. Altitude | 4. <environment altitude="xx" altitude-units="xx"> |
| 5. Terrain | 5. <environment terrain="flat"> <environment terrain="hills"> <environment terrain="marsh"> <environment terrain="mountains"> |
| 6. Other | 6. <remarks> |

5.2.4.2 Operations/maintenance fault information. Table 15 provides information on faults and deficiencies discovered during equipment operation, during diagnostic testing, during the conduct of scheduled/unscheduled technical inspections, and during performance of maintenance at all levels. The information includes when faults were found, how faults were found, how faults were recognized, and the effects on the operation or mission. It also covers data inputs from maintenance services and other technical inspections such as aircraft transfer or acceptance inspections.

TABLE 15. Operations/maintenance fault data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Date | 1. <date-time> |
| 2. Type Inspection | 2. <insp-type> |
| 3. System Status | 3. <status-symbol> |
| 4. System Code | 4. <system-code> |
| 5. Diagnostic Test: a. Number b. Name | 5. <diag-test-data> a. <item-no> b. <diag-test> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|--|
| c. Description d. Unit Measurement e. Reading: 1) LCF1 2) LCF2 3) TTI 4) Operating Hours | c. <desc> d. <unit-meas> e. <current-cumul-reading> 1) <current-cumul-reading type="lcf1"> 2) <current-cumul-reading type="lcf2"> 3) <current-cumul-reading type="tti"> 4) <current-cumul-reading type="op-hours"> |
| 6. Fault Number | 6. <fault-code> |
| 7. Failure Code | 7. <fail-code> |
| 8. Fault Time | 8. <time> |
| 9. Fault Remarks | 9. <remarks> |
| 10. Aircraft Hours | 10. <aircraft-hours> |
| 11. When Discovered Code | 11. <fail-when-discov-code> |
| 12. How Recognized Code | 12. <how-recognized-code> |
| 13. Malfunction Effect Code | 13. <malfunction-effect-code> |
| 14. Delay: a. Work Order Number b. Manhours: 1) Direct 2) Indirect c. Requisition Number d. Part Number e. Serial Number | 14. <delay-info> a. <won> b. <manhours-proj> 1) <manhours-proj type="direct"> 2) <manhours-proj type="indirect"> c. <reqno> d. <partno> e. <serialno> |
| 15. Work Unit Code (WUC) | 15. <wuc> |

5.2.4.3 Fault correcting information. Table 16 provides information on when and how a fault, deficiency or condition has been corrected. It includes information on the corrective action taken, level of maintenance performed and manhours required.

TABLE 16. Fault correcting data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Date-Time | 1. <date-time> |
| 2. Aircraft Hours | 2. <aircraft-hours> |
| 3. Rounds | 3. <rounds> |
| 4. Action Code | 4. <action-code> |
| 5. Work Unit Code (WUC) | 5. <wuc> |
| 6. Action | 6. <action> |
| 7. PID | 7. <pid> |
| 8. Level of Maintenance | 8. <maintlvl> |
| 9. Manhours: a. Direct b. Indirect | 9. <manhours-expend> a. <manhours-expend type="direct"> b. <manhours-expend type="indirect"> |
| 10. Technical Inspector Data: a. PID b. Manhours: 1) Direct 2) Indirect | 10. <tech-inspector-data> a. <pid> b. <manhours-expend> 1) <manhours-expend type="direct"> 2) <manhours-expend type="indirect"> |

5.2.4.4 Related maintenance actions data. Table 17 documents additional related maintenance actions or work that was necessary and accomplished while clearing major faults or deficiencies, and reported conditions.

MIL-STD-3008 (TM)

TABLE 17. Related maintenance actions data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Date-Time | 1. <date-time> |
| 2. Status | 2. <status-symbol> |
| 2. Serial Number | 3. <serialno> |
| 4. System Code | 4. <system-code> |
| 5. Fault Date | 5. <date-fault> |
| 6. Fault Number | 6. <fault-code> |
| 7. Failure Code | 7. <fail-code> |
| 8. Fault | 8. <fault> |
| 9. Related Maintenance Actions: a. Condition Status b. Related Maintenance Actions c. Corrective Action d. Level of Maintenance e. Maintenance Manhours (MMH): 1) Direct 2) Indirect | 9. <maint-action-record> a. <status-symbol> b. <action> c. <corr-action> d. <maintlvl> e. <manhours-expend> 1) <manhours-expend type="direct"> 2) <manhours-expend type="indirect"> |

5.2.4.5 Uncorrected fault data. Table 18 provides data on uncorrected faults and deferred maintenance actions (including the reason for deferral) on aviation/non-aviation equipment, associated equipment and mission related equipment.

TABLE 18. Uncorrected fault data

| Data Element Title | Data Element Name/Attributes |
|---------------------|------------------------------|
| 1. Fault Date | 1. <date-fault> |
| 2. Fault Number | 2. <fault-code> |
| 3. Failure Code | 3. <fail-code> |
| 4. Fault | 4. <fault> |
| 5. Reason for Delay | 5. <remarks> |

5.2.4.6 Not mission capable data. Not mission capable (NMC) is a materiel condition status that indicates a piece of equipment cannot perform any of its assigned combat missions. NMC is divided into not mission capable maintenance (NMCM) or not mission capable supply (NMCS). Table 19 provides necessary data for tracking not mission capable equipment.

TABLE 19. Not mission capable data

| Data Element Title | Data Element Name/Attributes |
|---------------------------------------|------------------------------|
| 1. Not Available Reason (NAR) Code | 1. <date-nar-code> |
| 2. Original Date NMC | 2. <date-nmc-orig> |
| 3. Organization NMC Date | 3. <date-nmc-org> |
| 4. Support Level Maintenance WOR Date | 4. <date-down-for-support> |
| 5. Status/Date | 5. <date-of-status> |
| 6. Remarks | 6. <remarks> |
| 7. Support WON | 7. <won> |
| 8. Document Number | 8. <docno> |
| 9. NSN | 9. <nsn> |
| 10. Part Number | 10. <partno> |
| 11. CAGE | 11. <cageno> |
| 12. Shipment Information: | 12. <ship-status-info> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--------------------|------------------------------|
| a. Status | a. <ship-status> |
| b. Date | b. <date-for-shipment> |
| 13. Ship Date | 13. <date-shipped> |
| 14. Deficiency | 14. <deficiency> |

5.2.5 IETM data. IETM data is used to provide timely information on maintenance procedures, diagnostics, fault isolation, fault descriptions, parts data, and data combinations thereof.

5.2.5.1 IETM fault result data. Table 20 covers fault diagnostics/troubleshooting data, including parts information, and is filled in accordance with a specified IETM.

TABLE 20. IETM fault result data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Fault: a. System/Equipment b. Symptom c. Description d. Fault Code e. Date Discovered f. How Recognized g. Failure Mode h. Effect i. Fault Isolated j. Fault Corrected k. Date Corrected | 1. <item-fault-data> a. <system-code> b. <symptom> c. <desc> d. <fault-code> e. <date-fault> f. <how-recognized-code> g. <fail-code> h. <effect> i. <fault-isolated> j. <fault-corrected> k. <date-fault-corrected> |
| 2. Test/Troubleshooting: a. Date of Test/Troubleshoot b. Time of Test/Troubleshoot c. Test/Troubleshoot Type d. Test/Troubleshoot Name e. Test/Troubleshoot Description f. Mode g. Protocol h. Parameters i. Measurement j. Reading | 2. <item-test-trouble-data> a. <date-completed> b. <time-completed> c. <type> d. <name> e. <desc> f. <mode> g. <protocol> h. <parameters> i. <measurement> j. <current-cumul-reading> |
| 3. Environment Data | 3. <environment> |
| 4. Mission Status: a. Status b. Capability 1) Full 2) Reduced 3) None | 4. <item-mission-status-data> a. <status-symbol> b. <mission-capability> 1) <mission-capability capability="full"> 2) <mission-capability capability="reduced"> 3) <mission-capability capability="none"> |
| 5. Technical Manual Data: a. Publication Number b. Date c. Version | 5. <reference> a. <tmnoref> b. <date> c. <revision> |

5.2.5.2 IETM maintenance reporting data. Table 21 covers data resulting from maintenance actions performed, including parts information, and is filled in accordance with a specified IETM.

MIL-STD-3008 (TM)

TABLE 21. IETM maintenance reporting data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Maintenance Action Performed: a. System/Equipment/Component b. Type Action c. Priority d. Date Performed e. Completed f. Time Started g. Time Completed | 1. <maint-performed> a. <system-code> b. <action> c. <priority> d. <date-performed> e. <date-completed> f. <time-started> g. <time-completed> |
| 2. Status | 2. <status-symbol> |
| 3. Parts Data: a. Parts Ordered: 1) Part Number 2) Part Name 3) Source, Maintenance, Recoverability (SMR) Code 4) CAGE Code 5) NSN 6) NIIN 7) Quantity 8) Date 9) Time b. Parts Received: 1) Part Number 2) Part Name 3) SMR Code 4) CAGE Code 5) NSN 6) NIIN 7) Quantity 8) Date 9) Time | 3. <ietm-parts-data> a. <parts-ordered-info> 1) <partno> 2) <nomen> 3) <smrcode> 4) <cageno> 5) <nsn> 6) <niin> 7) <qty> 8) <date> 9) <time> b. <parts-received-info> 1) <partno> 2) <nomen> 3) <smrcode> 4) <cageno> 5) <nsn> 6) <niin> 7) <qty> 8) <date> 9) <time> |
| 4. Parts Removed | 4. <parts-removed> |
| 5. Parts Installed | 5. <parts-installed> |
| 6. Returned to Stock a. Reason Condition Code b. Comment | 6. <part-returned-info> a. <code> b. <remarks> |
| 7. Technical Manual Data: a. Publication Number b. Date c. Version | 7. <reference> a. <tmnoref> b. <date> d. <revision> |

5.2.6 Army oil analysis program data. The Army Oil Analysis Program (AOAP) is a diagnostic tool that provides information on equipment reliability and readiness. The data is analyzed to detect early failures and to lower costs by precluding catastrophic equipment failures.

5.2.6.1 Oil analysis request data. Table 22 covers oil analysis request data that identifies the equipment from which the oil sample was taken, provides an operating and servicing history of the equipment, and identifies discrepancies/malfunctions when applicable. This data is furnished by the operating and maintenance activities to the Army Oil Analysis Program laboratories.

MIL-STD-3008 (TM)

TABLE 22. Oil analysis request data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Destination Information | 1. <destination> |
| 2. From | 2. <unit-activity> |
| 3. Nomenclature | 3. <nomen> |
| 4. Model Number | 4. <modelno> |
| 5. Serial Number | 5. <serialno> |
| 6. End Item Model Number | 6. <end-item-modelno> |
| 7. Hull Number | 7. <hullno> |
| 8. End Item Serial Number | 8. <end-item-serialno> |
| 9. EIC | 9. <eic> |
| 10. Date Sample Taken | 10. <date-sample-taken> |
| 11. Hours Since Overhaul | 11. <hours-since-overhaul> |
| 12. Miles/Kilometers Since Overhaul | 12. <miles-kilometers-since-overhaul> |
| 13. Hours Since Oil Change | 13. <hours-since-oil-change> |
| 14. Miles/Kilometers Since Oil Change | 14. <miles-kilometers-since-oil-change> |
| 15. Reason for Sample | 15. <reason> |
| 16. Quantity Oil Added Since Last Sample | 16. <qty-oil-added> |
| 17. Action Taken | 17. <action> |
| 18. Discrepant Item | 18. <discrepant-item> |
| 19. How Malfunctioned | 19. <how-malfunctioned> |
| 20. How Found | 20. <how-found> |
| 21. How Taken | 21. <how-taken> |
| 22. Sample Temperature | 22. <temp> |
| 23. Type Oil | 23. <oil-grade> |
| 24. Equipment Usage Information | 24. <eqp-usage-info> |

5.2.6.2 Oil analysis and recommendation feedback data. Table 23 provides feedback data from the oil analysis laboratory of equipment/component oil condition as a result of applying quantitative measurement of metal and other contaminants in the sample.

TABLE 23. Oil analysis and recommendation feedback data

| Data Element Title | Data Element Name/Attributes |
|--|-------------------------------------|
| 1. Destination Information | 1. <destination> |
| 2. From | 2. <unit-activity> |
| 3. Lab Recommendation Number | 3. <lab-recommend-no> |
| 4. End Item Model Number | 4. <end-item-modelno> |
| 5. End Item Serial Number | 5. <end-item-serialno> |
| 6. Component Type | 6. <comp -type> |
| 7. Component Serial Number | 7. <comp -serialno> |
| 8. Component Hours | 8. <comp -hours> |
| 9. Component Miles/Kilometers | 9. <comp -miles-kilometers> |
| 10. Recommendation and Reason for Action | 10. <reason> |
| 11. Initiator Name | 11. <initiator-name> |
| 12. Initiator Title | 12. <initiator-title> |
| 13. Date | 13. <date> |
| 14. QDR Number | 14. <qdrno> |
| 15. Feedback (Diagnostics and Discrepancies) | 15. <remarks> |

MIL-STD-3008 (TM)

5.2.7 Quality assurance. Quality Assurance is pertinent to Category I and Category II Deficiency Reports on equipment, aircraft and aircraft associated equipment. It includes data on faults, failures, and problems in design, operation, maintenance, manufacture, and overhaul or rebuild of aviation end items and components.

5.2.7.1 Product quality deficiency data. Product quality deficiency is a nonconforming condition that limits or prevents the product from fulfilling its purpose. Table 24 includes data on defects in design, specification, material, manufacture, overhaul, rebuild and workmanship.

TABLE 24. Product quality deficiency data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Category I/II Deficiency Data: | 1. <category-I-deficiency> <category-II-deficiency> |
| a. Date of Report | a. <date-time> |
| b. Unit | b. <unit-name> |
| c. Location | c. <location> |
| d. Subject | d. <subject> |
| e. Point of Contact: | e. <name> |
| f. Report Control Number: | f. <cntrlno> |
| g. Date Deficiency Discovered: | g. <date-fault> |
| h. Shipper, City, State, Zip | h. <shipper-data> <name> <city> <state> <zip> |
| i. Serial/Lot/Batch Numbers: | i. <serialno> <lotno> <batchno> |
| j. Item New | j. <item-new> |
| k. Repaired/Overhauled: | k. <item-repaired> |
| l. Date RCVD, MFRD, Repaired, Overhauled or Rebuilt: | l. <date-received> <date-repaired> |
| m. Operating Time at Failure: | m. <op-time-at-failure> |
| 1) Time Since New (TSN) | 1) <op-time-at-failure units="time -since-new"> |
| 2) Time Since Overhaul (TSO) | 2) <op-time-at-failure units="time -since-overhaul"> |
| 3) Miles | 3) <op-time-at-failure units="miles"> |
| 4) Kilometers | 4) <op-time-at-failure units="kilometers"> |
| 5) Cycles | 5) <op-time-at-failure units="cycles"> |
| 6) Hours | 6) <op-time-at-failure units="hours"> |
| 7) EFC Rounds | 7) <op-time-at-failure units="efc-rounds"> |
| 8) Date Vehicle First Used | 8) <op-time-at-failure units="date-vehicle-first-used"> |
| n. Government Furnished Equipment | n. <gfe> |
| o. Quantity Received | o. <qty-received> |
| p. Quantity Inspected | p. <qty-inspected> |
| q. Quantity Deficient | q. <qty-deficient> |
| r. Quantity In Stock | r. <qty-on-hand> |
| s. Deficient Item Works On/With: | s. <deficient-item-with-end-item> |
| 1) Type, Model, Series | 1) <make - model-type> |
| 2) End Item Serial Number | 2) <end-item-serialno> |
| 3) NSN | 3) <nsn> |
| t. Deficient Item Next Higher Assembly: | t. <deficient-item-with-nha> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---------------------------------------|-------------------------------------|
| 1) NSN | 1) <nha-nsn> |
| 2) Nomenclature | 2) <nha-nomen> |
| 3) Part Number | 3) <nha-partno> |
| 4) Serial Number | 4) <nha-serial-no> |
| 5) Lot Number | 5) <nha-lotno> |
| u. Unit Cost | u. <unit-cost> |
| v. Estimated Repair Cost | v. <est-repair-cost> |
| w. Items Under Warranty | w. <in-warranty> |
| x. Action/Disposition | x. <deficiency-disposition> |
| y. Deficiency Summary: | y. <deficiency-summary> |
| 1) Utilization Code | 1) <utiliz-code> |
| 2) When Fault Was Discovered | 2) <date-fault> |
| 3) How Recognized | 3) <how-recognized-code> |
| 4) Malfunction Effect on Mission | 4) <malfunction-effect-code> |
| 5) TM Number: | 5) <reference> |
| b) TM Date | a) <date> |
| c) Page/Work Package Number | b) <wpref> |
| d) Figure Identification | c) <figref> |
| e) Item Number | d) <itemref> |
| z. Total Aircraft Hours | z. <op-hours> |
| aa. Time Since Installation | aa. <hours-since-install> |
| bb. Failure Code | bb. <fail-code> |
| cc. Circumstances Prior to Difficulty | cc. <circumstanc-before-difficulty> |
| dd. Description of Difficulty | dd. <desc> |
| ee. Cause | ee. <reason> |
| ff. Action Taken | ff. <action> |
| gg. Recommendations | gg. <recommendation> |
| hh. Location of Deficient Material | hh. <deficient-material-location> |

5.2.8 Ammunition data requirements. Ammunition data shall be provided. Ammunition data shall be developed and recorded using the relational tables described in the following paragraphs.

5.2.8.1 Ammunition accounting data. Table 25, in conjunction with Tables 1 through 3, provides inventory accountability on ammunition, explosive materiel, guided missiles and serial numbered components. It includes changes to serial numbered components as they are entered into the inventory.

TABLE 25. Ammunition accounting data

| Data Element Title | Data Element Name/Attributes |
|--|------------------------------|
| 1. Quantity in Lot | 1. <qty-in-lot> |
| 2. Net Quantity | 2. <qty> |
| 3. Packing of Lot | 3. <packing-of-lot> |
| 4. Drawing Number | 4. <dwgno> |
| 5. Revision Number | 5. <revision> |
| 6. Specification & Revision | 6. <specno> |
| 7. Date Started | 7. <date-start> |
| 8. Date Completed | 8. <date-end> |
| 9. Date Inspected | 9. <date-inspected> |
| 10. Quantity Inspected | 10. <qty-inspected> |
| 11. Quantity Defective | 11. <qty-deficient> |
| 12. Condition | 12. <condition> |
| 13. Estimated Repair/Disposal/Maintenance Cost | 13. <est-repair-cost> |
| 14. Pull Date | 14. <date-ammo-pulled> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|----------------------------------|------------------------------|
| 15. Line | 15. <line> |
| 16. Zone or Charge Number | 16. <zone> |
| 17. Charge Weight | 17. <charge-weight> |
| 18. Index of Powder | 18. <index-of-powder> |
| 19. Explosive Weight per Package | 19. <explos-weight-per-pack> |
| 20. Expected Muzzle Velocity | 20. <exp-muzzle-velocity> |
| 21. Expected Pressure | 21. <exp-pressure> |
| 22. Shell Weight | 22. <shell-weight> |
| 23. Number of Test Samples | 23. <no-of-samples> |
| 24. Sent to | 24. <sent-to-data> |
| 25. Date of Shipment | 25. <date-shipped> |
| 26. Mode of Shipment | 26. <mode-of-shipment> |
| 27. Component Information: | 27. <component-data> |
| a. Name | a. <nomen> |
| b. Serial Number | b. <serialno> |
| c. Drawing Number | c. <dwgno> |
| d. Revision Letter | d. <revision> |
| e. Engineering Orders (EO) | e. <enrg-orders> |
| f. Model Number | f. <modelno> |
| g. Manufacture | g. <manuf-name> |
| h. Date Manufactured | h. <date-of-manuf> |
| i. Lot Number | i. <lotno> |
| j. Quantity | j. <qty> |

5.2.8.2 Ammunition condition data. Table 26 provides information on unserviceable and permanently suspended ammunition items other than special weapons and is predicated on periodic inspection, receipt inspection, safety-in-storage inspection, or special inspection. This information is pertinent to Ammunition Inspector, Quality Assurance and Surveillance Personnel.

TABLE 26. Ammunition condition data

| Data Element Title | Data Element Name/Attributes |
|-------------------------------|---|
| 1. Destination Data | 1. <destination> |
| 2. From | 2. <unit-activity> |
| 3. Commodity: | 3. <commodity-type> |
| a. Chemical | a. <commodity-type type="chemical"> |
| b. Guided Missile | b. <commodity-type type="guided-missile"> |
| c. Conventional | c. <commodity-type type="conventional"> |
| 4. Equipment Installed on: | 4. <eqp-installed-on-data> |
| a. Nomenclature | a. <nomen> |
| b. Part Number | b. <partno> |
| c. CAGE | c. <cageno> |
| d. NSN | d. <nsn> |
| e. Serial Number | e. <serialno> |
| f. Lot Number | f. <lotno> |
| g. Date of Manufacture | g. <date-of-manuf> |
| h. Quantity in Lot | h. <qty-in-lot> |
| 5. Quantity Inspected | 5. <qty-inspected> |
| 6. Quantity Defective | 6. <qty-deficient> |
| 7. Present Condition Code | 7. <condition-code> |
| 8. ECON Repairable | 8. <econ-repairable> |
| 9. Use (War Reserve/Training) | 9. <ammo-use> |
| 10. Reason for ACR Initiation | 10. <reason> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|-----------------------------|------------------------------|
| 11. Defects Encountered | 11. <defects> |
| 12. Owner/Account | 12. <owner-account> |
| 13. Cause | 13. <reason> |
| 14. Action | 14. <action> |
| 15. Disposition | 15. <disposition> |
| 16. Originator PID | 16. <originator-pid> |
| 17. Releasing Authority PID | 17. <releasing-authy-pid> |

5.2.8.3 Ammunition peculiar equipment utilization. Table 27 provides information on Ammunition Peculiar Equipment (APE) that is on hand, its operational status, and verification of equipment need and distribution.

TABLE 27. Ammunition peculiar equipment utilization data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Destination Information | 1. <destination> |
| 2. From | 2. <unit-activity> |
| 3. Number of Pieces of APE on Hand | 3. <qty-on-hand> |
| 4. Utilization Code | 4. <utiliz-code> |
| 5. APE Management Number (AMN) | 5. <amn> |
| 6. Nomenclature | 6. <nomen> |
| 7. Serial Number | 7. <serialno> |
| 8. Hours of Use | 8. <hours> |
| 9. Rounds | 9. <rounds> |
| 10. Status Code: a. First Position b. Second Position | 10. <position-status> a. <position-status first="xx"> b. <position-status second="xx"> |
| 10. Remarks | 10. <remarks> |

5.2.9 Parts requisitioning data requirements. Parts requisitioning data for the weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Parts requisitioning data shall be developed and recorded using the relational tables described in the following paragraphs.

5.2.9.1 General Requisition data. Table 28 provides requisition information pertinent to document identification and tracking data, item description and supplementary information such as priority and required delivery date.

TABLE 28. General requisition data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Document Identifier Code (DIC) | 1. <dic> |
| 2. Routing Identifier Code (RIC) | 2. <ric> |
| 3. Media and Status Code (M&S) | 3. <media-status-code> |
| 4. NSN | 4. <nsn> |
| 5. Part Number | 5. <partno> |
| 6. CAGE | 6. <cageno> |
| 7. Unit of Issue | 7. <unit-of-issue> |
| 8. Quantity | 8. <qty> |
| 9. Document Number: a. Service b. Requisitioner | 9. <document-req-data> a. <service> b. <unit-activity> |

MIL-STD-3008 (TM)

| | |
|-----------------------------------|--|
| c. Date | c. <date> |
| d. Serial Number | d. <serialno> |
| 10. Demand Code | 10. <demand-code> |
| 11. Supplementary Address | 11. <supplementary> <unit-activity> |
| 12. Signal Code | 12. <signal-code> |
| 13. Fund Code | 13. <fund-code> |
| 14. Distribution Code | 14. <distrib-code> |
| 15. Project Code | 15. <project-code> |
| 16. Priority Designator | 16. <priority> |
| 17. Required Delivery Date (RDD) | 17. <date-required> |
| 18. Advice Code | 18. <advice-code> |
| 19. Routing Identifier Code (RIC) | 19. <ric> |
| 20. Ownership Code | 20. <ownership-code> |
| 21. Condition Code | 21. <condition-code> |

5.2.10 Technical manual data. This section provides information on technical manual usage that includes maintenance reporting data, management data, system feedback data, and IETM analysis and parts requirements data.

5.2.10.1 Technical manual (non-IETM) deficiency reporting. Table 29 provides feedback information on technical manual deficiencies and/or recommended changes to a specified technical manual.

TABLE 29. Technical manual deficiency data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. TM/ETM/IETM Data: a. Reference 1) Publication Number 2) Date 3) Version | 1. <tm-data> a. <reference> 1) <tmnoref> 2) <date> 3) <revision> |
| 2. Submitter/User: a. Name b. Address c. Unit/Organization d. Telephone e. E-Mail Address f. FAX Number | 2. <tm-user-data> a. <name> b. <address> c. <unit-name> d. <voice-phone> e. <e-mail> f. <fax> |
| 3. Error Report: a. Work Package Title b. Work Package Number c. Page Number d. Paragraph Number e. Paragraph/Task/Subtask Title f. Date Discovered g. Time h. Remarks | 3. <tm-error-report> a. <wptitle> b. <wpref> c. <pageref> d. <pararef> e. <referenced-title> f. <date-discovered> g. <time> h. <remarks> |
| 4. Change Request: a. Work Package Title b. Work Package Number c. Page Number d. Paragraph Number e. Paragraph/Task/Subtask Title | 4. <tm-change-request> a. <wptitle> b. <wpref> c. <pageref> d. <pararef> e. <referenced-title> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--------------------|------------------------------|
| f. Date Discovered | f. <date-discovered> |
| g. Time | g. <time> |
| h. Remarks | h. <remarks> |

5.2.10.2 IETM deficiency reporting. Table 30 provides feedback information on IETM deficiencies and/or recommended changes to a specified IETM.

TABLE 30. IETM deficiency data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. TM/ETM/IETM Data: a. Reference 1) Publication Number 2) Date 3) Version | 1. <tm-data> a. <reference> 1) <tmnoref> 2) <date> 3) <revision> |
| 2. Submitter/User: a. Name b. Address c. Unit/Organization d. Telephone e. E-Mail Address f. FAX Number | 2. <tm-user-data> a. <name> b. <address> c. <unit-name> d. <voice-phone> e. <e-mail> f. <fax> |
| 3. Error Report: a. Subject/Paragraph/Task/Subtask/Other Title b. Date Discovered c. Time d. Remarks | 3. <ietm-error-report> a. <referenced-title> b. <date-discovered> c. <time> d. <remarks> |
| 4. Change Request: a. Subject/Paragraph/Task/Subtask/Other Title b. Date Discovered c. Time d. Remarks | 4. <ietm-change-request> a. <referenced-title> b. <date-discovered> c. <time> d. <remarks> |

5.3 Aviation data requirements. Aviation data requirements provide necessary information to manage operations and maintenance, control the use, and report warranty actions and deficiencies on Army aircraft and aviation-associated equipment. Aviation-associated equipment is construed to mean related mission equipment such as armament systems, electronic systems, aircraft training devices, aircraft simulators and life support equipment. Cross functional data requirements pertinent to equipment identification, personnel, inspections, fault and costing data are addressed in Section 5.2.

5.3.1 Operational data requirements. Operational data about the weapon systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Operational data shall be developed and recorded using the relational tables described in the following paragraphs.

5.3.1.1 Flight data. Table 31 contains data that provide an historical account of daily flight operations (including aircraft simulators). The information is used for aircrew and maintenance considerations.

MIL-STD-3008 (TM)

TABLE 31. Flight data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Date | 1. <date-time> |
| 2. Flight Number | 2. <flightno> |
| 3. From | 3. <from-info> <location> <time> |
| 4. Interim | 4. <interim-info> <location> <arrival-time> <departure-time> |
| 5. To | 5. <to-info> <location> <time> |
| 6. Hours for the Flight | 6. <flight-hours hours -current="xx"> |
| 7. Hours for the Mission Day | 7. <flight-hours hours -for-mission-day="xx"> |
| 8. Total Flight Hours | 8. <flight-hours hours -total="xx"> |
| 9. Landings for Flight | 9. <number-of-landings for-flight="xx"> |
| 10. Landings for Mission Day | 10. <number-of-landings type="std" for-mission-day="xx"> |
| 11. Total Landings | 11. <number-of-landings type="std" total="xx"> |
| 12. Auto Rotations for Flight | 12. <number-of-landings type="auto" total="xx"> |
| 13. Auto Rotations for Mission Day | 13. <number-of-landings type="auto" for-mission-day="xx"> |
| 14. Total Auto Rotations | 14. <number-of-landings type="auto" for-flight="xx"> |
| 15. Auxiliary Power Unit (APU) Starts/Hours: a. Hours Current b. Hours for Mission Day c. Hours Total d. Starts Last Mission Day e. Starts for Mission Day f. Starts Total g. Meter Hours Current h. Meter Hours Total | 15. <apu-starts -hours> a. <apu-starts -hours hours -current="xx"> b. <apu-starts -hours hours -for-mission-day="xx"> c. <apu-starts -hours hours -total="xx"> d. <apu-starts -hours starts -last-mission-day="xx"> e. <apu-starts -hours starts -for-mission-day="xx"> f. <apu-starts -hours starts -total="xx"> g. <apu-starts -hours meter-hours -current="xx"> h. <apu-starts -hours meter-hours -total="xx"> |
| 16. Engine Starts: a. For Flight: 1) Engine Number 2) Starts b. For Mission Day: 1) Engine Number 2) Starts c. Engine Total: 1) Engine Number 2) Starts d. HIT Check: 1) Engine Number 2) Deviation | 16. <eng-start-data> a. <eng-start-data data-for="flight"> 3) <eng-no> 4) <eng-starts> b. <eng-start-data data-for="mission-day"> 3) <eng-no> 4) <eng-starts> c. <eng-start-data data-for="totals"> 3) <eng-no> 4) <eng-starts> d. <hit-check-data> 3) <eng-no> 4) <deviation> |
| 17. Mission ID STD | 17. <mission-id-std> |
| 18. Landing Gear Cycles: a. Flight b. Mission Day c. Total Cycles | 18. <landing-gear-cycles> a. <landing-gear-cycles for-flight="xx"> b. <landing-gear-cycles for-mission-day="xx"> c. <landing-gear-cycles total="xx"> |
| 19. Hot Section Factor (HSF) Counts: | 19. <hsf-counts> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--------------------|--|
| a. Flight | a. <hsf-counts for-flight="xx"> |
| b. Mission Day | b. <hsf-counts for-mission-day="xx"> |
| b. Total | c. <hsf-counts total="xx"> |
| 21. Rounds Fired: | 6. <rounds-fired-data> |
| a. Ammunition Type | a. <ammo-type> |
| b. Flight | b. <rounds-fired-data rounds-fired-for-flight="xx"> |
| c. Mission Day | c. <rounds-fired-data rounds-fired-for-mission-day="xx"> |
| d. Total | d. <rounds-fired-data rounds-fired-total="xx"> |

5.3.1.2 Flight manual exceedance data. Table 32 provides information on flight operations that have exceeded the limitation criteria for the airframe and/or one or more of its systems as stipulated by the governing flight manual. Exceedance data can include but is not limited to acceleration, overspeed, vibration, gross weight, etc.

TABLE 32. Flight manual exceedance data

| Data Element Title | Data Element Name/Attributes |
|---------------------------------|------------------------------|
| 1. Date | 1. <date-time> |
| 2. Code | 2. <code> |
| 3. Parameter | 3. <parameter> |
| 4. Value | 4. <value> |
| 5. Duration | 5. <duration> |
| 6. Number Of Activations/Events | 6. <number-of-events> |
| 7. Remarks | 7. <remarks> |

5.3.1.3 System status data. Table 33 provides data on aircraft and aviation associated equipment condition status. The data include the most serious uncorrected faults for the aircraft and its mission related systems.

TABLE 33. System status data

| Data Element Title | Data Element Name/Attributes |
|----------------------|--|
| 1. Date | 1. <date-time> |
| 2. Aircraft Status | 2. <system-status status-for="aircraft"> |
| 3. Armament Status | 3. <system-status status-for="armament"> |
| 4. Electronic Status | 4. <system-status status-for="electronic"> |
| 5. Other | 5. <system-status status-for="other"> |
| 6. Status | 6. <status-symbol> |

5.3.1.4 Armament information. Armament information provides an historical account of the aircraft's armament system, both from operational and maintenance perspectives. Such considerations as accuracy, reliability and safety are inclusive for complete data inputs.

5.3.1.4.1 Armament system data. Table 34 provides data on rounds fired, maintenance actions and component replacement during the service life of the armament systems installed on the aircraft.

MIL-STD-3008 (TM)

TABLE 34. Armament system data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Date Fired | 1. <date-fired> |
| 2. Equipment Operating Time | 2. <op-hours> |
| 3. Cannon Model Number | 3. <modelno> |
| 4. Serial Number Cannon Tube | 4. <serialno> |
| 5. Rounds Fired: a. Type Ammunition b. Flight c. Mission Day d. Total | 5. <rounds-fired-data> a. <ammo-type> b. <rounds-fired-data rounds-fired-for-flight="xx"> c. <rounds-fired-data rounds-fired-for-mission-day="xx"> d. <rounds-fired-data rounds-fired-total="xx"> |
| 6. Laser Pulses: a. Flight b. Mission Day c. Total | 6. <laser-pulses-data> a. <laser-pulses-data laser-pulses-for-flight="xx"> b. <laser-pulses-data laser-pulses-for mission-day="xx"> c. <laser-pulses-data laser-pulses-total="xx"> |
| 7. Remarks | 7. <remarks> |

5.3.1.4.2 Armament system sighting data. Table 35 provides information on data constants, bore sight harmonization computer data and other sighting information for armament subsystem assemblies installed on aircraft.

TABLE 35. Armament system sighting data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Thumb Wheel Setting | 1. <thumbwheel-setting> |
| 2. Correctors: a. Equipment Type b. Milliradian: 1) Date 2) Elevation 3) Rate Pitch 4) Yaw 5) Roll 6) Azimuth | 2. <correctors-data> a. <type> b. <milliradian-data> 1) <date> 2) <elevation> 3) <rate-pitch> 4) <yaw> 5) <roll> 6) <azimuth> |
| 3. Data Constants | 3. <data-constants> |
| 4. Mast Mounted Sight Components Serial Number | 4. <serialno> |

5.3.2 Maintenance data requirements. Maintenance data about the weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Maintenance data shall be developed and recorded using the relational tables described in the following paragraphs.

5.3.2.1 Component maintenance data. Component maintenance data cover aircraft and associated equipment items that have been selected by the Army Materiel Command for the accumulation and reporting of maintenance data. These reportable components are classified as Time Change (TC); Time Between Overhaul (TBO); Retirement Life Component, Replacement Component (RC); and Condition Change (CC) Items.

MIL-STD-3008 (TM)

5.3.2.1.1 Component data. Table 36 provides data for tracking component usage and failure codes.

TABLE 36. Component data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. Control Number | 1. <cntrlno> |
| 2. Number of Previous Overhauls | 2. <no-previous-overhauls> |
| 3. Time Since Last Installed (Hours) | 3. <hours-since-install> |
| 4. Time Since New (Hours) | 4. <hours-since-new> |
| 5. Time Since Overhaul (Hours) | 5. <hours-since-overhaul> |
| 6. Failure Code | 6. <fail-code> |
| 7. Position | 7. <eng-position> |
| 8. Hot Section Factor (HSF) Counts | 8. <hsf-counts> |
| 9. Meter Hours | 9. <meter-hours> |
| 10. Work Unit Code (WUC) | 10. <wuc> |
| 11. Component Cumulative Counts/Hours: a. LCF 1 b. LCF 2 c. TTI d. Total Operating Hours | 11. <current-cumul-reading> a. <current-cumul-reading type="lcf1" cumulative="yes"> b. <current-cumul-reading type="lcf2" cumulative="yes"> c. <current-cumul-reading type="tti" cumulative="yes"> d. <current-cumul-reading type="op-hours" cumulative="yes"> |
| 12. APU Starts Since New (SSN) | 12. <apu-starts -hours starts -since-new="xx"> |
| 13. APU Hours | 13. <apu-starts -hours hours -total="xx"> |
| 14. APU Starts Since Overhaul (SSO) | 14. <apu-starts -hours starts -since-overhaul="xx"> |
| 15. Software Version | 15. <sw-version> |

5.3.2.1.2 Removal data. Table 37 provides information on the aircraft, component or assembly from which the reportable item was removed.

TABLE 37. Removal data

| Data Element Title | Data Element Name/Attributes |
|------------------------------------|--|
| 1. Removed From (Nomenclature NHA) | 1. <nha-nomen> |
| 2. NSN (NHA) | 2. <nha-nsn> |
| 3. Part Number (NHA) | 3. <nha-partno> <cageno> |
| 4. Serial Number (NHA) | 4. <nha-serialno> |
| 5. Hours (NHA) | 5. <op-hours source="nha"> |
| 6. NHA Cumulative Counts/Hours | 6. <current-cumul-reading> |
| 7. APU Start Meter | 7. <apu-starts -hours meter-counts -at-removal="xx"> |
| 8. APU Hour Meter | 8. <apu-starts -hours meter-hours -at-removal="xx"> |
| 9. History Recorder Serial Number | 9. <history-recorder-serialno> |
| 10. History Recorder Reading | 10. <current-cumul-reading> |
| 11. Aircraft Model | 11. <acft-modelno> |
| 12. Aircraft Serial Number | 12. <acft-serialno> |
| 13. Maintenance Level | 13. <maintlvl> |
| 14. Date Removed | 14. <date-removed> |
| 15. Manhours to Remove | 15. <manhours-expend> |
| 16. Malfunction Code | 16. <malfunction-effect-code> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--------------------------|---------------------------------|
| 17. When Discovered Code | 17. <fail-when-discovered-code> |
| 18. Remarks | 18. <remarks> |

5.3.2.1.3 Repair/overhaul/gain data. Table 38 provides information on the organizations that test, repair, modify, overhaul or rebuild the reportable item.

TABLE 38. Repair/overhaul/gain data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Date Checked | 1. <date-checked> |
| 2. Manhours to Repair/Overhaul | 2. <manhours-expend> |
| 3. Inspection and Action Codes | 3. <insp-action-code> |
| 4. Reason for Gain | 4. <reason> |
| 5. Contract Number | 5. <contract-no> |
| 6. Maintenance Level | 6. <maintlvl> |
| 7. Actual Failure Code | 7. <fail-code> |
| 8. SRA/ESRA | 8. <sra-esra> |
| 9. Parts Replaced During Overhaul: a. Nomenclature b. Failure Code c. Quantity d. Maintenance Action Code e. Part Number f. Serial Number | 9. <parts-replaced-data> a. <nomen> b. <fail-code> c. <qty> d. <action-code> e. <partno> f. <serial-no> |
| 10. Cumulative Counts/Hours Last Depot Repair: a. LCF 1 b. LCF 2 c. TTI d. Operating Hours | 12. <current-cumul-reading> a. <current-cumul-reading type="lcf1" cumulative="yes"> b. <current-cumul-reading type="lcf2" cumulative="yes"> c. <current-cumul-reading type="tti" cumulative="yes"> d. <current-cumul-reading type="op-hours" cumulative="yes"> |
| 11. Remarks | 11. <remarks> |

5.3.2.1.4 Installation/loss data. Table 39 provides information on the aircraft, component, or assembly on which the reportable item is installed, including the organization that installed the item. It also provides usage data and inventory loss data.

TABLE 39. Installation/loss data

| Data Element Title | Data Element Name/Attributes |
|------------------------------------|--|
| 1. Installed On (Nomenclature NHA) | 1. <nha-nomen> |
| 2. NSN (NHA) | 2. <nha-nsn> |
| 3. Part Number (NHA) | 3. <nha-partno> <nha-cageno> |
| 4. Serial Number (NHA) | 4. <nha-serialno> |
| 5. Hours (NHA) | 5. <op-hours> |
| 6. NHA Cumulative Counts/Hours | 6. <current-cumul-reading> |
| 7. APU Start Meter | 7. <apu-starts -hours meter-counts -at- installation="xx"> |
| 8. APU Hour Meter | 8. <apu-starts -hours meter-hours -at- installation="xx"> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 9. History Recorder Serial Number | 9. <history-recorder-serialno> |
| 10. History Recorder Reading | 10. <current-cumul-reading> |
| 11. Aircraft Model | 11. <acft-modelno> |
| 12. Aircraft Serial Number | 12. <acft-serialno> |
| 13. Maintenance Level | 13. <maintlvl> |
| 14. Date Installed | 14. <date-installed> |
| 15. UIC (This Action) | 15. <uic> |
| 16. Manhours (To Install) | 16. <manhours-expend> |
| 17. Reason for Loss | 17. <reason> |
| 18. New NSN | 18. <nsn> |
| 19. New Part Number | 19. <partno> |
| 20. Inspection and Action Codes | 20. <insp-action-code> |
| 21. Shipped to: a. Name b. Location c. UIC d. Date Shipped | 21. <shipped-to-data> a. <name> b. <location> c. <uic> d. <date-shipped> |

5.3.2.2 Aviation life support equipment (ALSE) data. ALSE is used in the event of flight operation emergencies to lend support and enhance the possibility for aircrew members and passengers of Army aircraft to endure and complete assigned missions. The data in this section covers tracking, by serial number; scheduling; recording; and managing maintenance operations of ALSE and aviation night vision goggles (NVGs) equipment. It covers inspection data that provides the results of maintenance checks and services, inspections, and includes information on faults discovered during equipment operation.

5.3.2.2.1 Life raft data. Table 40 provides data on the life raft inventory and maintenance inspections.

TABLE 40. Life raft data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Type | 1. <type> |
| 2. Serial Number | 2. <serialno> |
| 3. Accessory Kit Type | 3. <kit-type> |
| 4. Kit Number | 4. <kit-no> |
| 5. Location | 5. <location> |
| 6. Flares Information: a. Lot Number b. Type c. Date Installed d. Expiration Date | 6. <flares-data> a. <lotno> b. <type> c. <date-installed> d. <date-expires> |
| 7. Radio/PLB Type/Expiration | 7. <radio-plb-data> <type> <date-battery-expires> |
| 8. SDU Type/Expiration | 8. <sdu-data> <type> <date-battery-expires> |
| 9. Date of Manufacture (DOM) | 9. <date-of-manuf> |
| 10. Fire Starter Lot Number: a. Lot Number b. Installation Date | 10. <fire-starter-data> a. <lotno> b. <date-installed> |
| 11. Desalter DOM | 11. <desalter-data> <date-of-manuf> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 12. First Aid Kit Due | 12. <first-aid-kit-data> <date-inspection-due> |
| 13. Ration DOM | 13. <ration-data> <date-of-manuf> |
| 14. Distress Kit Information: a. Lot Number b. Date Installed | 14. <distress-kit-data> a. <lotno> b. <date-installed> |
| 15. Initial Issue Date | 15. <date-of-issue> |
| 16. Installed Components: a. NSN b. Part Number c. CAGE d. Quantity Required e. Quantity Authorized f. Quantity On Hand (O/H) | 16. <installed-component-data> a. <nsn> b. <partno> c. <cageno> d. <qty-required> e. <qty-authorized> f. <qty-on-hand> |
| 20. Inspection Data: a. Type Inspection b. Date Inspection c. Date Due d. PID | 17. <insp-data> a. <type> b. <date-inspected> c. <date-inspection-due> d. <pid> |

5.3.2.2.2 Helmet and oxygen mask/connector data. Table 41 provides information on the helmet, oxygen mask/connector and NVG visor inspections, including maintenance performed.

TABLE 41. Helmet and oxygen mask/connector data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Date of Annual Fitting | 1. <date-annual-fitting> |
| 2. Helmet Data: a. Nomenclature b. NSN c. Size d. Inspection Data: 1) Date Inspected 2) Date Inspection Due 3) PID 4) Remarks e. Repair Data: 1) Date 2) PID 3) Corrective Action 4) Remarks | 2. <helmet-data> a. <nomen> b. <nsn> c. <size> d. <helmet-and-o2-mask-insp-data> 1) <date-inspected> 2) <date-inspection-due> 3) <pid> 4) <remarks> e. <helmet-and-o2-mask-repair-data> 1) <date-repaired> 2) <pid> 3) <corr-action> 4) <remarks> |
| 3. Visor Data: a. Type b. Inspection Data: 1) Date Inspected 2) Date Inspection Due 3) PID 4) Remarks c. Repair Data: 1) Date 2) PID 3) Corrective Action 4) Remarks | 3. <visor-data> a. <type> b. <helmet-and-o2-mask-insp-data> 1) <date-inspected> 2) <date-inspection-due> 3) <pid> 4) <remarks> c. <helmet-and-o2-mask-repair-data> 1) <date-repaired> 2) <pid> 3) <corr-action> 4) <remarks> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 4. Oxygen Data: a. Type b. Inspection Data: 1) Date Inspected 2) Date Inspection Due 3) PID 4) Remarks c. Repair Data: 1) Date 2) PID 3) Corrective Action 4) Remarks | 4. <o2mask-data> a. <type> b. <helmet-and-o2-mask-insp-data> 1) <date-inspected> 2) <date-inspection-due> 3) <pid> 4) <remarks> c. <helmet-and-o2-mask-repair-data> 1) <date-repaired> 2) <pid> 3) <corr-action> 4) <remarks> |

5.3.2.2.3 Survival radio/emergency locator transmitter (ELT) data. Table 42 provides data on inspections and maintenance needed and completed for the survival radio/emergency locator transmitter.

TABLE 42. Survival radio/emergency locator transmitter data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Radio Information: a. Type b. Radio Serial Number c. Radio DOM d. Radio NSN | 1. <radio-data> a. <type> b. <serialno> c. <date-of-manuf> d. <nsn> |
| 2. ELT Information: a. ELT Serial Number b. ELT DOM c. ELT NSN | 2. <elt-data> a. <serialno> b. <date-of-manuf> c. <nsn> |
| 3. Technical Manual | 3. <reference> |
| 4. Battery Information: a. Type b. Battery Serial Number c. Battery Lot Number d. Battery DOM | 4. <battery-data> d. <type> e. <serialno> f. <lotno> g. <date-of-manuf> |
| 5. Inspection Record: a. Due Date b. Type Inspection c. Date Inspected d. PID | 5. <insp-record-entry> a. <date-inspection-due> b. <insp-type> c. <date-inspected> d. <pid> |

5.3.2.2.4 Survival kit inspection and maintenance data. Table 43 provides data on all inspections and maintenance needed and completed for the survival kit.

TABLE 43. Survival kit inspection and maintenance data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Kit Data: a. Type b. NSN c. Serial Number d. ID Number | 1. <kit-data> a. <kit-type> b. <nsn> c. <serialno> d. <kit-no> |
| 2. Location Data: a. Aircraft NSN | 2. <kit-location> a. <acft-nsn> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|---|
| b. Aircraft Serial Number c. Kit Station | b. <acft-serialno> c. <kit-station> |
| 3. Ammunition Information: a. Type b. Lot Number c. Ammunition Shelf Life | 3. <ammo-data> a. <type> b. <lotno> c. <shelf-life> |
| 4. Flare Information: a. Lot Number b. Type c. Date Installed d. Expiration Date | 4. <flares-data> a. <lotno> b. <type> c. <date-installed> d. <date-expires> |
| 5. Ration DOM | 5. <ration-data> |
| 6. First Aid Kit Due | 6. <first-aid-kit-data> |
| 7. Installed Components Record: a. NSN b. Part Number c. CAGE d. Quantity Required e. Quantity Authorized f. Quantity on Hand (O/H) | 7. <installed-component-data> a. <nsn> b. <partno> c. <cageno> d. <qty-required> e. <qty-authorized> f. <qty-on-hand> |
| 8. Maintenance and Inspection Data: a. Due Date b. Inspection Date c. Faults d. Corrective Action e. PID | 8. <maint-insp-data> a. <date-inspection-due> b. <date-inspected> c. <fault> d. <corr-action> e. <pid> |

5.3.2.2.5 Mesh net survival vest data. Table 44 provides data on all inspections and maintenance needed and completed for the Mesh Net Survival Vest.

TABLE 44. Mesh net survival vest data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. PID | 1. <pid> |
| 2. UIC | 2. <uic> |
| 3. Size | 3. <size> |
| 4. Installed Components: a. NSN b. Part Number c. CAGE d. Required Number e. Authorized Number f. On Hand | 4. <installed-component-data> a. <nsn> b. <partno> c. <cageno> d. <qty-required> e. <qty-authorized> f. <qty-on-hand> |
| 5. Survival Equipment: a. Type b. Serial Number c. DOM d. Lot Number e. Date of Issue (DOI) f. Expiration Date | 5. <survival-eqp-data> a. <type> b. <serialno> c. <date-of-manuf> d. <lotno> e. <date-of-issue> f. <date-expires> |
| 6. Inspection Data: a. Type b. Date Due c. Date Completed | 6. <insp-record> a. <type> b. <date-inspection-due> c. <date-inspected> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--------------------|------------------------------|
| d. PID | d. <pid> |

5.3.2.2.6 Life preserver data. Table 45 provides data on all inspections, and maintenance and inflation tests needed and completed for the life preserver.

TABLE 45. Life preserver data

| Data Element Title | Data Element Name/Attributes |
|------------------------------------|--|
| 1. NSN | 1. <nsn> |
| 2. Part Number | 2. <partno> |
| 3. CAGE | 3. <cageno> |
| 4. Serial Number | 4. <serialno> |
| 5. ID Number | 5. <identno> |
| 6. DOM | 6. <date-of-manuf> |
| 7. Location | 7. <location> |
| 8. CO ² Inflation Test: | 8. <co2-inflation-test> |
| a. PID | a. <pid> |
| b. Date Performed | b. <date-performed> |
| 9. Date Packed | 9. <date-packed> |
| 10. Cell Information: | 10. <cell-data> |
| a. Serial Number | a. <serialno> |
| b. Manufacturer | b. <manuf-name> |
| c. Left/Right Cell | c. <cell-data cell="left"> <cell-data cell="right"> |
| 11. Date Issued | 11. <date-of-issue> |
| 12. Location | 12. <location> |
| 13. Inspection Data: | 13. <insp-data> |
| a. Due Date | a. <date-inspection-due> |
| b. Date Inspected | b. <date-inspected> |
| c. PID | a. <pid> |
| 14. Maintenance Work: | 14. <maint-work-data> |
| a. Name of Activity | a. <unit-name> |
| b. Location of Activity | b. <location> |
| c. Corrective Action | c. <corr-action> |
| d. Date Completed | d. <date-completed> |
| e. PID | e. <pid> |

5.3.2.2.7 Oxygen console service data. Table 46 provides data on the oxygen system, specifically an inventory of installed components, inspections, and the servicing, repair or modification of the unit.

TABLE 46. Oxygen console service data

| Data Element Title | Data Element Name/Attributes |
|--------------------|------------------------------|
| 1. Model Number | 1. <modelno> |
| 2. Name | 2. <name> |
| 3. Type | 3. <type> |
| 4. NSN | 4. <nsn> |
| 5. Part Number | 5. <partno> |
| 6. CAGE | 6. <cageno> |
| 7. Serial Number | 7. <serialno> |
| 8. Oxygen Service: | 8. <o2-service-data> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|--|
| a. Status b. System PSI c. Date Service Performed d. PID | a. <status-symbol> b. <system-psi> c. <date-performed> d. <pid> |
| 9. Hydrostatic Test Due | 9. <date-test-due> |
| 10. Accessories Information: a. Nomenclature b. Serial Number c. Number Required d. Number Authorized e. Number on Hand (O/H) f. Inspection Cycle g. Time Change Due | 10. <accessories-data> a. <nomen> b. <serialno> c. <qty-required> d. <qty-authorized> e. <qty-on-hand> f. <insp-type> g. <date-replacement-due> |
| 11. Inspection Data: a. Type Inspection b. Date of Inspection c. Date Due d. PID | 11. <insp-data> a. <insp-type> b. <date-inspection-due> c. <date-inspected> b. <pid> |
| 12. Repair/Modification Data: a. Discrepancy b. Date Corrected c. Publication Reference d. PID | 12. <repair-mod-data> a. <fault> <modno> b. <date-repaired> c. <reference> d. <pid> |

5.3.2.2.8 Anti-exposure coveralls data. Table 47 provides data on all inspections and maintenance needed and completed for the anti-exposure coveralls.

TABLE 47. Anti-exposure coveralls data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. NSN | 1. <nsn> |
| 2. Part Number | 2. <partno> |
| 3. CAGE | 3. <cageno> |
| 4. Serial Number | 4. <serialno> |
| 5. ID Number | 5. <identno> |
| 6. Location: a. PID b. Aircraft NSN c. Aircraft Serial Number | 6. <location-assigned-data> a. <pid> b. <acft-nsn> c. <acft-serialno> |
| 7. Leak Test Due Date | 7. <date-test-due> |
| 8. Size | 8. <size> |
| 9. Inspection Data: a. Date Due b. Date Inspected c. PID | 9. <insp-data> c. <date-inspection-due> d. <date-inspected> e. <pid> |
| 10. Maintenance Data: a. Fault b. Corrective Action c. UIC d. Date Completed e. PID | 10. <coverall-maint-data> c. <fault> d. <corr-action> e. <uic> f. <date-completed> g. <pid> |

MIL-STD-3008 (TM)

5.3.2.2.9 Night vision goggles (NVG) data. Table 48 provides data on all faults found during assembly, pre-operational checks, preventive maintenance checks and services, special inspections, and operations of the aviator NVG system.

TABLE 48. NVG inspection and maintenance data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. NSN | 1. <nsn> |
| 2. Serial Number | 2. <serialno> |
| 3. UIC | 3. <uic> |
| 4. Inspections: a. Due b. Type c. Date Inspected | 4. <insp-data> a. <date-inspection-due> b. <insp-type> c. <date-inspected> |
| 5. NVG Fault Information: a. Status b. Date c. Time d. PID e. Discrepancy f. Publication Reference g. Supply Requisition Number h. Remarks | 5. <nvg-fault-data> a. <status-symbol> b. <date-fault> c. <time> d. <pid> e. <discrepancy> f. <reference> g. <reqno> h. <remarks> |
| 6. NVG Correcting Information: a. Date b. Time c. Action d. PID e. Hours | 6. <nvg-correct-data> a. <date-fault-corrected> b. <time> c. <action> d. <pid> e. <hours> |
| 7. NVG Operational Hours: a. Current b. Today c. Total | 7. <nvg-op-hours> a. <nvg-op-hours hours="current"> b. <nvg-op-hours hours="today"> c. <nvg-op-hours hours="total"> |

5.3.3 Historical data requirements. Historical data about the weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Historical data shall be developed and recorded using the relational tables described in the following paragraphs.

5.3.3.1 Vibration data. Table 49 provides information on vibration tests performed on Army helicopter component drive shafts at the lateral, longitudinal and vertical axis. It includes significant historical data and actions taken to reduce vibration.

TABLE 49. Vibration data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Date | 1. <date-performed> |
| 2. Aircraft Hours | 2. <acft-hours> |
| 3. Shaft Vibration Data: a. NSN b. Shaft c. Lateral d. Longitudinal | 3. <shaft-data> a. <nsn> b. <shaft> c. <shaft-readings lateral-reading="xx"> d. <shaft-readings longitudinal-reading="xx"> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|-------------------------------|---|
| e. Vertical | e. <shaft-readings vertical-reading="xx"> |
| 4. Reason for Vibration Check | 4. <reason> |
| 5. Remarks | 5. <remarks> |

5.3.3.2 Component historical data. Table 50 provides information on historical data and events for selected TC, RC, and CC components/modules and parts that are removed and replaced at specific aircraft operating hours.

TABLE 50. Component data

| Data Element Title | Data Element Name/Attributes |
|-------------------------------------|--|
| 1. WUC | 1. <wuc> |
| 2. Component Information: | 2. <comp-hist-data> |
| a. Serial Number | a. <serialno> |
| b. Software Version | b. <sw-version> |
| c. Pitch Housing Weight | c. <weight> |
| d. Location | d. <location> |
| e. Number of Previous Overhauls | e. <no-previous-overhauls> |
| f. NHA Installed Hours | f. <op-hours measured="since-installation" source="nha"> |
| g. NHA Removal Hours | g. <op-hours measured="at-removal" source="nha"> |
| h. Time Since Overhaul | h. <op-hours measured="since-overhaul" source="component"> |
| i. Component Installed Hours | i. <op-hours measured="since-installation" source="component"> |
| j. Component Removal Hours | j. <op-hours measured="at-removal" source="component"> |
| k. Overhaul or Replacement Lifetime | k. <shelf-life> |
| l. Replacement Due – Aircraft Hours | l. <acft-hours> |

5.3.3.3 Component/module recorder data. Table 51 provides historical data for selected TC, RC and CC components and subcomponents for turbine engines equipped with a history recorder to collect total cumulative operating hours and history recorder counts. This information includes data on low cycle fatigue (LCF), time-temperature index (TTI), and engine, component or subcomponent operating hours.

TABLE 51. Component/module recorder data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Historical Counts on Component/Module | 1. <hist-counts> |
| a. Previous Counts of Component/Module | a. <hist-counts previous="xx"> |
| b. Reading at Installation of Module/Recorder | b. <hist-counts reading-at-installation="xx"> |
| c. Reading at Removal of Module/Recorder | c. <hist-counts reading-at-removal="xx"> |
| d. Other Counts | d. <hist-counts other-counts="xx"> |
| e. Total Component Counts: | e. <current-cumulative-reading> |
| 1) LCF 1 | 1) <current-cumul-reading type="lcf1" cumulative="yes"> |
| 2) LCF 2 | 2) <current-cumul-reading type="lcf2" cumulative="yes"> |
| 3) TTI | 3) <current-cumul-reading type="tti" cumulative="yes"> |
| 4) Operating Hours | 4) <current-cumul-reading type="op-hours" cumulative="yes"> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 2. History Recorder Serial Number | 2. <history-recorder-serialno> |
| 3. Replacement Component/Module Data | 3. <replace-module-data> |
| a. NSN | a. <nsn> |
| b. Part Number | b. <partno> |
| c. CAGE | c. <cageno> |
| d. Serial Number | d. <serialno> |
| e. Overhaul or Replacement Life | e. <overhaul-replace-life-data> |
| 1) Maximum Allowable Operating Time (MAOT) | 1) <maot> |
| 2) Condition Change (CC) | 2) <condition-change> |
| 3) Time Between Overhaul (TBO) | 3) <op-hours measured="since-overhaul"> |
| f. Counts at Last Depot Replacement | f. <counts-last-depot-replace> |
| g. Total Replacement Component/Module Counts: | g. <current-cumulative-reading> |
| 1) Cumulative LCF 1 Counts | 1) <current-cumul-reading type="lcf1" cumulative="yes"> |
| 2) Cumulative LCF 2 Counts | 2) <current-cumul-reading type="lcf2" cumulative="yes"> |
| 3) Cumulative T/TI Counts | 3) <current-cumul-reading type="tti" cumulative="yes"> |
| 4) Cumulative Operating Hours: | 4) <current-cumul-reading type="op-hours" cumulative="yes"> |
| h. Engine | h. <op-hours cumulative="yes" source="engine"> |
| i. Module/Component | i. <op-hours cumulative="yes" source="component"> |
| j. Replacement Due (History Recorder Hours) | j. <acft-hours> |

5.3.3.4 Aircraft inventory record. Table 52 provides data on items assigned to an aircraft that are subject to a periodic inventory.

TABLE 52. Aircraft inventory data

| Data Element Title | Data Element Name/Attributes |
|----------------------------------|------------------------------|
| 1. Aircraft Compartment Location | 1. <location> |
| 2. Equipment Checklist: | 2. <eqp-checklist> |
| a. NSN | a. <nsn> |
| b. Part Number | b. <partno> |
| c. CAGE | c. <cageno> |
| d. Item Data: | d. <item-data> |
| 1) Item Number | 1) <item-no> |
| 2) Quantity Required | 2) <qty-required> |
| 3) Quantity Found | 3) <qty-on-hand> |
| 4) Remarks | 4) <remarks> |
| 3. Verification Data: | 3. <verification-data> |
| a. PID | a. <pid> |
| b. Date | b. <date-performed> |
| c. Check Number | c. <check-no> |

5.3.3.5 Aircraft engine data. Aircraft engine data provides historical information on specified engine turbines, including engine analysis and component operating times.

MIL-STD-3008 (TM)

5.3.3.5.1 Engine turbine wheel data. Table 53 provides information on aircraft engine turbine wheels including maintenance, replacement and overhaul activities.

TABLE 53. Engine turbine wheel data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. Aircraft NSN | 1. <acft-nsn> |
| 2. Aircraft Serial Number | 2. <acft-serialno> |
| 3. Stage | 3. <stage-no> |
| 4. Acceptance Date | 4. <date-of-acceptance> |
| 5. Diametrical Measurements: | 5. <diam-meas-data> |
| a. Date | a. <date> |
| b. Wheel Time | b. <wheel-time> |
| c. Wheel with Blades: | c. <wheel-with-blades> |
| 1) Before Grind | 1) <wheel-with-blades meas-before-grind="xx"> |
| 2) After Grind | 2) <wheel-with-blades meas-after-grind="xx"> |
| d. Abnormal Temperature and/or Overspeed Data: | d. <abnormal-temp-overspeed-data> |
| 1) Date | 1) <date> |
| 2) Engine Time | 2) <op-hours source="engine"> |
| 3) Wheel Time | 3) <wheel-time> |
| 4) Temperature (°C) | 4) <temp> |
| 5) Speed (RPM) | 5) <rpm> |
| 6) Time Over Limit | 6) <time-over-limit> |
| 7) Remarks | 7) <remarks> |
| e. Installation Information: | e. <install-data> |
| 1) Activity | 1) <unit-activity> |
| 2) Engine Model Number | 2) <modelno> |
| 3) Engine Serial Number | 3) <serialno> |
| 4) Installed: | 4) <engine-installed> |
| a) Date | a) <date-installed> |
| b) Engine Time | b) <op-hours source="engine"> |
| 5) Removed: | 5) <engine-removed> |
| a) Date | a) <date-removed> |
| b) Engine Time | b) <op-hours source="engine"> |
| 6) Wheel Time (W/T) | 6) <wheel-time> |
| 7) Reason for Removal | 7) <reason> |
| 6. Turbine Wheel Blade Data: | 6. <wheel-blade-data> |
| a. Date | a. <date-performed> |
| b. Activity | b. <unit-activity> |
| c. Wheel Time | c. <wheel-time> |
| d. Blade Data: | d. <blade-data> |
| 1) Part Number | 1) <blade-data removed-partno="xx" type="xx"> |
| 2) Replaced | 2) <blade-data replaced-partno="xx" type="xx"> |
| e. Blade Position (B POS) | e. <blade-position> |
| f. Remarks | f. <remarks> |

5.3.3.5.2 Turbine engine analysis check (TEAC) data. Table 54 provides historical data for aircraft turbine engines that include a progressive record of aircraft TEAC for selected turbine engines.

MIL-STD-3008 (TM)

TABLE 54. Turbine analysis check data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Base Torque | 1. <base-torque> |
| 2. Engine Time Since Overhaul (TSO) | 2. <op-hours measured="since-overhaul" source="engine"> |
| 3. Readings: a. Outside Air Temperature (OAT °C) b. Free Air Temperature (FAT °C) c. Pressure Altimeter d. N1% Actual/Required e. NG% Actual/Required f. Torque Actual/Required g. Turbine Gas Temperature (TGT) | 3. <eng-readings> a. <oa-temp> b. <fa-temp> c. <press-alt> d. <n1-percent actual="xx"> <n1-percent req="xx"> e. <ng-percent actual="xx"> <ng-percent req="xx"> f. <torque> 1) <torque actual="xx"> 2) <torque req="xx"> g. <tg-temp> 1) <tg-temp actual="xx"> 2) <tg-temp req="xx"> |
| 4. Engine TOT Actual/Required | 4. <eng-temp> a. <eng-temp actual="xx"> b. <eng-temp req="xx"> |
| 5. Remarks | 5. <remarks> |

5.3.3.5.3 Component operating hours. Table 55 provides monthly data on aircraft, aircraft hours, engine serial numbers, history recorder serial numbers and current history recorder readings.

TABLE 55. Engine history recorder operating hours data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Period Ending Date | 1. <date> |
| 2. Aircraft NSN | 2. <acft-nsn> |
| 3. Aircraft Serial Number | 3. <acft-serialno> |
| 4. Engine Data: a. NSN b. Serial Number c. Position (POS) | 4. <engine-id> a. <nsn> b. <serialno> c. <engine-id position="1"> <engine-id position="2"> |
| 5. Low Cycle Fatigue (LCF) Readings: a. LCF 1 b. LCF 2 c. Time/Temperature d. Operating Hours | 5. <current-cumulative-reading> a. <current-cumul-reading type="lcf1" cumulative="yes"> b. <current-cumul-reading type="lcf2" cumulative="yes"> c. <current-cumul-reading type="tti" cumulative="yes"> d. <current-cumul-reading type="op-hours" cumulative="yes"> |
| 6. History Recorder Serial Number | 6. <history-recorder-serialno> |

5.3.3.5.4 Meter tracked component data. Table 56 provides a record of historical data and events for the AN/ALQ-144A Elapsed Time Indicator (ETI) and for selected TC, RC, and CC components/modules and parts that are removed and replaced at specific hours of operation as indicated on the ETI.

MIL-STD-3008 (TM)

TABLE 56. Meter tracked component data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Aircraft NSN | 1. <acft-nsn> |
| 2. Aircraft Serial Number | 2. <acft-serialno> |
| 3. Hours Installed in Aircraft | 3. <op-hours measured="since-installation" source="component"> |
| 4. Meter Reading at Installation | 4. <op-hours measured="at-installation" source="component"> |
| 5. Subcomponent/Module: a. WUC b. Part Number c. CAGE d. NSN e. Installed Hours f. Removed Hours g. Component Installed Hours h. Component Removed Hours i. Replace Life j. Replacement Due Meter Reading | 5. <subcomponent-data> a. <wuc> b. <partno> c. <cageno> d. <nsn> e. <op-hours measured="since-installation"> f. <op-hours measured="at-removal"> g. <op-hours measured="at-installation" source="component"> h. <op-hours measured="at-removal" source="component"> i. <shelf-life> j. <replacement-due> |
| 6. Significant Data | 6. <remarks> |

5.4 Non-aviation data requirements. Non-aviation data requirements provide necessary information to manage operations and maintenance, to control the use, and to report warranty actions and deficiencies of Army equipment that include self-powered vehicles, towed vehicles, stationary powered equipment, watercraft and rail equipment. Cross-functional data requirements pertinent to equipment identification, personnel, inspections, fault, and costing data are addressed in Section 5.2.

5.4.1 Operational data requirements. Operational data about the weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Operational data shall be developed and recorded using the relational tables described in the following paragraphs.

5.4.1.1 Equipment utilization data. Table 57 provides equipment utilization data on motor equipment operations. It documents the control and use of special purpose and material handling equipment, combat, tactical and nontactical vehicles. It also provides operating times on equipment that require services based on hours only; such equipment includes generators, air compressors, centrifugal pumps, etc.

TABLE 57. Equipment utilization data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Fuel (Gallons) | 1. <qty-fuel> |
| 2. Oil (Quarts) | 2. <qty-oil> |
| 3. Dispatch Information: a. In b. Out c. Time d. Hours e. Miles/Kilometers f. Total Hours g. Total Miles/Kilometers | 3. <eqp-dispatch-info> a. <eqp-dispatch-info action="in"> b. <eqp-dispatch-info action="out"> c. <date-time> d. <op-hours> e. <miles-kilometers> f. <op-hours cumulative="yes"> g. <miles-kilometers cumulative="yes"> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 4. Report to PID | 4. <pid> |
| 5. Destination: a. Beginning Point b. Ending Point c. Off-Post Travel Stop d. Date | 5. <eqp-destination-info> a. <from-info> <location> <time> b. <to-info> <location> <time> c. <interim-info> <location> <arrival-time> <departure-time> d. <date> |
| 6. Released by: a. PID b. Date | 6. <released-by-data> a. <pid> b. <date> |
| 7. Remarks | 7. <remarks> |

5.4.2 **Maintenance data requirements.** Maintenance data about the weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Maintenance data shall be developed and recorded using the relational tables described in the following paragraphs.

5.4.2.1 **Equipment deadlined.** Table 58, used in conjunction with Tables 1 and 2, provides data on equipment that is not mission capable due to parts or components being inoperative.

TABLE 58. Equipment deadlined data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Deadlined Item: a. NSN b. Serial Number | 1. <eqp-deadlined-info> a. <nsn> b. <serialno> |
| 2. Part Source Code | 2. <part-source-code> <part-source-code repair-part-source="authorized-stockage-list"> <part-source-code repair-part-source="bench-stock"> <part-source-code repair-part-source="cannibalization"> <part-source-code repair-part-source="reparable-exchange"> <part-source-code repair-part-source="fabrication"> <part-source-code repair-part-source="self-service-supply-center"> <part-source-code repair-part-source="maintenance-program-req"> <part-source-code repair-part-source="exception-data-req"> <part-source-code repair-part-source="quick-service-supply"> <part-source-code repair-part-source="demand-against-stock-shop-list"> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|-----------------------------------|--|
| 3. Weapon System Deadlined Code | 3. <ws-deadlined-code> <ws-deadlined-code code="deadlined-system"> <ws-deadlined-code code="not-system-applicable"> <ws-deadlined-code code="impairs-system"> |
| 4. Work Request Status Code | 4. <work-request-status-code> |
| 5. Manhours Remaining | 5. <manhours-remaining> |
| 6. Date Deadlined | 6. <date-time> |
| 7. Equipment Readiness Code (ERC) | 7. <eqp-readiness-code> |
| 8. Days Deadlined | 8. <days-deadlined> |
| 9. Estimated Shipping Date | 9. <date-for-shipment> |
| 10. Maintenance Level | 10. <maintlvl> |
| 11. Malfunction Description | 11. <malfunction> |

5.4.3 Historical data requirements. Historical data about the weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, shall be provided. Historical data shall be developed and recorded using the relational tables described in the following paragraphs

5.4.3.1 Armament information. Armament information provides an historical account of a specified armament system, both from operational and maintenance perspectives. Such considerations as accuracy, reliability and safety are inclusive for complete data inputs.

5.4.3.1.1 Armament system data. Table 59 provides information on the service life of weapons with cannons or mortar tubes; rounds fired on each armament subsystem and component; and when components are replaced, overhauled or rebuilt on a rounds fired basis.

TABLE 59. Armament system data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Cannon Tube NSN | 1. <cannon-tube-nsn> |
| 2. Assembly Serial Number | 2. <assembly-serialno> |
| 3. Cannon Information: a. Type b. NSN c. Serial Number | 3. <cannon-info> a. <type> b. <nsn> c. <serialno> |
| 4. Special Life Data | 4. <special-life-data> |
| 5. Retubings: a. Number of Times Retubed b. Total EFC Rounds c. Total Cumulative EFC Rounds at Last Retubing | 5. <retubing-data> a. <retubing-data times-retubed="xx"> b. <retubing-data total-efc-rounds="xx"> c. <retubing-data cumulative-efc-rounds="xx"> |
| 6. Number of Times Rebushed | 6. <times-rebushed> |
| 7. Number of Times Revented | 7. <times-revented> |
| 8. Rounds Fired Data: a. Date b. Projectile Type c. Zone or Charge d. Rounds Fired e. EFC Rounds Fired f. Cumulative Rounds Fired g. Cumulative EFC Rounds | 8. <arm-rounds-fired-data> a. <date> b. <projectile-type> c. <charge> d. <zone> e. <efc-rounds-fired> f. <rounds-fired cumulative="yes"> g. <efc-rounds-fired cumulative="yes"> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|---|
| h. Remaining Life | h. <remaining-life> |
| i. Rounds Remaining for the Breech | i. <remaining-rounds rounds="breech"> |
| j. Rounds Remaining for the Firing Pin | j. <remaining-rounds rounds="firing-pin"> |
| k. Additional Operational Maintenance Data | k. <remarks> |

5.4.3.2 Equipment control data. Table 60 provides equipment acceptance and inventory data. In conjunction with Tables 1 and 2, it covers information on ownership, location, usage, transfers, gains, losses, and overhaul.

TABLE 60. Equipment control data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Date | 1. <date-time> |
| 2. Vehicle Use Code | 2. <vehicle-use-code> |
| 3. Year of Manufacture | 3. <date-of-manuf> |
| 4. Vehicle Type: a. Tactical Vehicles b. Non-Tactical Vehicles c. Overhauled | 4. <vehicle-type> a. <vehicle-type type="tactical"> b. <vehicle-type type="non-tactical"> c. <vehicle-type type="overhauled"> |
| 5. Type Report | 5. <type> |
| 6. Report Code | 6. <report-code> |
| 7. Usage Hours | 7. <op-hours source="engine"> |
| 8. Usage Miles/Kilometers | 8. <miles-kilometers> |
| 9. Shipped To | 9. <shipped-to-data> |
| 10. Shipped From | 10. <shipper-data> |
| 11. Additional Equipment Control Data | 11. <remarks> |

5.4.3.3 Equipment maintenance and calibration data. Table 61 provides information on the maintenance and calibration history of a specified item of equipment. This information is also used to track and control components under warranty.

TABLE 61. Equipment maintenance and calibration data

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1. Location | 1. <location> |
| 2. Frequency of Maintenance Inspection | 2. <frequency-data> |
| 3. Expected Useful Life | 3. <expected-life> |
| 4. Expected Date of Retirement | 4. <date-expected-retirement> |
| 5. Technical References | 5. <reference> |
| 6. Date Put in Service | 6. <date-in-service> |
| 7. Unit Cost | 7. <unit-cost> |
| 8. Maintenance Inspection Data: a. Date b. PID c. Job Order Number d. Additional Maintenance Inspection Data | 8. <eqp-maint-insp-data> a. <date> b. <pid> c. <jobno> d. <additional-data> |
| 9. Equipment Calibration Data: a. Calibration Activity: 1) UIC 2) PID b. Date c. Cycles | 9. <eqp-calibration-data> a. <unit-activity> 1) <uic> 2) <pid> b. <date> c. <cycles> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|---------------------------|------------------------------|
| d. Interval | d. <intervals> |
| e. TM | e. <reference> |
| f. Remarks | f. <remarks> |
| 10. Repair and Cost Data: | 10. <eqp-repair-cost-data> |
| a. Repair Activity UIC | a. <unit-activity> |
| b. Date | b. <date> |
| c. PID | c. <pid> |
| d. Publication Reference | d. <reference> |
| e. Recall Number | e. <recall-no> |
| f. Nature of Repair | f. <nature-of-repair> |
| g. Manhours | g. <manhours-expend> |
| h. Parts Cost | h. <part-cost> |
| i. Labor Cost | i. <manhours-cost> |
| j. Total Cost | j. <total-cost> |
| 11. Modification Data | 11. <modification-data> |

5.4.3.4 **Watercraft and amphibious lighters.** This section provides information on coastal, harbor, and inland waterway craft; landing craft; amphibians; lighters; lighter aircraft vessels; barges; and oceangoing vessels (self-propelled or towed, tugged or pushed).

5.4.3.4.1 **Dry-docking, painting and condition of vessel bottom data.** Table 62 provides information on cyclical maintenance and the condition of a watercraft's bottom, zinc protectors, rudders, propellers, struts, shafting and shaft bearing, sea valves, and paint system.

TABLE 62. Dry-docking, painting and condition of vessel bottom data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Dry-docking and Painting Data: | 1. <dry-dock-painting-data> |
| a. UIC of Present DD or Haul Out | a. <present-uic> |
| b. UIC of Last DD or Haul Out | b. <last-uic> |
| c. Time Elapsed Since Last Printing | c. <time> |
| d. CAGE | d. <cageno> |
| e. Date of Last DD | e. <date-of-last-DD> |
| f. Date of Present DD | f. <date-of-present-DD> |
| g. Date Refloated | g. <date-refloated> |
| h. Condition of Underwater Hull Plates | h. <condition> |
| 2. Condition of Underwater Fittings: | 2. <underwater-fittings-data> |
| a. Size of Shaft | a. <size> |
| b. Date Tail Shaft Last Drawn | b. <date-last-drawn> |
| c. Rudder(s) | c. <rudders> |
| d. Rudders Pintle Bearings and Gudgeons: | d. <rudders-pintle> |
| 1) Reviewed at this Docking | 1) <rudders-pintle renewed-at-docking="xx"> |
| e. Propeller Information: | e. <propeller-info> |
| 1) Propeller Size | 1) <propeller-info size="xx"> |
| 2) Propeller Pitch | 2) <propeller-info pitch="xx"> |
| 3) Propeller Struts | 3) <propeller-info struts="xx"> |
| f. Outboard Stern Bearing(s): | f. <bearings> |
| 1) At Docking | 1) <bearings at-docking="xx"> |
| 2) Prior to Floating | 2) <bearings prior-to-floating="xx"> |
| 3) How Much Wear (Thousandths of an Inch) | 3) <bearings how-much-wear="xx"> |
| 4) Date Last Cutlass Rubber Renewed | 4) <bearings date-rubber-removed="xx"> |
| g. Sea Strainers: | g. <sea-strainers> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 1) Renewed at this Docking h. Sea Chests and Valves i. Hull Zincs: 1) Size 2) Number 3) Type 4) Renewed at this Docking j. Zinc Bars at Sea Chest/Keel Coolers: 1) Size 2) Number 3) Type 4) Renewed at this Docking k. Bilge Keels l. Stern Frame/Skeg/Kort Nozzle m. Corrosion Control System Condition: 1) Anode 2) Reference Electrode 3) Prop Shaft Grounding Assembly | 1) <sea-strainers renewed-at-docking="xx"> h. <sea-chests-and-valves> i. <hull-zincs> 1) <hull-zincs size="xx"> 2) <hull-zincs number="xx"> 3) <hull-zincs type="xx"> 4) <hull-zincs renewed-at-docking="xx"> j. <zinc-bars> 1) <zinc-bars size="xx"> 2) <zinc-bars number="xx"> 3) <zinc-bars type="xx"> 4) <zinc-bars renewed-at-docking="xx"> k. <bilge-keels> l. <stern-nozzle> m. <corrosion-control-condition> 1) <corrosion-control-condition anode="xx"> 2) <corrosion-control-condition electrode="xx"> 3) <corrosion-control-condition grounding- assembly="xx"> |
| 3. Bottom Fouling: a. Plant Fouling b. Animal Fouling c. Condition: 1) Heavy 2) Moderate 3) Slight | 3. <bottom-fouling-data> a. <bottom-fouling-data type="plant-fouling"> b. <bottom-fouling-data type="animal-fouling"> c. <bottom-fouling-data condition> 1) <bottom-fouling-data condition="heavy"> 2) <bottom-fouling-data condition="moderate"> 3) <bottom-fouling-data condition="slight"> |
| 4. Paint Data: a. Weather Condition: 1) Temperature 2) Humidity 3) Sandblast to White Metal b. Fully Repainted: 1) Pretreatment (If Required): a) Number of Coats b) Type Used Mil Spec c) Formula d) Gallons Used e) Cost 2) Anticorrosive/Primer: a) Number of Coats b) Type Used Mil Spec c) Formula d) Gallons Used e) Cost 3) Antifouling: a) % Covered b) Number of Coats c) Type Used Mil Spec d) Formula e) Gallons Used f) Cost | 4. <paint-data> a. <weather-condition> 1) <weather-condition temperature="xx" temperature-scale="xx"> 2) <weather-condition humidity="xx"> 3) <weather-condition sandblast-to-white- metal="xx"> b. <fully-repainted> 1) <pretreatment> a) <no-of-coats> b) <type-used> c) <formula> d) <qty> e) <paint-cost> 2) <anticorrosive-primer> a) <no-of-coats> b) <type-used> c) <formula> d) <qty> e) <paint-cost> 3) <antifouling> a) <percent-covered> b) <no-of-coats> c) <type-used> d) <formula> e) <qty> f) <paint-cost> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|---|
| 4) Boot Topping: <ul style="list-style-type: none"> a) Number of Coats b) Type Used Mil Spec c) Formula d) Gallons Used e) Cost c. Spot Paint Only: <ul style="list-style-type: none"> 1) Anticorrosive: <ul style="list-style-type: none"> a) % of Bottom Covered b) Number of Coats c) Type Used Mil Spec d) Formula e) Gallon Used f) Cost 2) Antifouling: <ul style="list-style-type: none"> a) % of Bottom Covered b) Type Used Mil Spec c) Formula d) Gallon Used e) Cost 3) Condition of Bottom Paint 4) % Wire Brushed or Scraped d. Time Factors: <ul style="list-style-type: none"> 1) Time Between Each Coat (Hours): <ul style="list-style-type: none"> a) 1-2 Coats b) 2-3 Coats c) 3-4 Coats d) 5-6 Coats e) 6-7 Coats f) 7-8 Coats 2) Length of Time to Complete Painting 3) Time Between Last Coat and Refloating: <ul style="list-style-type: none"> a) If Not Refloated Right Away: <ul style="list-style-type: none"> (1) Give Method of Wetting (2) Time From Wetting to Refloating | 4) <boot-topping> <ul style="list-style-type: none"> a) <no-of-coats> b) <type-used> c) <formula> d) <qty> e) <paint-cost> c. <spot-paint-only> <ul style="list-style-type: none"> 1) <anticorrosive> <ul style="list-style-type: none"> a) <percent-covered> b) <no-of-coats> c) <type-used> d) <formula> e) <qty> f) <paint-cost> 2) <antifouling> <ul style="list-style-type: none"> a) <percent-covered> b) <type-used> c) <formula> d) <qty> e) <paint-cost> 3) <condition> 4) <percent-scraped> d. <time-factors> <ul style="list-style-type: none"> 1) <paint-time-data> <ul style="list-style-type: none"> a) <paint-time-data coats1-2="xx"> b) <paint-time-data coats2-3="xx"> c) <paint-time-data coats3-4="xx"> d) <paint-time-data coats5-6="xx"> e) <paint-time-data coats6-7="xx"> f) <paint-time-data coats7-8="xx"> 2) <time-to-complete> 3) <time-between-refloating> <ul style="list-style-type: none"> a) <not-immediate-float> (1) <method-of-wetting> (2) <time-between-refloating> |
| 5. Additional Procedures Data | 5. <additional-data> |

5.4.3.5 Rail equipment data. This section provides information on Army rail equipment that includes diesel electric locomotives, locomotive cranes, freight, passenger and maintenance equipment, and cars under the control of the Army.

5.4.3.5.1 Daily inspection data. Table 63 provides operator's and maintainer's status information on diesel electric locomotives and locomotive crane operation, services, and lubrication.

TABLE 63. Daily inspection data

| Data Element Title | Data Element Name/Attributes |
|--|--|
| 1. Operating Hours | 1. <ops-hours> |
| 2. Installation | 2. <unit-activity> |
| 3. Operator's Report: <ul style="list-style-type: none"> a. Item Number b. Repairs Needed c. Corrected d. Clean Unit | 3. <operators-report> <ul style="list-style-type: none"> a. <item-no> b. <nature-of-repair> c. <pid> d. <clean-unit> |

MIL-STD-3008 (TM)

| Data Element Title | Data Element Name/Attributes |
|--|--|
| e. Readings: 1) Lube Oil Pressure 2) Water Temperature 3) Battery Ammeter 4) Load Meter 5) Main Reservoir Pressure (PSI) 6) Equalizing Reservoir Pressure (PSI) 7) Brake Pipe Pressure (PSI) 8) Control Air Pressure (PSI) | e. <locomotive-readings> 1) <locomotive-readings lube-oil-pressure="xx"> 2) <locomotive-readings water-temperature="xx"> 3) <locomotive-readings battery-ammeter="xx"> 4) <locomotive-readings load-meter="xx"> 5) <locomotive-readings main-reservoir-pressure="xx"> 6) <locomotive-readings equalizing-reservoir-pressure="xx"> 7) <locomotive-readings brake-pipe-pressure="xx"> 8) <locomotive-readings control-air-pressure="xx"> |
| 4. Maintainer's Report: a. Lubricate Complete Locomotive: 1) OK 2) Defective 3) Corrected (Mechanic's PID) b. Check and Replenish Data: 1) Type Check/Replenish: a) OK b) Defective 2) Corrector's PID | 4. <maintainers-report> a. <lubricate-data> 1) <lubricate-data check="ok"> 2) <lubricate-data check="defective"> 3) <pid> b. <check-replenish-data> 1) <type> a) <check-replenish-data check="ok"> b) <check-replenish-data check="defective"> 2) <pid> |

5.4.3.5.2 Field inspection data. Table 64 provides information on the inspection of railway cars and is used in conjunction with information derived from Section 5.2.3 of this standard.

TABLE 64. Field inspection data

| Data Element Title | Data Element Name/Attributes |
|---|--|
| 1. Classification of Installation | 1. <classification> |
| 2. Tank Test Date | 2. <date-tank-test> |
| 3. Valve Test Date | 3. <date-valve-test> |
| 4. Tank Pressure or Valve Pressure | 4. <pressure> |
| 5. Loaded/Unloaded Car Weight | 5. <car-weight> |
| 6. Air Date | 6. <date-last-test> |
| 7. Journal Pads Changed Date: a. Type b. Date Built | 7. <journal-pads-changed> a. <type> b. <date> |
| 8. Date Last Inspected | 8. <date-of-last-inspect> |
| 9. Item Inspection Data: a. Material Type: b. Condition: 1) Satisfactory 2) Repair 3) Renew c. Remarks: | 9. <item-inspection-data> a. <type> b. <inspected-condition> 1) <inspected-condition condition="satisfactory"> 2) <inspected-condition condition="repair"> 3) <inspected-condition condition="renew"> c. <inspected-remarks> |

MIL-STD-3008 (TM)

5.4.3.5.3 Locomotive inspection and repair data. Table 65 provides information on the condition of locomotives and locomotive cranes and includes maintenance and repairs performed.

TABLE 65. Locomotive inspection and repair data

| Data Element Title | Data Element Name/Attributes |
|---|---|
| 1. Date | 1. <date-time> |
| 2. New Locomotive (Yes/No) | 2. <item-new> |
| 3. Previous Locomotive Number | 3. <previous-locomotive-no> |
| 4. Operated By: a. Installation Assigned b. RR Code | 4. <locomotive-operated-by> a. <unit-activity> b. <rr-code> |
| 5. Owned By: a. Component/Agency b. RR Code | 5. <locomotive-owned-by> a. <unit-activity> b. <rr-code> |
| 6. Original Year Built | 6. <original-year-built> |
| 7. Date of Manufacture | 7. <date-of-manuf> |
| 8. Propelled By | 8. <propelled-by> |
| 9. Horsepower | 9. <horsepower> |
| 10. Type of Service: a. Passenger b. Road c. Yard d. Other | 10. <locomotive-service-type> a. <locomotive-service-type type="passenger"> b. <locomotive-service-type type="road"> c. <locomotive-service-type type="yard"> d. <locomotive-service-type type="other"> |
| 11. Steam Generator | 11. <steam> |
| 12. Maximum Piston Travel: a. Type of Air Brake b. Length | 12. <max-piston-travel> a. <air-brake> b. <length> |
| 13. Out of Use Credit | 13. <days-out-of-use-credit> |
| 14. Last Periodic Inspection Date: a. Location | 14. <date-of-last-inspection> a. <location> |
| 15. Periodic Inspections: a. Date b. Place c. Items d. Person Conducting (PID) e. Certified By (PID) | 15. <periodic-inspection-data> a. <date> b. <location> c. <insp-item> d. <service-by-pid> e. <commander-pid> |
| 16. H&H Test Pressure | 16. <test-pressure> |
| 17. Waiver Data | 17. <waiver-data> |
| 18. Test Date and Place | 18. <date-performed> <location> |
| 19. Previous Test Date and Place | 19. <date-performed> <location> |
| 20. Certification of True Copy a. Locomotive Number b. PID of Official in Charge | 20. <certification> a. <locomotive-no> b. <pid> |

MIL-STD-3008 (TM)

6. NOTES.

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

6.1 Intended use. The operations, historical, maintenance, and ammunition data developed in accordance with the requirements of this standard are used to populate the Global Combat Support System - Army (GCSS-A) database for the efficient management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this standard.
- b. Issue of the DODISS to be cited in the solicitation, and if required, the specific issue of referenced documents.
- c. Identification of the applicable Document Type Definition (DTD) to be used.
- d. Content of presentation, unless otherwise specified (see 5.1.1).

6.3 Subject term (key word) listing.

Ammunition data
Document type definition (DTD)
Fault correcting information
Global Combat Support System - Army (GCSS-A)
Historical data
Interactive Electronic Technical Manual (IETM)
Maintenance data
Operational data
Parts requisitioning data
Standard Generalized Markup Language (SGML)
Uncorrected fault data

MIL-STD-3008 (TM)

APPENDIX A

DOCUMENT TYPE DEFINITION

A.1 SCOPE.

A.1.1 Scope. This appendix provides information on obtaining the Document Type Definition (DTD) and associated tag and attribute descriptions used for preparation and reporting of operations, historical, maintenance, and ammunition data. The data developed using this DTD will be provided to the Global Combat Support System - Army (GCSS-A) to facilitate efficient management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts.

A.2 APPLICABLE DOCUMENTS.

This section is not applicable to this appendix.

A.3 DEFINITIONS.

The definitions in section 3 of this standard apply to this appendix.

A.4 GENERAL REQUIREMENTS.

A.4.1 General. The DTD referenced in this appendix interprets the technical content and structure for the functional requirements contained in this standard and is mandatory for use.

A.4.2 Obtaining the DTD. The DTD and associated tag and attribute descriptions, which are XML constructs, may be obtained from the Army SGML Registry and Library (ASRL). The ASRL assets may be obtained as follows:

- a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator (URL) <http://www.asrl.com/>
- b. U.S. Mail: Requested files will be mailed on 3.5" DOS formatted diskettes or on 1/4 " UNIX tar formatted tape. Requests may be submitted as follows:

Written request:

Director, USAPA, ATTN: JDHQSV-PAP-E, 2461 Eisenhower Avenue, Alexandria, VA 22331

Telephone request:

Commercial: (703) 428-0508 or 0504

DSN: 328-0508 or 0504

A.5 DETAILED REQUIREMENTS.

This section is not applicable to this appendix.

A.6 NOTES.

This section is not applicable to this appendix.

MIL-STD-3008 (TM)

INDEX

| | <u>PARAGRAPH</u> | <u>PAGE</u> |
|--|------------------|-------------|
| Acquisition requirements..... | 6.2 | 57 |
| Acronyms | 3.1.1 | 2 |
| Aircraft engine data | 5.3.3.5 | 45 |
| Aircraft inventory record | 5.3.3.4 | 45 |
| Ammunition accounting data..... | 5.2.8.1 | 27 |
| Ammunition condition data..... | 5.2.8.2 | 28 |
| Ammunition data requirements | 5.2.8 | 27 |
| Ammunition peculiar equipment utilization | 5.2.8.3 | 29 |
| Anti-exposure coveralls data..... | 5.3.2.2.8 | 42 |
| APPLICABLE DOCUMENTS | 2. | 1 |
| Armament information..... | 5.3.1.4 | 33 |
| | 5.4.3.1 | 50 |
| Armament system data..... | 5.3.1.4.1 | 33 |
| | 5.4.3.1.1 | 50 |
| Armament system sighting data | 5.3.1.4.2 | 34 |
| Army oil analysis program data | 5.2.6 | 24 |
| Aviation data requirements | 5.3 | 31 |
| Aviation life support equipment (ALSE) data | 5.3.2.2 | 37 |
| Combat Service Support (CSS) | 3.1.2 | 4 |
| Component data | 5.3.2.1.1 | 34 |
| Component historical data..... | 5.3.3.2 | 44 |
| Component operating hours | 5.3.3.5.3 | 47 |
| Component maintenance data..... | 5.3.2.1 | 34 |
| Component/module recorder data | 5.3.3.3 | 44 |
| Cost data..... | 5.2.3.4.5 | 19 |
| Cross-functional data requirements | 5.2 | 8 |
| Daily inspection data..... | 5.4.3.5.1 | 54 |
| Data requirements | 5.1 | 7 |
| Data tables | 5.1.2 | 8 |
| DEFINITIONS | 3. | 2 |
| Definitions..... | 3.1 | 2 |
| DETAILED REQUIREMENTS | 5. | 7 |
| Document Type Definition (DTD) | 3.1.3 | 4 |
| Dry-docking, painting and condition of vessel bottom data | 5.4.3.4.1 | 52 |
| Electronic Technical Manual (ETM)..... | 3.1.4 | 4 |
| Electronic Technical Manual-Interface (ETM-I) | 3.1.5 | 4 |
| Engine turbine wheel data | 5.3.3.5.1 | 45 |
| Environmental conditions data..... | 5.2.4.1 | 20 |
| Equipment and personnel identification data | 5.2.1 | 8 |
| Equipment and personnel identification matrix..... | 5.2.1.4 | 10 |
| Equipment assignment | 5.2.1.2 | 9 |
| Equipment/component modification data..... | 5.2.3.3 | 15 |
| Equipment control data | 5.4.3.2 | 51 |
| Equipment deadlined | 5.4.2.1 | 49 |
| Equipment inspection and maintenance data..... | 5.2.3.2 | 13 |
| Equipment inspection/modification data | 5.2.3.3.1 | 15 |
| Equipment maintenance and calibration data | 5.4.3.3 | 51 |

MIL-STD-3008 (TM)

INDEX

| | <u>PARAGRAPH</u> | <u>PAGE</u> |
|--|------------------|-------------|
| Equipment type | 5.2.1.1 | 8 |
| Equipment utilization data | 5.4.1.1 | 48 |
| Extensible Markup Language (XML) Schema | 3.1.6 | 5 |
| Fault correcting information | 5.2.4.3 | 21 |
| Fault data | 5.2.4 | 20 |
| Field inspection data..... | 5.4.3.5.2 | 55 |
| Flight data..... | 5.3.1.1 | 31 |
| Flight manual exceedance data..... | 5.3.1.2 | 33 |
| General..... | 2.1 | 1 |
| | 4.1 | 6 |
| GENERAL REQUIREMENTS | 4. | 6 |
| General requisition data | 5.2.9.1 | 29 |
| Global Combat Support System-Army (GCSS-A) | 3.1.7 | 5 |
| Government documents | 2.2 | 1 |
| Helmet and oxygen mask/connector data..... | 5.3.2.2.2 | 38 |
| Historical data requirements | 5.3.3 | 43 |
| | 5.4.3 | 50 |
| IETM data | 5.2.5 | 23 |
| IETM deficiency reporting | 5.2.10.2 | 31 |
| IETM fault result data | 5.2.5.1 | 23 |
| IETM maintenance reporting data | 5.2.5.2 | 23 |
| Inspection and maintenance data..... | 5.2.3 | 13 |
| Installation/loss data..... | 5.3.2.1.4 | 36 |
| Intended use..... | 6.1 | 57 |
| Interactive Electronic Technical Manual (IETM) | 3.1.8 | 5 |
| Life preserver data | 5.3.2.2.6 | 40 |
| Life raft data | 5.3.2.2.1 | 37 |
| Locomotive inspection and repair data | 5.4.3.5.3 | 55 |
| Maintenance data requirements | 5.3.2 | 34 |
| | 5.4.2 | 49 |
| Maintenance information..... | 5.2.3.4 | 15 |
| Maintenance request register data..... | 5.2.3.4.1 | 15 |
| Maintenance required data | 5.2.3.4.2 | 16 |
| Mesh net survival vest data..... | 5.3.2.2.5 | 40 |
| Meter tracked component data | 5.3.3.5.4 | 47 |
| Night vision goggles (NVG) data | 5.3.2.2.9 | 42 |
| Non-aviation data requirements | 5.4 | 48 |
| Not mission capable data..... | 5.2.4.6 | 22 |
| NOTES | 6. | 56 |
| Oil analysis and recommendation feedback data | 5.2.6.2 | 25 |
| Oil analysis request data..... | 5.2.6.1 | 24 |
| Operational data requirements | 5.3.1 | 31 |
| | 5.4.1 | 48 |
| Operations/maintenance fault information | 5.2.4.2 | 20 |
| Order of precedence | 2.3 | 2 |

MIL-STD-3008 (TM)

INDEX

| | <u>PARAGRAPH</u> | <u>PAGE</u> |
|--|------------------|-------------|
| Oxygen console service data..... | 5.3.2.2.7 | 41 |
| Parts information..... | 5.2.3.4.3 | 18 |
| Parts requisitioning data requirements | 5.2.9 | 29 |
| Personnel data..... | 5.2.1.3 | 9 |
| Preparation of data | 4.3 | 7 |
| Prescribed load list (PLL) inventory data..... | 5.2.3.4.4 | 18 |
| Preventive maintenance scheduled data..... | 5.2.3.1 | 13 |
| Product quality deficiency data | 5.2.7.1 | 26 |
| Purpose..... | 1.1 | 1 |
| Quality assurance..... | 5.2.7 | 25 |
| Rail equipment data..... | 5.4.3.5 | 54 |
| Related maintenance actions data | 5.2.4.4 | 21 |
| Removal data | 5.3.2.1.2 | 35 |
| Repair/overhaul/gain data..... | 5.3.2.1.3 | 36 |
| SCOPE..... | 1. | 1 |
| Servicing data | 5.2.2 | 12 |
| Sources for data collection and reporting | 4.2 | 7 |
| Sources for providing data | 4.4 | 7 |
| Specifications, standards, and handbooks | 2.2.1 | 1 |
| Standard Army Maintenance System (SAMS) | 3.1.9 | 5 |
| Standard Generalized Markup Language (SGML) | 3.1.10 | 5 |
| Subject term (key word) listing | 6.3 | 57 |
| Survival kit inspection and maintenance data..... | 5.3.2.2.4 | 39 |
| Survival radio/emergency locator transmitter (ELT) data | 5.3.2.2.3 | 39 |
| System status data..... | 5.3.1.3 | 33 |
| Technical manual data | 5.2.10 | 30 |
| Technical manual (non-IETM) deficiency reporting | 5.2.10.1 | 30 |
| The Army Maintenance Management System (TAMMS) | 3.1.11 | 5 |
| Turbine engine analysis check (TEAC) data..... | 5.3.3.5.2 | 46 |
| Types of data required..... | 5.1.1 | 7 |
| Uncorrected fault data | 5.2.4.5 | 22 |
| Unit Level Logistics System (ULLS)..... | 3.1.12 | 6 |
| Use of the DTD | 4.3.1 | 7 |
| Vibration data | 5.3.3.1 | 43 |
| Watercraft and amphibious lighters | 5.4.3.4 | 52 |

MIL-STD-3008 (TM)

CONCLUDING MATERIAL

CUSTODIAN:

Army - TM

PREPARING ACTIVITY:

Army - TM

REVIEW ACTIVITIES:

Army - AL, AR, AT, AV, CR, CU
EA, MI, PT, SC3

PROJECT NUMBER:

TMSS A360

| STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL | | |
|---|---|---|
| <p align="center">INSTRUCTIONS</p> <p>1. The preparing activity must complete blocks 1,2,3, and 8. In block 1, both the document number and revision letter should be given.</p> <p>2. The submitter of this form must complete blocks 4,5,6, and 7.</p> <p>3. The preparing activity must provide a reply within 30 days from receipt of this form.</p> <p>NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.</p> | | |
| I RECOMMEND A CHANGE | 1.DOCUMENT NUMBER MIL-STD-3008(TM) | 2.DOCUMENT DATE (YYMMDD) 000930 |
| 3.DOCUMENT TITLE Interactive Electronic Technical Manual (IETM) Technical Data Requirements to Support the Global Combat Support System - Army (GCSS-A) | | |
| 4.NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i> | | |
| 5.REASON FOR RECOMMENDATION | | |
| 6.SUBMITTER | | |
| a.NAME <i>(Last, First, Middle Initial)</i> | b.ORGANIZATION | |
| c.ADDRESS <i>(Include Zip Code)</i> | d.TELEPHONE <i>(Include Area Code)</i> (1)Commercial (2)AUTOVON <i>(If applicable)</i> | 7.DATE SUBMITTED <i>(YYMMDD)</i> |
| 8.PREPARING ACTIVITY | | |
| a.NAME USAMC Logistics Support Activity | b.TELEPHONE <i>(Include Area Code)</i> (1)Commercial (2)AUTOVON (205) 955-0852 645-0852 | |
| c.ADDRESS <i>(Include Zip Code)</i> ATTN: AMXLS-AP Redstone Arsenal, AL 35898-7466 | IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Standardization Program Office 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6221 Telephone (703) 767-6888 DSN 427-6888 | |