

**BY ORDER OF THE  
SECRETARY OF THE AIR FORCE**



**AIR FORCE MANUAL 21-202**

**29 AUGUST 2019  
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**MAINTENANCE**

**MISSILE MAINTENANCE  
MANAGEMENT**

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This Air Force Manual (AFMAN) implements Air Force Policy Directive (AFPD) 21-1, *Maintenance of Military Materiel*, and AFPD 21-2, *Munitions*. This manual establishes procedures for maintaining land-based Intercontinental Ballistic Missiles (ICBM) and Air Launched Cruise Missiles (ALCM). It applies to all civilian employees and uniformed members of the Regular Air Force, Air Force Reserve, and Air National Guard. Requirements of this publication must be implemented immediately. Units will contact the applicable Major Command (MAJCOM) for interpretations of the guidance contained in this manual. MAJCOMs may supplement this publication; route supplements to the office of primary responsibility (OPR) for coordination prior to certification and approval. The authorities to waive wing or unit level requirements in this publication are identified with a Tier ("T-0, T-1, T-2, T-3") number following the compliance statement. See Department of the Air Force Instruction (DAFI) 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the requestor's commander for non-tiered compliance items. Send a copy of the approved waiver to the OPR within 30 days of approval. This manual requires the collection and/or maintenance of information protected by the Privacy Act of 1974. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFI 33-322, *Records Management and Information Governance Program*, and disposed of in accordance with Air Force Records Information Management System Records Disposition Schedule. Refer recommended changes and questions about this publication to the OPR using the AF Form 847,

Recommendation for Change of Publication; route AF Forms 847 from the field through the appropriate functional chain of command.

### ***SUMMARY OF CHANGES***

This interim change revises AFMAN 21-202 by: (1) establishing the Maintenance Management Analysis and Maintenance Programs sections, (2) adjusting data integrity team responsibilities, (3) prescribing the use of the AF Form 3951, *ICBM Hardened Intersite Cable Right-of Way Landowner/Tenant Questionnaire*, (4) adjusting special certification roster requirements, and (5) making minor administrative corrections throughout. A margin bar (|) indicates newly revised material.

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## CHAPTER 1

### MAINTENANCE MANAGEMENT GUIDANCE

**1.1. Introduction.** This manual prescribes missile maintenance guidance and procedures. Cruise missile maintenance units will only follow guidance contained in chapters **1**, **2**, and **8**, unless identified as **(ICBM)** preceding the paragraph. This publication is not applicable to Munitions units within ICBM maintenance groups or within the 576th Flight Test Squadron (576 FLTS). The following coding is used in this manual preceding certain paragraphs:

1.1.1. **(ICBM)** . This indicates applicability to ICBM units only, including the 576 FLTS.

1.1.2. **(576 FLTS)** . This indicates applicability to the 576 FLTS only.

1.1.3. **(N/A 576 FLTS)** . This indicates the paragraph or portion thereof is not applicable to the 576 FLTS.

1.1.4. **(2 MUNS)** . This indicates this paragraph is applicable to the 2nd Munitions Squadron only.

1.1.5. **(509 MUNS)** . This indicates this paragraph is applicable to the 509th Munitions Squadron only.

1.1.6. **(Generation Flight)** . This indicates the paragraph is applicable to Generation Flight only within an ICBM unit or the 576 FLTS.

**1.2. Maintenance Concept.** All maintenance actions and management efforts must be directed towards the support of United States Strategic Command requirements. **(T-0)**.

**1.3. Munitions and Missile Maintenance Tactics, Techniques, and Procedures (TTP).** Maintenance leaders should utilize TTP volumes to more effectively and efficiently accomplish the mission. Munitions and Missile Maintenance TTP volumes may be found at: <https://intelshare.intelink.gov/sites/561jts/aftp/SitePages/home.aspx>.

**1.4. Nuclear Certification Program.** Manage nuclear-certified equipment, software, vehicles and end items identified in USAF Master Nuclear Certification List per AFI 63-125, *Nuclear Certification Program* listed in <https://wwwmil.nwc.kirtland.af.mil/MNCL/index.cfm> **(T-1)**.

**1.5. Weapon System Support Equipment.** Requests for support equipment operations not directed by weapon system technical orders (T.O.) must be approved in advance. **(T-2)**. Forward detailed requests, to include item nomenclature, serial number, intended use and any specific information on configuration changes or expected failure modes to MAJCOM logistics division for evaluation.

**1.6. Preventive Maintenance.** The purpose of the entire maintenance process is to sustain a capability to support operational mission requirements per T.O. 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures*. Preventive maintenance is a combination of isochronal inspections and the “Find and Fix” philosophy. The “Find and Fix” philosophy requires all qualified maintenance personnel to actively inspect missile sites and cruise missiles and make repairs within their capability. This also applies when maintenance is performed on vehicles or support equipment.

## 1.7. (ICBM) Weapon System.

1.7.1. Remove missiles from alert status to perform maintenance actions that prevent progressive degradation of missile systems or to perform tests prescribed in T.O.s and higher headquarters' directives and instructions. When practical, a scheduled off alert will be planned to align with other maintenance requiring the sortie to be scheduled off alert. **(T-3)**.

1.7.2. Emphasize configuration management of facilities and equipment at all levels of management. Maintain ICBM launch facilities to the same standard regardless of booster deployment status.

1.7.3. **(576 FLTS)** Deficiency Reports will not be used to replace waiver authority for Flight Worthiness Assessments and Component Replacement Requests. An Unsatisfactory Report can be used because the Department of Energy is its own waiver authority. Follow Air Force Global Strike Command (AFGSC) guidance for specific Force Development Evaluation (FDE) waiver requests.

1.7.4. Use only equipment authorized by technical data and/or T.O. 21M-LGM30G-12, *Safety and Electromagnetic Interference Provisions* to conduct maintenance. **(T-2)**. Submit requests for alternate or substitute equipment, or exempt powered devices through AFGSC logistics division.

## 1.8. Safety.

1.8.1. Use unit plans and supplements to establish specific roles and responsibilities during missile or nuclear mishaps and disaster response situations. **(T-3)**. These may include Missile Potential Hazards (MPH), Propulsion System Rocket Engine (PSRE) or Post Boost Control System responses, Nuclear Weapon Accident/Incident responses, or Missile Booster Movement Plans.

1.8.2. The Missile Combat Crew (MCC) is in command of the Launch Facility (LF) at all times regardless of its status, when the Launch Control Center (LCC) is manned. The MCC has full authority to prohibit commencement and direct termination of any task. The maintenance team chief is responsible for the safe operation of the missile system in the LF once the LF is penetrated and the lock pin assembly is installed in the safety control switch. Whether the LCC is manned or unmanned, the team chief on the LF has full authority to prohibit commencement and direct termination of any task.

1.8.3. When a critical safety deficiency is discovered, the reporting activity will submit a deficiency report. See T.O. 00-35D-54, *USAF Deficiency Reporting, Investigation, and Resolution* for detailed guidance **(T-1)**. Refer to AFGSC developed stop-use procedures and [paragraph 5.9](#).

1.8.4. Only use the training Reentry System (RS) when generating the off-base training LF to simulated alert. **(T-1)**.

## 1.9. (N/A 576 FLTS) Maintenance Augmentation Management. Certain situations may require personnel not assigned to the Maintenance Group to perform maintenance actions as directed by the Missile Maintenance Operations Center (MMOC).

1.9.1. MCCs may perform locally specified maintenance tasks in the LCC. The Maintenance and Operations Group Commanders must approve the specified maintenance tasks in writing. **(T-3)**.

1.9.2. Security Forces may perform locally specified maintenance tasks at the LF. The Maintenance and Security Forces Group Commanders must approve specified maintenance tasks in writing. **(T-3).**

## CHAPTER 2

### ROLES AND RESPONSIBILITIES

**2.1. Introduction.** This chapter identifies roles and responsibilities applicable to maintenance management. This chapter applies to ICBM units, with the exception of [paragraph 2.16](#) which only applies to cruise missile units. This chapter applies to the 576 FLTS unless indicated and where the division or position exists.

**2.2. Air Force Global Strike Command.** As the lead command for ICBMs and cruise missiles, AFGSC develops management guidance and procedures that allow units to achieve the highest levels of safety, nuclear surety, security, and productivity. Where applicable, AFGSC will:

2.2.1. Develop Missile Maintenance Priority Designator lists, Mission Essential Subsystem lists, and ICBM Communications Mission Capability lists and post them on the Air Force Nuclear Munitions Command and Control (NMC2) website, <https://cs2.eis.af.mil/sites/11262/afgsc/SitePages/Home.aspx>. (T-1).

2.2.2. Ensure development of guidance to support and resolve a MPH. (T-1).

2.2.3. Develop guidance to execute stop-use procedures. (T-1).

2.2.4. Develop guidance for units to coordinate changes to the published maintenance schedule. (T-1).

2.2.5. Develop guidance to cover Large Maintenance Vehicle operations and convoy requirements. (T-1).

2.2.6. Develop the Data Integrity Team (DIT) Brief and post on NMC2. (T-1).

2.2.6.1. DELETED

2.2.6.2. DELETED

2.2.6.3. DELETED

2.2.6.4. DELETED

2.2.7. (ICBM) Develop guidance for the management and use of lesson plans used by non-Field Training Detachment (FTD) trainers and Maintenance Training Section (MTS) instructors.

2.2.8. Develop guidance to assist units with the integrated maintenance data system (IMDS) reconciliation process. (T-1).

2.2.9. Develop guidance for units to establish a corrosion prevention and control program. (T-1).

2.2.10. Serve as the primary interface between the missile wings and the 982d Training Group concerning FTD training courses and support agreements. (T-1).

2.2.11. Validate Cable Affairs funding and support requests (e.g. funding support, engineering package reviews, depot level maintenance support, etc.) and coordinate with appropriate agencies. (T-1).

2.2.12. Develop processes to identify and manage Attrition Reserve Missiles. (T-1).



2.2.13. **(ICBM)** Establish number of training slots required for Field Training Detachment (FTD) journeyman courses and publish in the MAJCOM Mandatory Course List (MMCL). Review and update the MMCL annually and coordinated with AETC curriculum managers.

**2.3. (ICBM) Missile Wing Commander (MW/CC).** The MW/CC is responsible to the 20th Air Force Commander (20 AF/CC) for mission execution. The MW/CC will:

2.3.1. Ensure Maintenance, Security Forces, Operations, and Mission Support Groups develop joint planning and scheduling cycles to ensure the best use of personnel and resources to accomplish sortie production and long-term fleet health. **(T-2).**

2.3.2. Ensure that maintenance organizations are not overtasked with augmentation duties outside maintenance functional areas. **(T-2).**

2.3.3. Conduct a daily "Wing Standup" meeting. This meeting will include, at a minimum, a review of previous, current, and future activities, focused on identifying and resolving issues with executing the established maintenance schedule. **(T-2).**

2.3.4. Review and approve all night-time major maintenance on a case-by-case basis in accordance with [Table 5.2](#). **(T-1).**

**2.4. (ICBM) Maintenance Group Commander (MXG/CC).** The MXG/CC provides maximum warfighting capability to the MW/CC. The 576 FLTS/CC is the equivalent of an MXG/CC. In addition to responsibilities outlined in AFMAN 21-200, *Munitions and Missile Maintenance Management*, the MXG/CC will:

2.4.1. Ensure development of emergency response plans, as required. **(T-2).**

2.4.2. Ensure development of an environmental program which complies with all federal, state, local, and Air Force requirements. Serve as a representative on the base environmental, safety and occupational health council. **(T-0).**

2.4.3. Approve, in writing, code change penetration team structure for any team without a certified team chief. Approve non-certified team chiefs for LF topside, launcher support building, launcher auxiliary support building contractor escort duties, flood control, snow removal, and refueling operations. **(T-2).**

2.4.4. Maintain agreements guaranteeing non-destructive inspection support by authorized agencies. Notify the AFGSC logistics division if support is lost. **(T-2).**

2.4.5. Ensure implementation of a corrosion control prevention, detection and treatment program for all assigned equipment and facilities in accordance with MAJCOM guidance. **(T-2).**

2.4.6. Approve weekend major maintenance and maintenance requiring the site to be penetrated after official sunset or before official sunrise in accordance with [Table 5.2](#) (576 FLTS refer to [Table 5.3](#)). **(T-2).**

2.4.7. **(N/A 576 FLTS)** Approve all cannibalization requests for L-Cat launchers. **(T-2).**

2.4.8. **(576 FLTS)** Ensure development of a mission assurance certification program. **(T-1).**

2.4.9. **(576 FLTS)** Ensure Vehicle and Control Services performs Vehicle Control Officer/Noncommissioned Officer (NCO) duties for the maintenance complex. **(T-2).**

2.4.10. **(576 FLTS)** Endorse team chief certification packages prior to technicians performing team chief duties unsupervised. **(T-3).**

2.4.11. **(N/A 576 FLTS)** Ensure special purpose vehicles (i.e. payload transporters and transporter erectors) are parked indoors during winter months when not in use. **(T-3).**

2.4.12. **(N/A 576 FLTS)** Coordinate with 982d Training Group on training detachment manpower requirements. **(T-2).**

**2.5. (ICBM) Deputy Maintenance Group Commander (MXG/CD).** The MXG/CD assists the MXG/CC and has the same requisite authority as delegated by the MXG/CC. The 576 FLTS/CC may delegate these tasks to the Director of Operations or the Operations Officer/Superintendent (OO/SUPT). The MXG/CD will:

2.5.1. Chair the daily production meeting to review, at a minimum, site status, Mission Capable (MICAP) status, previous day's schedule deviations, current-day maintenance schedule execution, and next day's maintenance forecast. **(T-3).**

2.5.2. Review the following items at least weekly:

2.5.2.1. Next week's maintenance schedule to de-conflict and prioritize systems requiring and/or competing for shared resources. **(T-3).**

2.5.2.2. Overdue special inspections and planned corrective actions. **(T-3).**

2.5.2.3. Status of Time Compliance Technical Orders (TCTO). **(T-3).**

2.5.2.4. Previous week's deviations to maintenance schedules. **(T-3).**

2.5.2.5. Overdue Due-In-From-Maintenance. **(T-3).**

**2.6. (ICBM) Squadron Commanders.** The Missile Maintenance Squadron (MMXS) and Maintenance Squadron (MXS) Commanders provide maximum ICBM and equipment readiness to the MXG/CC. In addition to the responsibilities outlined in AFMAN 21-200, the MMXS/CC and MXS/CC will endorse team chief certification packages prior to technicians performing team chief duties unsupervised. The MMXS/CC will endorse FTD team chief packages. **(T-3).**

**2.7. (ICBM) Operations Officer/Superintendent.** The OO/SUPT manage maintenance production and assigned resources to achieve maximum war fighting capability. The OO/SUPT will:

2.7.1. Monitor the Minimum Essential Equipment List (MEEL) and direct efforts with responsible flight to restore MEEL levels to minimum requirements. Forward recommendations for changes, additions, or deletions to the MEEL to AFGSC for evaluation. **(T-3).**

2.7.2. **(576 FLTS)** Approve plans and schedules. **(T-3).**

2.7.3. Manage team chief training and certification requirements. Ensure the team chief certification memo, with squadron commander endorsement, is maintained as long as the member is performing team chief duties.

2.7.4. Certify (interview & approve) assigned ICBM team chiefs. MMXS will certify (interview & approve) FTD Team Chiefs, as required. Previously certified team chiefs do not require recertification unless additional training is required based on unit requirements. **(T-2).**

2.7.5. Certify (interview and approve) all newly assigned trainers. Ensure unit trainers meet the criteria in [paragraph 2.11.1](#). (T-2).

2.7.6. Perform periodic reviews of production indicators. (T-3).

2.7.7. Manage the squadron's Special Certification Roster (SCR). Review and sign semi-annually to verify entries are accurate and task certifications have been completed. (T-2).

2.7.8. Periodically review and ensure personnel are awarded the appropriate special experience identifiers using AF Form 2096, *Classification/On-The-Job Training Action*. (T-3).

**2.8. (ICBM) Flight Commander/Chief.** Responsible for the overall management and supervision of personnel assigned to the flight. The flight commander/chief will:

2.8.1. Manage planning and execution of the daily maintenance for the flight. Commit flight resources via the daily maintenance schedule. (T-3).

2.8.2. Review NMC2 daily for changes in weapon system status and ensure corrections are made. (T-3).

2.8.3. Notify OO/SUPT of any change to availability of resources committed to the weekly maintenance schedule. (T-3).

2.8.4. Ensure work centers effectively manage their Workload Requirements File (WRF). (T-2).

2.8.5. Establish a field or in-shop supervisory visit program that stresses safety, security, technical data usage and nuclear surety. (T-2).

2.8.6. **(Generation Flight)** Ensure 100 percent supervision of RS in-field mate/demate and handling tasks. (T-2). Ensure accurate tracking of spare PSREs, and uninstalled missile motors. (T-0).

2.8.7. **(Generation Flight)** Approve Missile Maintenance Team (MMT) changes (substitutions, additions, or subtractions). (T-2).

**2.9. (ICBM) Officer in Charge (OIC)/Noncommissioned Officer in Charge (NCOIC).** Responsible to the flight commander/chief for the effective management, supervision, and training of assigned maintenance technicians. The OIC/NCOIC will:

2.9.1. Notify MMOC and the flight commander/chief of any change to availability of resources committed to the maintenance schedule. (T-3).

2.9.2. Ensure the MEEL on NMC2 is updated daily for items managed by the work center. (T-2).

2.9.3. At least daily, verify accuracy and validity of all priority 1-4 work orders assigned to the section. Coordinate any required changes with MMOC and the flight commander/chief prior to making changes. (T-3).

2.9.4. Review IMDS daily for maintenance tasks applicable to the section. (T-3).

2.9.4.1. Ensure management of "awaiting maintenance" conditions within section's repair capability. (T-3).

2.9.4.2. Review "awaiting part" conditions and ensure parts have been ordered. (T-3).

- 2.9.5. Provide Decentralized Materiel Support a list of items requiring functional check, calibration, and build-up prior to use and tear-down before being turned in. **(T-3).**
- 2.9.6. Develop a Recurring Technical Training (RTT) program, in conjunction with the Maintenance Training Section (MTS) (Unit Technical Training Manager (UTTM) at 576 FLTS), to satisfy individual work center needs. **(T-2).**
- 2.9.7. Ensure section has 100% task coverage. **(T-2).**
- 2.9.8. Verify committed technicians are qualified in the Training Business Area and parts are available for the task prior to the daily and weekly scheduling meeting. **(T-2).**
- 2.9.9. Ensure equipment load lists are provided to the Vehicle & Equipment Section for all scheduled maintenance dispatches before the scheduling meeting. **(T-3).**
- 2.9.10. Ensure a certified team chief is assigned responsibility for all maintenance operations, except where authorized. **(T-2).**
- 2.9.11. Ensure personnel are certified and current on proficiency checks prior to performing nuclear weapons certified tasks **(T-1)**. See AFI 21-204, *Nuclear Weapons Maintenance* for further guidance.
- 2.9.12. Ensure a task-knowledgeable supervisor accompanies MMT team chiefs (portal-to-portal) on at least the first two dispatches that include aerospace vehicle equipment installation or removal. **(T-2).**
- 2.9.13. Ensure a task-knowledgeable supervisor accompanies new Missile Handling Team (MHT) team chiefs (portal-to-portal) on at least the first two missile removals or emplacements. **(T-2).**
- 2.9.14. **(576 FLTS)** Develop a critical task worksheet for each FDE critical task. **(T-2).**
- 2.9.15. Ensure personnel are trained, understand and comply with applicable ground, missile and explosive safety, nuclear surety requirements, Air Force Two-Person Concept, No-Lone zone requirements, security requirements, Personnel Reliability Program (PRP), MPH and code handling procedures. **(T-1).**
- 2.9.16. Ensure personnel are briefed on all T.O. and Civil Engineering Manual (CEM) changes affecting daily maintenance and know the requirements for submitting T.O. and CEM change requests. **(T-1).**
- 2.9.17. Ensure control, security, maintenance, inspection and service of assigned parts, equipment and tools. **(T-3).**
- 2.9.18. Ensure accomplishment of owner/user maintenance on Test Measurement Diagnostic Equipment (TMDE), if applicable. **(T-3).**
- 2.9.19. **(N/A 576 FLTS)** Ensure gas masks are maintained in accordance with governing directives. **(T-3).**
- 2.9.20. Ensure briefing and debriefing requirements are met in accordance with [Chapter 5](#). **(T-2).**
- 2.9.21. Review debriefed work orders in IMDS to ensure accuracy and completion. **(T-3).**

2.9.22. **(576 FLTS)** Initiate a technical assistance request or special request when issues are discovered which impact FDE activities. (T-2). See AFGSCI 99-102, *Intercontinental Ballistic Missile (ICBM) Operational Test and Evaluation (OT&E)* for further guidance.

2.9.23. Notify Quality Assurance (QA) when personnel are ready for initial Maintenance Standardization and Evaluation Program evaluations and when initial training is complete. **(T-3)**.

2.9.24. Notify QA and flight commander/chief monthly of team structure and before utilization of individuals not identified on the current team structure letter to perform maintenance. **(T-3)**.

2.9.25. Manage operating stock, shop stock, and work order residue as required. **(T-1)**.

2.9.26. **(N/A 576 FLTS)** Provide Emergency War Order (EWO) planning team members to provide status and availability of assigned equipment and personnel and to assist in developing generation plans. Ensure they have the authority to commit resources. **(T-3)**.

2.9.27. **(N/A 576 FLTS)** Maintain a method to identify technician qualifications for EWO scheduling purposes. (T-3).

2.9.28. Appoint primary and alternate DIT monitors, and identify these personnel to Maintenance Management Analysis. **(T-2)**.

**2.10. (ICBM) Task/Site Supervisors.** The task/site supervisor ensures safe, secure, and reliable maintenance operations, large maintenance vehicle operations, and crane operations and must be knowledgeable of the assigned tasks. **(T-3)**. The task/site supervisor will:

2.10.1. Assist with developing and executing the maintenance schedule. **(T-3)**.

2.10.2. Ensure all required documents and reports are submitted upon completion of maintenance tasks. **(T-3)**.

2.10.3. Execute the flight's field or in-shop supervisory visit program. **(T-3)**.

2.10.4. Oversee major maintenance activities, where applicable, and perform in-progress-inspections as required. **(T-3)**.

2.10.5. Supervise all RS mate/demate and handling tasks and support the Nuclear Weapons Certification Program. **(T-0)**.

**2.11. Trainers.** Trainers provide initial qualification, recurring technical, and if requested, special training in accordance with **Chapter 6**. Non-FTD trainers will:

2.11.1. Be certified by the applicable flight commander/chief prior to performing training unsupervised. **(T-1)**. To meet certification requirements, trainers must:

2.11.1.1. Meet minimum trainer requirements in AFI 36-2670, *Total Force Development*. **(T-1)**.

2.11.1.2. Complete local trainer orientation requirements and be observed by the work center OIC/NCOIC. **(T-2)**.

2.11.1.3. Pass an initial training evaluation in accordance with AFMAN 21-200. **(T-1)**.

2.11.1.4. Be qualified on the tasks being trained and the training systems or devices used. **NOTE.** Certified trainers not qualified on the task may partner with a task qualified individual to conduct training. **(T-1).**

2.11.2. DELETED

2.11.3. Document all training sessions, including student man-hours, in IMDS and forecast on the daily and weekly schedule. **(T-2).**

2.11.4. Advise leadership on trainee progress. Notify section OIC/NCOIC and MTS Chief (UTTM at 576 FLTS) if training will exceed completion milestones established in the Master Training Plan. **(T-2).**

2.11.5. Maintain training systems and devices not governed by contractor support as follows. **(T-2):**

2.11.5.1. Ensure completion of periodic inspections for Class I and II training equipment. See applicable 43 series and 00-20-series T.O.s for specific guidance.

2.11.5.2. Maintain weapon system components and end items used with Class I and II training equipment. See applicable weapon system T.O.s and associated reference manual for detailed guidance.

2.11.5.3. Coordinate with AFGSC for approval for all Class III training devices prior to construction. If Class III training devices are to be used in a powered up/power on configuration, they must be maintained in accordance with applicable weapon system T.O.s or CEMs.

2.11.5.4. Maintain accountability of Class III training aids per AFI 23-101, *Air Force Materiel Management*.

2.11.5.5. Use IMDS to document current status on all Class I, Class II and approved power on/up Class III training devices.

2.11.5.6. Coordinate a maintenance assistance request for Depot-level maintenance support when requirements exceed trainer or unit capabilities. See T.O. 00-25-107, *Maintenance Assistance* for further guidance.

**2.12. (ICBM) Team Chiefs.** Team chiefs are responsible for work accomplished by technicians they supervise on site or in-shop. Team chiefs have full authority to prohibit commencement or direct termination of any task. Team chiefs will:

2.12.1. Complete team chief and IMDS supply training prior to certification. **(T-2).**

2.12.2. Complete at least three supervised dispatches or in-shop maintenance work packages acting in a team chief capacity prior to certification. For MMT Team Chiefs, FTD progress checks during training are acceptable. **(T-2).**

2.12.3. **(576 FLTS)** Complete and pass applicable evaluations prior to performing aerospace vehicle or downstage maintenance tasks unsupervised. **(T-1).**

2.12.3.1. **(576 FLTS)** MMT field team chiefs will be evaluated performing team chief field duties related to FDE specific tasks for Post Boost Control System mate/demate. PSRE processing team chiefs will be evaluated on a destruct package checkout or installation task. **(T-2).**

2.12.3.2. **(576 FLTS)** MHT team chiefs will be evaluated performing a downstage emplacement, removal or roll transfer. Booster processing team chiefs will be evaluated on a destruct package checkout or installation task. (T-2).

2.12.4. Comply with pre-task briefing requirements in accordance with [paragraph 5.5](#). (T-2).

2.12.5. Review WRF for additional work orders that can be accomplished during scheduled maintenance and ensure they are added to work package in IMDS. Additionally, review the WRF to ensure current documented discrepancies do not impact the scheduled task. (T-3).

2.12.6. Ensure IMDS and AFGSC Form 246, *Multiple Dispatch, Pre-Dispatch/Approved, Dispatch Notification*, (if applicable) accurately reflect all team members prior to dispatching to the field or beginning work for in-shop tasks. (T-3).

2.12.7. **(N/A 576 FLTS)** Prior to departing base, call Flight Security Controller(s) of the flight(s) the team will be dispatching to and verify dispatch information accuracy and coordinate an estimated time of arrival. (T-3).

2.12.8. Coordinate actions, update status, delays and problems with MMOC. Additionally, notify MMOC of arrival and departure information. (T-3).

2.12.9. Comply with applicable ground, missile and explosive safety, nuclear surety requirements, Air Force Two-Person Concept, No-Lone zone requirements, security requirements, PRP, MPH, and code handling procedures. (T-0).

2.12.10. Ensure checkout, inspection, safe operation and care of vehicles, equipment, tools, and parts. (T-2).

2.12.11. Ensure technical data is available and used to complete tasks. (T-1).

2.12.12. Conduct T.O. and task review prior to beginning maintenance. As a minimum, review the task, applicable safety precautions and emergency procedures. (T-2).

2.12.13. Ensure all vehicles, equipment, and hand-carried items taken onto the Missile Alert Facility (MAF) or LF are properly searched for unauthorized personnel and material prior to entry. (T-1).

2.12.14. Apply “Find and Fix” philosophy as outlined in [Chapter 1](#). (T-3).

2.12.15. Notify MMOC of environmental compliance discrepancies. (T-1).

2.12.16. Notify MMOC as soon as possible upon discovery of Red-X or Red-W conditions or priority 1-4 discrepancies affecting LFs, MAFs or Base Command Post. (T-2).

2.12.17. Inspect work performed to clear Red-X or Red-W conditions and ensure repair is complete in order to clear Red-X or Red-W condition. Team chiefs must be identified on SCR to clear Red-X conditions. (T-2).

2.12.18. Coordinate site configuration and work order completion status with MMOC, MCC, and Codes Section (if coding actions were performed) prior to site back out. (T-3).

2.12.19. Debrief in-shop work before completion of each duty shift and debrief field work before dispatch completion in accordance with [paragraph 5.3](#) Immediately debrief items that



are below the unit's MEEL upon task completion. If timeline does not permit, debrief upon completion of crew rest if not previously accomplished by shop supervision. (T-2).

2.12.20. Certify Not Repairable This Station (NRTS) actions and conditions tags, as applicable. Team chiefs must be identified on SCR to certify NRTS actions and condition tags. (T-2).

2.12.21. If appointed in writing by the MXG/CC as a non-certified team chief, in addition to the authorized responsibilities above, non-certified team chiefs will:

2.12.21.1. Be qualified on the tasks being performed and will not operate outside of the scope of those operations assigned to them. (T-2).

2.12.21.2. Not be used to clear Red-X or -W, Non-Mission Capable (NMC) or Partially-Mission Capable (PMC) conditions or certify NRTS actions or condition tags unless specifically identified on SCR. (T-2).

**2.13. (ICBM) Technicians.** Technicians are responsible to team chiefs for designated tasks. Technicians will:

2.13.1. Maintain, control, checkout, inspect, and properly use and care for assigned tools, vehicles, and equipment. (T-2).

2.13.2. Use technical data to accomplish assigned tasks. (T-1).

2.13.3. Comply with applicable ground, missile and explosive safety, nuclear surety requirements, Air Force Two-Person Concept, No-Lone zone requirements, security requirements, PRP, MPH and code handling procedures. (T-0).

2.13.4. Apply "Find and Fix" philosophy as outlined in [Chapter 1](#). (T-3).

2.13.5. Ensure all items required to perform assigned tasks are available. Resolve any deficiencies with team chief before dispatching or beginning in-shop work. (T-3).

2.13.6. Notify team chief of environmental compliance discrepancies. (T-1).

2.13.7. Immediately notify the team chief of any condition perceived to be unsafe or dangerous. (T-1).

**2.14. (ICBM) Work Center Data Integrity Team Monitors.** DIT monitors must be a minimum 5-skill level and will:

2.14.1. Review the new work order report generated by Maintenance Management Analysis to validate errors. Each work order will be reviewed to identify any errors. (T-2).

2.14.2. Forward validated errors to the appropriate team chief for correction. Work center leadership will correct the errors if team chief is unavailable, however the team chief must be retrained on the error. (T-2).

2.14.3. Ensure corrections have been made in IMDS and forward corrective action reports to Maintenance Management Analysis within 3 duty days. (T-3).

2.14.4. Ensure errors identified during DIT meetings are corrected. (T-2).

**2.15. (ICBM) Cable Affairs Officers (CAOs).** CAOs are appointed to manage interactions with the general public concerning cable locations and excavations. CAOs will:



2.15.1. Maintain and manage Hardened Intersite Cabling System (HICS) Circuit Identification and Recording System (T-2). See T.O. 21M-LGM30F-2-20-1, *Hardened Intersite Cable System* (Sec III) for further guidance.

2.15.2. Monitor and track all activities affecting the HICS Right of Way (ROW) (such as highway or utility crossings, construction, earth moving, etc.) to ensure hardness integrity is maintained. (T-2). Notify the flight commander/chief of ROW deficiencies affecting HICS hardness integrity that cannot be resolved in a timely manner.

2.15.3. Conduct the HICS ROW surveillance program to identify and document erosion problems, HICS ROW gate and marker pole discrepancies, and encroachment problems. (T-2).

2.15.3.1. Examine each flight area ROW at least every 3 years. Document and track results. (T-2).

2.15.3.2. ROW surveillance can be completed by either the drive-over or fly-over method. If fly-over is used, alternate the method used for each inspection period. (T-3).

2.15.4. Maintain close contact with non-USAF personnel or agencies who cross or could cross, inundate, or otherwise affect the HICS ROW above or below the surface. (T-1). **Note:** System of Records Notice F021 AFSPC A, Cable Affairs Personnel/Agency Records applies. As a minimum, these contacts include:

2.15.4.1. Landowners and tenants.

2.15.4.2. Highway and road departments (federal, state, and county).

2.15.4.3. Public and private utilities (power, telephone, pipeline, water, etc.).

2.15.4.4. Contractors.

2.15.4.5. Federal, state, and local farm agencies (Farm and Home Administration, Farm Bureau, county agents, soil conservation agencies, etc.).

2.15.4.6. Municipal offices.

2.15.4.7. Railroads.

2.15.5. Maintain a mailing list of personnel and agencies indicated above according to AFMAN 33-322. Contact all personnel and agencies on the list by mail, at least every 3 years, to relay the following (T-2):

2.15.5.1. Emphasize the adverse effect cable cuts have on the defense effort.

2.15.5.2. Requirements and procedures for requesting consent-to-cross over or under the HICS ROW.

2.15.5.3. The necessity of keeping CAOs advised of any planned construction or earth-moving activities along the HICS ROW.

2.15.5.4. A request for updated information, such as additional names of tenants, changes in ownership, erosion problems, and known construction requirements. Use AF Form 3951, *Intercontinental Ballistic Missile Hardened Intersite Cable Right-of Way Landowner/Tenant Questionnaire*, to gather public information. (T-2).

2.15.6. Notify landowners or tenants in advance with details of any planned cable work on their property. In all cases where digging takes place, make every effort to contact the landowner. **(T-1).**

2.15.7. Ensure all non-routine maintenance of the ROW (e.g., erosion repair work, earth moving, cable lowering or relocation, etc.) is monitored and inspected.

2.15.8. Participate in the applicable state “One Call” program. When notified by the state “One Call” agency, CAO must fulfill cable locate requests and coordinate excavations near HICS ROW. **(T-0).**

2.15.9. Oversee HICS ROW maintenance and projects. **(T-2).**

2.15.9.1. Act as the single POC for all ROW deficiencies and ensure corrective actions are implemented by applicable agencies (Base Civil Engineering (BCE), contractors, HICS, etc.). **(T-2).**

2.15.9.2. Inspect all ROW problems (erosion, access and gate discrepancies, etc.) and determine corrective actions **(T-2).** See T.O. 21M-LGM30F-2-20-1 for further guidance and/or refer to applicable drawings.

2.15.9.3. Submit AF IMT 9, *Request for Purchase*, for contract support when BCE cannot support with in-house resources. **(T-2).**

2.15.9.4. Provide annual funding requirements for projects requiring contract support to the unit budget officer (excluding gate projects). These are included in the yearly financial plans, Program Element Code 11323F, under Electronic Equipment and Inter/Intra Site Cable Maintenance Element of Expense Identification Code funds. **(T-2).** AFGSC/A4C allocates funds for specific projects as they occur. The expenses generated by reimbursable projects are paid from funds pre-deposited by the crossing agency in the Deposit Fund Account.

2.15.9.5. Coordinate un-programmed project requirements with unit and base budget offices to immediately notify AFGSC/A4C, AFGSC/FM and AF/IMFC. **(T-3).**

2.15.9.6. Request Depot-level support when repair or project requirements are beyond base level capabilities **(T-2).** Refer to T.O. 00-25-107

2.15.10. Manage HICS ROW crossings requests in accordance with [paragraph 7.2](#) Coordinate with the installation Staff Judge Advocate when HICS crossings are projected in order to determine who has superior easement rights. In all cases, the USAF must comply with the terms of the easement. **(T-0).** When the question of superior easement determination cannot be resolved, the CAO forwards all supporting case documents to the AFGSC logistics division for resolution.

2.15.11. Submit requests to the BCE Real Estate Office to acquire additional ROW. These requests must contain legal descriptions, maps, and information on the real estate required and the date the CAO must receive notification of the new ROW acquisition. **(T-1).** **Note:** Purchase of additional ROW must include the necessary environmental analyses required by AFI 32-1015, *Integrated Installation Planning*, and environmental baseline studies required by AFI 32-9003, *Granting Temporary Use of Air Force Real Property*. **(T-0).**

2.15.12. Assist the Staff Judge Advocate when a damage claim is anticipated. Provide the Staff Judge Advocate details of possible damage to private property caused by USAF personnel and/or contractors performing USAF-related duties on or off the HICS ROW. **(T-1).**

2.15.13. Establish project and case files to maintain any actions, documents, and photographs pertaining to all HICS crossings, projects, or ROW problems. **(T-1).**

2.15.14. Maintain copies of all reimbursement billing documents for future reference should auditing or legal actions occur. Records will be maintained for a minimum of 10 years. **(T-1).** Refer to AFMAN 33-322 and the Air Force Records Disposition Schedule.

2.15.15. Oversee all HICS construction and siting requirements in accordance with T.O. 21M-LGM30F-2-20-1 and **paragraph 7.3** of this publication. **(T-1).**

**2.16. Cruise Missile Maintenance.** The following paragraphs are specific to cruise missile maintenance personnel. Cruise missile maintenance responsibilities are included in AFI 21-101, *Aircraft and Equipment Maintenance Management*, and AFMAN 21-200. Refer to those publications for additional responsibilities.

2.16.1. Operations Officer/Superintendent. The OO/SUPT will chair the weekly scheduling meeting. **(T-3).**

2.16.2. ALCM Flight CC/Chief. The ALCM flight commander/chief will:

2.16.2.1. Attend the weekly scheduling meeting. **(T-3).**

2.16.2.2. Certify absence of war reserve payload and notify AFGSC prior to any ALCM shipment. **(T-1).**

2.16.2.3. Monitor parts requisition status and enforce supply chain discipline in accordance with AFI 23-101. **(T-3).**

2.16.3. Work center/element NCOIC. The work center/element NCOIC will:

2.16.3.1. Track scheduled maintenance status and report issues to the OO/SUPT. **(T-3).**

2.16.3.2. Ensure the use of maintenance automated data systems, e.g. IMDS. **(T-1).**

2.16.3.3. Attend the weekly scheduling meeting. **(T-3).**

2.16.3.4. Ensure all personnel complete missile and weapons academic training, applicable missile and explosive safety training, and additional local requirements prior to performing operations. **(T-3).**

2.16.3.5. Identify bay chiefs and team chiefs by inserting a Training Business Area journal entry on each individual. **(T-3).**

2.16.4. Bay chief. Bay chiefs are directly responsible for ensuring technicians perform safe, secure, and reliable maintenance. Bay chiefs will:

2.16.4.1. Complete team chief training prior to performing bay chief duties. **(T-2).**

2.16.4.2. Verify task qualifications of team chief prior to task commencement. **(T-1).**

2.16.4.3. Ensure in-process inspections are accomplished as required. **(T-2).**

2.16.4.4. Verify source documents (work order, build-up sheets, etc.) prior to directing any task to validate the proper operation(s) is/are being performed on the correct end item(s). **(T-2).**

2.16.4.5. Ensure serviceable replacement components and/or TCTO kits are on hand, inventoried and inspected prior to starting maintenance. **(T-3).**

2.16.4.6. Actively monitor and control all on-going activities, assist maintenance teams, and perform proficiency checks as required. **(T-3).**

2.16.4.7. Ensure team chiefs complete and submit all required documents and reports upon completion of maintenance task(s) (i.e., work orders, inspection records, custody transfer documents, deficiency reports, etc.). **(T-2).**

2.16.4.8. Ensure actions are taken when abnormal conditions or defects requiring rejection of a missile, a component or associated component are discovered to ensure the safety of personnel, and security and reliability of the missile or component(s). Immediately report abnormal conditions or defects to the appropriate level of leadership for resolution before continuing the task. **(T-2).**

2.16.4.9. Verify completeness of Electronic Systems Test Set printouts prior to receipt by Missile Analysis in accordance with [para 8.2.7.1.2](#). **(T-3).**

2.16.4.10. Assist in developing maintenance schedules and plans. **(T-3).**

2.16.4.11. Update line number and Net Explosive Weight changes with Munitions Control as they occur. **(T-1).**

2.16.4.12. Certify weapon configuration records for launchers and pylons in accordance with AFI 21-204. **(T-1).**

2.16.5. Team Chiefs. The team chief is directly responsible for performance of safe, secure and reliable maintenance. Team chiefs will:

2.16.5.1. Complete team chief training requirements prior to performing team chief duties. **(T-2).**

2.16.5.2. Verify all technicians are task qualified prior to start of task. **(T-1).**

2.16.5.3. Be responsible for work accomplished by technicians performing maintenance under their supervision. Enforce compliance with No-Lone zone and Two-Person Concept requirements. **(T-1).**

2.16.5.4. Stop maintenance upon encountering an abnormal condition or identifying a defect requiring rejection of a missile, component or associated component and notify the bay chief for resolution before proceeding. **(T-1).**

2.16.5.5. Initiate weapon configuration records (build-up sheets) for launchers and pylons in accordance with AFI 21-204. **(T-1).**

2.16.5.6. Verify source documents prior to performing any task to validate the proper procedure(s) is/are being performed on the correct end item(s). **(T-2).**

2.16.5.7. Submit all required documents and reports upon completion of tasks (i.e., work orders, inspection records, custody transfer documents, DRs, etc.). **(T-3).**

2.16.5.8. Update line number and Net Explosive Weight changes with the bay chief as they occur. **(T-1).**

2.16.5.9. Conduct pre-task and visitors-casuals briefing prior to start of maintenance task(s) and as additional technicians or visitors-casuals join the operation. **(T-1).**

2.16.5.10. Ensure all items required to perform assigned task(s) are serviceable and readily available. **(T-3).**

2.16.5.11. Notify Munitions Control prior to starting tasks, when events warrant task stoppage, and upon completion of maintenance operations. **(T-3).**

2.16.5.12. Review applicable T.O. safety summaries with assigned technicians prior to beginning tasks or operations. Review task steps with assigned technicians prior to beginning all seldom performed tasks or operations or those tasks identified on the unit's key task list. **(T-2).**

2.16.6. Technicians. Technicians are responsible to the team chief for assigned tasks. Technicians will:

2.16.6.1. Ensure all items required to perform the task(s) are serviceable and in the immediate work area prior to beginning the task. **(T-3).**

2.16.6.2. Notify team chief or bay chief of environmental compliance and safety discrepancies. **(T-1).**

2.16.6.3. Ensure personal qualification(s) for task(s) to be performed and actively seek training opportunities to expand knowledge, ability, and proficiency. **(T-3).**

**2.17. (Added) Air Force Materiel Command (AFMC)** . As a supporting command for ICBM and cruise missiles, AFMC develops guidance and procedures that support the highest levels of safety, nuclear surety, security, and productivity. In addition to requirements in other publications, AFMC will:

2.17.1. **(Added-ICBM)** Establish a Missile Mishap Response Team (MMRT) to assist AFGSC with the technical expertise and equipment necessary to respond to an ICBM event outside the technical scope of an ICBM field unit.

2.17.2. **(Added-ICBM)** Develop guidance for the MMRT, which must include at a minimum: team composition, equipment, training, and the frequency and scope of exercise activities.

## Chapter 3

### ICBM MAINTENANCE UNITS

**3.1. Introduction.** This chapter outlines typical ICBM maintenance units. This chapter does not apply to cruise missile maintenance. This chapter applies to the 576 FLTS unless identified otherwise, but reference in conjunction with [Chapter 4](#).

**3.2. Maintenance Group.** In addition to leadership and administration, the MXG consists of QA and the MTS. In addition to QA requirements outlined in AFMAN 21-200, the appointed Product Improvement Manager will:

3.2.1. Execute deficiency reporting “originating point” responsibilities **(T-1)**. See T.O. 00-35D-54.

3.2.2. Coordinate with AFGSC logistics division on all AF Form 1067, *Modification Proposal* submissions. **(T-2)**.

**3.3. Maintenance Training Section.** The mission of the MTS is to conduct, direct, monitor, and schedule training for personnel administratively assigned to the MXG. The MTS is organized and executes requirements in accordance with AFI 36-2650, *Maintenance Training*. Additionally, the MTS will:

3.3.1. Manage and schedule ancillary training programs. Track ancillary training using IMDS. **(T-3)**.

3.3.2. Develop and distribute a schedule of future training classes in sufficient time for all agencies to determine requirements. **(T-3)**.

3.3.3. Monitor and schedule all non-technical training requirements in conjunction with work center supervisors. **(T-3)**.

3.3.4. Provide assigned agencies the training forecast and awaiting action listing. **(T-3)**.

3.3.5. Monitor overdue training and notify the appropriate level of supervision to correct training deficiencies. **(T-3)**. Ancillary training becomes overdue on the last day of the due month unless course curriculum dictates other.

3.3.6. Serve as the focal point for obtaining and scheduling missile maintenance related training quotas for courses conducted by outside agencies (on- or off-base). Use the AF IMT 3933, *MAJCOM Mission Training Request*, to request special training needs. Submit requests to applicable MAJCOM logistics division. **(T-3)**.

3.3.7. Manage assigned missile maintenance training programs. **(T-2)**.

3.3.8. **(N/A 576 FLTS)** Conduct the monthly training scheduling meeting and coordinate the FTD Annual Training Forecast with the MXG/CC and FTD personnel. **(T-1)**.

3.3.9. DELETED

3.3.10. Ensure an RTT program is established and provide overall management of the program. **(T-2)**.

3.3.11. Ensure unit trainers meet requirements per [paragraph 2.11.1](#). **(T-1)**.

3.3.12. **(Added)** Assign personnel to each journeyman training course slot in the FTD Annual Training Forecast no later than 90 days prior to the projected class start date. **(T-3)**.

3.3.13. **(Added)** Provide documentation of training prerequisite completion to the FTD no later than 30 days prior to the class start date. **(T-3)**.

3.3.14. **(Added)** Coordinate the AF Form 898 for non-journeyman courses in accordance with AFI 36-2650. **(T-2)**.

### **3.4. Maintenance Squadron.** MXS consists of the Maintenance Operations Flight and Resources Flight.

3.4.1. Maintenance Operations Flight. This flight consists of the Plans and Scheduling (P&S) section, MMOC, Maintenance Programs, and Maintenance Management Analysis (MMA).

3.4.1.1. The Maintenance Operations Flight Commander/Chief will:

3.4.1.1.1. Ensure accountability of PSREs, missile guidance sets, uninstalled missile motors, and other unit designated items in accordance with AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*. **(T-0)**.

3.4.1.1.2. **(N/A 576 FLTS)** Ensure development of EWO checklists and provide guidance during EWO planning. **(T-2)**.

3.4.1.1.3. Manage the WRF in conjunction with applicable flight commander/chief. **(T-2)**.

3.4.1.1.4. Ensure Single Point Failure and Operational Readiness Parts levels are established in accordance with AFMAN 23-122, *Material Management Procedures*. Coordinate with AFGSC logistics division for placement on NMC2. **(T-2)**.

3.4.1.1.5. Approve deferral of weapon system discrepancies. **(T-3)**.

3.4.1.1.6. Ensure PMC documentation of environmental compliance discrepancies that impact the LF or MAF. **(T-0)**.

3.4.1.1.7. Develop a process for the cannibalization of parts and ensure proper documentation of cannibalization actions in accordance with T.O. 00-20-2, *Maintenance Data Documentation*. Ensure any part cannibalized from a maintenance training system or Class III training device is checked out and certified prior to installation. **(T-2)**.

3.4.1.1.8. Chair the DIT and work order reconciliation meetings. **(T-3)**.

3.4.1.1.9. **(576 FLTS)** Manage the Mission Assurance Certification program. **(T-1)**.

3.4.1.1.10. **(576 FLTS)** Serve as liaison with 583 MMXS and BCE Mission Engineering. **(T-3)**.

3.4.1.1.11. Develop local procedures for debriefing outside agencies. **(T-3)**.

3.4.1.2. Plans and Scheduling Section. This section serves as the focal point for maintenance planning & scheduling requirements. P&S will:

3.4.1.2.1. In coordination with Security Forces, BCE, and Operations Groups, or other agencies as required by the MW/CC, develop, coordinate and publish maintenance schedules. **(T-2)**.

3.4.1.2.2. Coordinate resources and job assignments with applicable section OIC/NCOIC and MMOC. **(T-3).**

3.4.1.2.3. Hold daily and weekly scheduling meetings. The meeting will cover both dispatching and shop maintenance teams, including times and locations, as applicable. **(T-2).**

3.4.1.2.4. Finalize the daily schedule the day prior and the weekly schedule by Friday the week prior. Any schedule changes (except priority 1 maintenance) after schedules are finalized requires approval per AFGSC guidance. **(T-2).**

3.4.1.2.5. Upload daily schedules to NMC2 by close of business. **(T-3).**

3.4.1.2.6. Provide assistance to BCE in forecasting proposed alteration and construction affecting the weapon system. **(T-3).**

3.4.1.2.7. Maintain Programmed Depot Maintenance and other Depot-level program schedules in support of MAJCOM plans and requirements. **(T-2).**

3.4.1.2.8. Maintain LF and MAF periodic maintenance schedules. Once established, the due month for an LF or MAF inspection requirement shall not change. Coordinate changes that deviate the due date 60 days or more with AFGSC logistics division. **(T-2).**

3.4.1.2.9. Interface with BCE Missile Engineer for real property installed equipment Depot assistance. **(T-2).**

3.4.1.2.10. Hold coordination meetings prior to any RS and/or missile downstage movement in accordance with AFGSC guidance. **(T-2).**

3.4.1.2.11. Reconcile IMDS job standards with T.O. 21M-LGM30F-6, *Scheduled Inspection and Maintenance Requirements*, applicable commodity T.O.s, and CEMs at least semi-annually. Document the review on the AF IMT 2411, *Inspection Document*. **(T-2).**

3.4.1.2.12. Perform Aerospace Vehicle Distribution Office responsibilities in accordance with AFI 21-103. **(T-1).**

3.4.1.2.13. Develop and manage the TCTO, Master Change Log, modification and time change programs in accordance with T.O. 00-5-15, *Air Force Time Compliance Technical Order Process*. **(T-1).**

3.4.1.2.14. Forward TCTOs to the Flight Service Center of the Materiel Management Flight. **(T-3).**

3.4.1.2.15. **(N/A 576 FLTS)** Assist with development of war support and contingency plans. **(T-3).**

3.4.1.2.16. Provide a central collection point for maintenance data forms. Forward documents as directed by AFGSC. **(T-2).**

3.4.1.2.17. Maintain a site file for each LF and MAF that will include as a minimum:

3.4.1.2.17.1. Air Force Technical Order (AFTO) Form 95, *Significant Historical Data*. **(T-2).** At a minimum, maintain forms in accordance with T.O. 00-20-1 for



each item listed in **Table 3.1** when installed on an LF or MAF. (T-2).

3.4.1.2.17.2. Physical inventory sheet. (T-2).

3.4.1.2.17.3. AFTO Form 430, *Battery Periodic Inspection Maintenance Record*. (T-2). Upon receipt of an AFTO Form 430, verify battery serial numbers against IMDS. (T-2). Upload completed AFTO Form 430 to NMC2. (T-2).

**Table 3.1. AFTO Form 95 Minimum Item Listing.**

Part Number	National Stock Number	Nomenclature
TD102666-01	N/A	Booster Assembly, Missile, LGM30G
85000-102	1420-00-003-7274AH	Propulsion System, Guided Missile (Propulsion System Rocket Engine)
20100-101-X	1420-01-454-4922AH	Guidance Set
<b>Note:</b> X denotes any extension of part number.		

3.4.1.3. Missile Maintenance Operations Center. MMOC serves as the focal point for discrepancy reporting and is responsible for coordinating with appropriate agencies to ensure mission accomplishment. MMOC will:

3.4.1.3.1. Operate 24 hours per day, 7 days per week. (576 FLTS) A standby team can be used when MAF-01A is vacant. (T-2).

3.4.1.3.2. Direct all maintenance efforts performed by maintenance personnel to execute the daily schedule. (T-2).

3.4.1.3.3. Monitor status of each LF and MAF, uninstalled missile motors, and mission support equipment and vehicles designated on NMC2 for status reporting. (T-1).

3.4.1.3.4. Monitor the MEEL, Operational Readiness Parts, and Single Point Failure listing on NMC2 for adequate spare levels. Notify MXS OO/SUPT (576 FLTS/OO/SUPT) when levels fall below the designated minimums. (T-3).

3.4.1.3.5. Evaluate all reported fault conditions for NMC or PMC implications in accordance with MAJCOM listing, T.O. 21M-LGM30G-2-1-X, and AFI 21-103. (T-1). **Note:** Some Ground Maintenance Responses or Missile Operational Status Replies are automatically a PMC condition. Others may signify a PMC condition, but do not report as PMC until confirmed.

3.4.1.3.6. (N/A 576 FLTS) **Document MCC-approved status changes in IMDS, Force Status and Readiness, and NMC2 as required.** (T-1). The MCC is in command of the LF at all times and is the final authority in determining alert status through consultation with MMOC. Notify Base Command Post of MCC-approved status changes. (T-1).

3.4.1.3.7. (N/A 576 FLTS) Document all discrepancies that meet NMC or PMC criteria in the Force Status and Readiness module via secure network. (T-1).

3.4.1.3.8. (N/A 576 FLTS) Notify Base Command Post of situations that impact alert posture, Airborne Launch Control Center operational system tests, or other abnormal events that require operational reports outside the unit. (T-1).

3.4.1.3.9. Document new priority 1-4 discrepancies for LFs and support equipment, all LCC discrepancies called in by MCC, and BCE discrepancies. Assign maintenance priorities in accordance with AFGSC priority lists. **(T-2).**

3.4.1.3.10. Update LF and LCC status changes in IMDS as they occur. **(T-2).**

3.4.1.3.11. Prior to diverting technicians, advise the applicable section to verify team is task qualified, and ensure team has all required parts and tools to complete maintenance. Brief the team on the new task, safety, and security requirements. **(T-2).**

3.4.1.3.12. **(N/A 576 FLTS)** Coordinate with Missile Security Control when directing Security Forces to perform maintenance tasks at LFs. Ensure T.O.s are used when directing maintenance. **(T-1).**

3.4.1.3.13. Update changes to team departure and arrival times in IMDS. **(T-3).**

3.4.1.3.14. Monitor and review LF and LCC PMC conditions daily. Coordinate with owning work centers to correct documentation discrepancies and part requirements. **(T-2).**

3.4.1.3.15. Review all priority 1-4 discrepancies for validity and accuracy the duty day following creation. Review *all* priority 1-4 discrepancies for validity and accuracy weekly. Make corrections as required. **(T-2).**

3.4.1.3.16. Establish procedures for tracking new discrepancies during an IMDS outage and ensure IMDS is updated when outage is resolved. **(T-3).**

3.4.1.3.17. Process cannibalization requests. **(T-3).**

3.4.1.3.18. Conduct a daily Ground Maintenance Response/Missile Operational Status Reply cross-check and LCC Status cross-check with each manned LCC using the checklists provided on NMC2. **(N/A 576 FLTS).** Additionally, update shock isolator air compressor operating hours in IMDS. **(T-2).**

3.4.1.3.19. Respond to disaster situations in accordance with local procedures and support agreements. **(T-3).**

3.4.1.3.20. Develop and use quick reference checklists for EWO related actions, explosive operations, mishaps, severe weather warnings, disasters, and evacuations. Ensure checklists are reviewed at least annually **(EWO N/A to 576 FLTS).** **(T-2).**

3.4.1.3.20.1. Coordinate checklists with Codes Section, QA, and Base Command Post, as required. **(T-2).**

3.4.1.3.20.2. Coordinate all explosive, mishap, and nuclear surety related checklists with the wing weapons safety office. **(T-1).**

3.4.1.3.21. Maintain senior controller and site logs on NMC2 as follows **(T-2):**

3.4.1.3.21.1. Use senior controller and site logs to capture maintenance actions, technical engineering inputs and any other relevant actions coordinated during the course of maintenance.

3.4.1.3.21.2. Use senior controller and site logs to document site configuration prior to back out and site departure any time a team enters the Launch Support

Building, Launcher Equipment Room, Launch Control Equipment Building, MAF Support Building Equipment Rooms, or LCC. MMOC will conference call with the on-site team chief, MCC, and codes section (if coding actions were performed) and record all applicable information on the site log.

3.4.1.3.21.3. Review senior controller logs and site logs during shift changeover to ensure all controllers are aware of maintenance actions and requirements.

3.4.1.4. (N/A 576 FLTS) Maintenance Programs. Maintenance Programs serves as the MXG focal point for interaction with external support activities to ensure critical mission generation support. Maintenance Programs will:

3.4.1.4.1. Develop, maintain, and coordinate all local publications within the MXG. (T-2).

3.4.1.4.2. Coordinate with the MXG and unit superintendents to manage manpower authorizations for the MXG. (T-2).

3.4.1.4.3. Oversee local or functional support agreements applicable to the MXG in accordance with AFI 25-201, *Intra-Service, Intra-Agency, and Inter-Agency Support Agreements Procedures*. (T-2).

3.4.1.4.4. Develop and coordinate MXG commercial contracts as directed by the MXG/CC. (T-2).

3.4.1.4.5. Manage readiness reporting for the MXG in accordance with AFI 10-201, *Force Readiness Reporting*. (T-1).

3.4.1.4.6. DELETED

3.4.1.4.6.1. DELETED

3.4.1.4.6.2. DELETED

3.4.1.4.7. DELETED

3.4.1.4.7.1. DELETED

3.4.1.4.7.2. DELETED

3.4.1.4.7.3. DELETED

3.4.1.4.8. DELETED

3.4.1.4.8.1. DELETED

3.4.1.4.8.2. DELETED

3.4.1.4.8.3. DELETED

3.4.1.5. Maintenance Management Analysis (MMA). MMA tracks, analyzes, and presents information to help senior leadership assess the health of the unit's weapon systems and equipment. MMA serves as the MXG or 576 FLTS POC for IMDS issues and performs analyses to assess and improve unit performance. IMDS is the main source of information used by analysts to assess unit performance and capability. Additionally, MMA manages and ensures the accuracy of IMDS inputs and outputs. MMA will:

3.4.1.5.1. Provide information on analyses services and capabilities to units and supervision. **(T-1)**.

3.4.1.5.1.1. Coordinate with MTS and/or FTD for opportunities to provide training on analyses services and capabilities (examples include Maintenance Orientation, Team Chief Course, etc.). **(T-2)**.

3.4.1.5.1.2. Conduct and document quarterly visits to maintenance work centers and provide information on analyses services and capabilities. **(T-2)**.

3.4.1.5.2. Calculate maintenance metrics and compare unit performance against MAJCOM and locally developed goals (if applicable). **(T-1)**.

3.4.1.5.3. Develop products to track, monitor, and identify seasonal and cyclical trends at the group and squadron level. **(T-2)**.

3.4.1.5.4. Review maintenance data for anomalies, variances, and trends to identify areas requiring further study. **(T-1)**.

3.4.1.5.5. Assist unit leaders with the application and interpretation of maintenance data. **(T-1)**.

3.4.1.5.6. Serve as the IMDS Database Manager (DBM). **(T-1)**. The DBM will:

3.4.1.5.6.1. Serve as the focal point for IMDS modification/creation requests. **(T-1)**.

3.4.1.5.6.2. Provide expertise on IMDS for resolution of problems beyond the work center's control. Coordinate with the MAJCOM when problems exist that are beyond the scope of responsibilities of Host DBMs. **(T-2)**.

3.4.1.5.6.3. Ensure IMDS security is maintained in accordance with AFI 17-130, *Cybersecurity Program Management*. **(T-1)**.

3.4.1.5.6.4. Ensure support for tenant organizations and users. **(T-2)**.

3.4.1.5.6.5. Ensure scheduled Maintenance Information Systems (MIS) downtime is published to users. **(T-2)**.

3.4.1.5.6.6. Coordinate on matters pertaining to the interface of other automated systems within the MIS. **(T-2)**.

3.4.1.5.6.7. Control access to specific IMDS programs and subsystems. Audit permissions to IMDS profile annually and take appropriate measures when compromise is suspected. **(T-2)**.

3.4.1.5.6.8. Establish serial controlled item location and inventory in IMDS for asterisked items in the work unit code manuals. **(T-2)**.

3.4.1.5.7. Serve as the OPR for the Data Integrity Team. **(T-2)**. The DIT ensures the unit has complete and accurate data in the MIS, identifies and quantifies problems within the unit preventing complete and accurate documentation, and identifies and corrects the root causes for poor data integrity. MMA will lead and execute the DIT by performing the following functions:

3.4.1.5.7.1. Review all new work orders for accuracy each day. Forward work

orders with errors to work center DIT monitors for corrections. Track errors using NMC2. (T-2).

3.4.1.5.7.2. Review all debriefed work orders each duty day. Forward debriefed work orders with errors to work center DIT monitors for correction. Track errors using NMC2. Count the errors by detailed data record and enter number of errors by data record in NMC2. Only one error will be charged for each data record; however all data record errors will be recorded and broken down by category for trend analysis. (T-2).

3.4.1.5.7.3. MMA will ensure that all assigned DIT members are trained in the use of MIS applicable programs for the data integrity review/correction process. (T-2).

3.4.1.5.7.4. Hold DIT meetings to ensure workload requirements documented in IMDS are accurate and complete. (T-1). Work orders in IMDS require 100% review at least once a quarter. (T-2). Frequency and scope of meetings can be determined locally.

3.4.1.5.7.5. The DIT meetings will include representatives from each squadron under the MXG. It will include participation from Plans and Scheduling, MMOC, Decentralized Materiel Support, and Quality Assurance. (T-3). Other agencies may be required, as determined by MMA.

3.4.1.5.7.6. Provide a briefing to the MXG/CC of all DIT activities and results using the DIT briefing template, provided by the MAJCOM on NMC2, at least quarterly. (T-2).

3.4.2. Resources Flight. Resources Flight personnel perform off-equipment maintenance on electrical, environmental, power generation, pneumatic, and hydraulic systems of the weapon system; centrally store, issue, inspect and repair support equipment and special purpose vehicles; track and manage assigned support equipment and vehicle inspections, maintenance, and calibration requirements and ensure accurate tracking of spare missile guidance sets (if applicable). This flight consists of the Electronics Laboratory (ELAB), Mechanical and Pneudraulics Section (MAPS), Power, Refrigeration, and Electrical Section, and Vehicles and Equipment Section.

3.4.2.1. Electronics Laboratory. ELAB technicians inspect, troubleshoot and repair missile electronic and test equipment. They prepare electronic drawers for dispatch to LFs and MAFs. Additionally, ELAB technicians will:

3.4.2.1.1. Maintain a 24-hours per day, 7-days per week maintenance capability. (T-3).

3.4.2.1.2. Maintain a master file of LF and LCC unique strapping data documents and ensure it is backed up electronically. Update the master file after approved routine or emergency changes from the ICBM Systems Directorate. Retain letters or messages of approval as historical documents. (T-2).

3.4.2.1.3. (N/A 576 FLTS) Track spare missile guidance sets by serial and part number. (T-0).

3.4.2.2. Mechanical and Pneudraulics Section. MAPS technicians inspect, troubleshoot, and repair hoists, mechanical support equipment, pneumatic and hydraulic components,

weapon system components, support equipment, self-contained breathing apparatuses, and special purpose vehicles. Additionally, they maintain emergency response equipment (level A suits and communication equipment only). Furthermore, MAPS technicians maintain nuclear-certified payload transporters, RS handling gear, secondary door, A-Circuit, guided missile maintenance platforms, transporter erectors, cranes, hooks, lifting slings, etc. Finally, MAPS technicians operate and maintain the proof-load test facility.

3.4.2.3. (N/A **576 FLTS**) Power, Refrigeration and Electrical Section. Power, Refrigeration, and Electrical technicians inspect, troubleshoot and repair weapon system environmental control systems, power systems, electrical systems, support equipment, test equipment, and special purpose vehicles.

3.4.2.4. (N/A **576 FLTS**) Vehicle and Equipment Section. Vehicle and Equipment technicians manage assigned vehicles and equipment to meet maintenance requirements. Vehicle and Equipment technicians will:

3.4.2.4.1. Ensure availability of serviceable general and special purpose vehicles, cranes, and equipment to meet mission requirements. **(T-3)**.

3.4.2.4.2. Ensure vehicle and equipment availability, status, discrepancies, inspections and calibrations are accurately reflected in IMDS per T.O. 00-20-2. **(T-2)**.

3.4.2.4.3. Inspect each equipment load for completeness prior to and upon return from dispatch. Document any abnormalities, evidence of misuse or loss of equipment on the inventory receipt before accepting responsibility from maintenance teams. **(T-2)**.

3.4.2.4.4. Schedule RS handling equipment repair and inspections through Munitions Control and IMDS as applicable. **(T-3)**.

3.4.2.4.5. Update MEEL status on NMC2 for all owned equipment and vehicles, as applicable. **(T-2)**.

3.4.2.4.6. Inspect and perform minor equipment repair and fabrication as authorized and in accordance with applicable T.O.s. **(T-2)**.

3.4.2.4.7. Not clear Red-X or -W, NMC or PMC conditions or certify NRTS actions or condition tags unless specific personnel are identified on the SCR. **(T-2)**.

3.4.2.4.8. Maintain a 24-hours per day, 7-days per week capability to dispatch vehicles and equipment as required. **(T-2)**.

**3.5. Missile Maintenance Squadron.** MMXS personnel maintain the readiness of Minuteman III ICBMs and corresponding MAFs and LFs through the replacement of limited life components, munitions, missiles, reentry systems, and guidance sets. Additionally, MMXS personnel troubleshoot and repair security, electrical and communication systems. Furthermore, they perform coding operations, corrosion control and periodic maintenance. MMXS consists of Facilities Flight and Generation Flight.

3.5.1. **Facilities Flight.** Facilities Flight personnel maintain LFs and MAFs in optimal condition and ensure operational readiness by troubleshooting and repairing power and environmental systems, and performing periodic maintenance inspections, corrosion control and preventative maintenance actions. Additionally, they maintain and repair the HICS. Furthermore, the Facilities Flight Commander or Flight Chief will appoint the Cable Affairs

Officers to fulfill Cable Affairs responsibilities. **(T-3)**. The flight consists of the Facilities Maintenance Section (FMS), Corrosion Control, HICS, Cable Affairs, Survivable Systems Teams, and Missile Communications Maintenance (MCM).

3.5.1.1. Facilities Maintenance Section. FMS personnel perform preventive maintenance in accordance with the scheduled periodic maintenance program and perform on-site troubleshooting and repair of LF and MAF power and environmental systems. A Periodic Maintenance Team typically consists of at least eight 2M0X3 technicians. A Facilities Maintenance Team typically consists of at least two 2M0X3 technicians. Team structures can be adjusted based on maintenance requirements. Additionally, FMS technicians will:

3.5.1.1.1. Perform shotgun custodian duties **(T-1)**. Refer to AFI 36-2654, *Combat Arms Program* and AFMAN 21-201, *Munitions Management* for detailed guidance.

3.5.1.1.2. Provide for secure storage of the Programmable Logic Circuit Laptop Recovery Image Disk Set and a spare copy of the Wing-specific software disc in the T.O. Distribution Office. **(T-2)**.

3.5.1.2. Hardened Intersite Cabling Section. HICS technicians maintain cables connecting MAFs to LFs and to other MAFs by inspecting, troubleshooting and repairing buried cable and splice case assemblies, terminal splice cases, cable air dryers and correcting erosion issues. A HICS team typically consists of two to six 2M0X3 technicians. Team structures can be adjusted based on maintenance requirements.

3.5.1.3. Cable Affairs Section. Cable Affairs personnel oversee HICS ROW maintenance and projects and maintain close contact with non-Air Force personnel who cross, or could cross, the HICS ROW. They also manage HICS ROW crossing requests, construction, and siting, as well as cable locating and marking. A Cable Affairs team typically consists of at least two 2M0X3 technicians, or civilian equivalent. Cable Affairs does not require certified team chiefs for operations. Team structures can be adjusted based on maintenance requirements. Cable Affairs personnel will:

3.5.1.3.1. Ensure HICS Circuit Identification and Recording System records are maintained to reflect correct configuration. Retain a hard copy and electronic back-up of all Communication System Identification Record data to ensure information is always accessible. **(T-2)**.

3.5.1.3.2. Updates strip map records on both the hard copy and electronic maps. **(T-2)**.

3.5.1.4. Corrosion Control. Corrosion Control technicians perform treatment and repair of weapon system components, support equipment, special purpose vehicles and facilities at LFs, MAFs and on-base locations. A Corrosion Control Team typically consists of at least four corrosion technicians. Team structures can be adjusted based on maintenance requirements.

3.5.1.5. Survivable Systems Teams Section. Survivable Systems technicians maintain LCC and Launch Control Equipment Building blast valves, LCC blast doors, LCC and LF shock isolation systems, and operator chairs. A Survivable Systems Team typically consists of two to four 2M0X2 technicians. Team structures can be adjusted based on maintenance requirements.

3.5.1.6. Missile Communications Maintenance Section. MCM technicians perform preventative maintenance, troubleshooting and repair of multiple communication systems. They also prepare electronic drawers for dispatch to LFs and MAFs. An MCM team typically consists of at least two 2M0X1 technicians. Team structure can be adjusted based on maintenance requirements. MCM technicians will:

3.5.1.6.1. Maintain the following communications systems **(T-2)**:

3.5.1.6.1.1. Minuteman Minimum Essential Emergency Communications Network (MEECN) Program (MMP)/MMP-Upgrade (MMP-U) Extremely High Frequency Terminal and Very Low Frequency/Low Frequency at MAFs and the MMP/MMP-U Organizational Maintenance System at support base.

3.5.1.6.1.2. Survivable Low Frequency Communications System antenna and components at MAFs.

3.5.1.6.1.3. Ultra-High Frequency Radio Set Group (AN/GRC-208) and Dual Mode Antenna at MAFs.

3.5.1.6.1.4. Ultra High Frequency MILSTAR terminals (AN/FRC-175 at MAFs and AN/GSC-42 at Base Command Post) and AN/GRC-228 Time Distribution Subsystem (TDS) supporting the AN/FRC-175 and AN/GSC-42 terminals.

3.5.1.6.1.5. Strategic Automated Command and Control System at MAFs and Base Command Post.

3.5.1.6.1.6. Support Information Network (Security Control Center Line, MAF-LF Telephones, MAF Interphones, LF Interphones, and Dial Lines 1-2).

3.5.1.6.1.7. EWO-1 and EWO-2, Hardened Voice Channel, and Very High Frequency Radio Interface Circuit.

3.5.1.6.2. Perform communications equipment status reporting for their applicable systems in IMDS per AFI 21-103. **(T-1)**.

3.5.1.6.3. Operate the TDS and TDS Preprocessor to manage Time Standard Modules supporting Ultra High Frequency MILSTAR and MMP/MMP-U. **(T-2)**.

3.5.1.6.4. Issue and receive Time Standard Modules to/from dispatching and returning MCCs. **(T-2)**.

3.5.1.6.5. Report commercial phone line issues affecting their applicable systems to applicable agencies through the Communications Squadron and MMOC for resolution. **(T-2)**.

3.5.1.6.6. Maintain a master file of LF and LCC unique strapping data documents and ensure it is backed up electronically. Update the master file after approved routine or emergency changes from the ICBM Systems Directorate. Retain letters or messages of approval as historical documents. **(T-2)**.

3.5.2. **Generation Flight.** Generation Flight personnel generate and maintain assigned forces through the transportation, removal, installation and storage of Minuteman III boosters, PSREs, RSs (not storage) and missile guidance sets, coding of the ICBM weapon system, and



repair of security, electrical and power systems. The flight consists of Electro-Mechanical Teams (EMT), MHT and MMT Sections.

3.5.2.1. Electromechanical Teams. EMT technicians perform electronic, electromechanical, security and electrical system repair and coding of the weapon system. An EMT team typically consists of at least two 2M0X1 technicians, but can be adjusted based on maintenance requirements.

3.5.2.2. Missile Handling Teams. MHT technicians remove, install, transport, ship and receive the missile downstages. An MHT team typically consists of at least four 2M0X2 technicians, but can be adjusted based on maintenance requirements. They will also manage and track on-base storage of uninstalled missile motors. **(T-0).**

3.5.2.3. Missile Maintenance Team Section. MMT technicians remove, install and transport Minuteman aerospace vehicle equipment. They also perform maintenance on umbilical cables, suspension systems, and launcher closure systems. MMT assists MHT in the removal and installation of missile downstages. An MMT team typically consists of at least five 2M0X2 technicians, but can be adjusted based on maintenance requirements. Additionally, MMT will track spare PSREs by serial and part number. **(T-0).**

## Chapter 4

### ICBM SUPPORT UNITS

**4.1. 576th Flight Test Squadron.** The 576 FLTS actions and management efforts focus on executing the FDE program. The 576 FLTS contains Maintenance Operations Flight, Generation Flight, Resources Flight, and several contracted maintenance functions. Additionally, the 576 FLTS contains a QA Flight governed by AFMAN 21-200 and [paragraph 3.2](#).

4.1.1. Maintenance Operations Flight. Maintenance Operations Flight personnel maintain the status of all LF's and MAF's and provide the OO/SUPT with key information to assist in determining maintenance requirements and priorities. Additionally, they coordinate maintenance requirements with outside agencies. This flight consists of the MMOC, Scheduling Section, Maintenance Management Analysis, Contracting Office Representative personnel, and the UTTM. Refer to [paragraph 3.4.1.1](#) for Maintenance Operations Flight Commander/Chief requirements.

4.1.1.1. Missile Maintenance Operations Center. MMOC personnel direct, control, and implement the daily maintenance effort, utilize personnel and resources to ensure maximum readiness, and assist work centers in resolving conflicts. They are the primary interface with launch directors, Task Force personnel, and are the maintenance lead for FDE missions, weapon system testing and associated operations. Refer to [paragraph 3.4.1.3](#) for MMOC requirements.

4.1.1.2. Scheduling Section. Scheduling personnel serve as the focal point for maintenance planning and scheduling requirements. Refer to [paragraph 3.4.1.2](#) for Scheduling requirements.

4.1.1.3. Contracting Officer Representative. These personnel evaluate contracted maintenance functions and will establish minimum inspection intervals as prescribed in the applicable contract and perform additional surveillance inspections in response to customer complaints or others as deemed necessary.

4.1.1.4. Unit Technical Training Manager. The UTTM manages and oversees all technical training program applications. The UTTM will:

4.1.1.4.1. Manage assigned missile maintenance training programs. (T-3).

4.1.1.4.2. DELETED

4.1.1.4.3. Ensure an RTT program is established and provide overall management of the program. (T-2).

4.1.1.4.4. Ensure unit trainers meet requirements per [paragraph 2.11.1](#). (T-1).

4.1.1.5. Maintenance Management Analysis. MMA tracks, analyzes, and presents information to help senior leadership assess the health of the unit's weapon systems and equipment. MMA serves as the 576 FLTS POC for IMDS issues and performs analyses to assess and improve unit performance. IMDS is the main source of information used by analysts to assess unit performance and capability. Additionally, MMA manages and ensures the accuracy of IMDS inputs and outputs. Refer to [paragraph 3.4.1.5](#) for MMA requirements.

4.1.2. **Resources Flight.** Resources Flight personnel perform off-equipment maintenance on pneumatic, electronic, instrumentation and hydraulic systems associated with the weapon system. Additionally, they are responsible for limited on-equipment repair of LF and MAF subsystems and they install, checkout and repair unique instrumentation packages required for all FDE launches. The flight consists of the ELAB, MAPS, and the Instrumentation Lab.

4.1.2.1. Electronics Laboratory. ELAB technicians inspect, troubleshoot and repair missile electronic components and test equipment. They prepare electronic drawers for dispatch to LFs and MAFs.

4.1.2.2. Mechanical and Pneudraulics Section. MAPS technicians inspect, troubleshoot, and repair hoists, mechanical support equipment, pneumatic and hydraulic components, weapons system components, support equipment, and special purpose vehicles. MAPS technicians also maintain nuclear-certified payload transporters, RS handling gear, A-Circuit, guided missile maintenance platforms, transporter erectors, cranes, hooks, and lifting slings. MAPS technicians also operate and maintain the proof-load test facility.

4.1.2.3. Instrumentation Lab. Instrumentation technicians operate, checkout, troubleshoot and repair instrumentation flight packages and associated Launch Support System ground support equipment for the weapon system. Instrumentation Lab technicians will:

4.1.2.3.1. Coordinate and perform range safety flight certification of instrumentation flight packages. (T-2).

4.1.2.3.2. Analyze test data to detect deficiencies and provide test products to systems contractors, engineers, launch officials and range safety authorities. (T-2).

4.1.2.3.3. Integrate the instrumentation flight package to the missile guidance set. (T-2).

4.1.2.3.4. Provide technicians to serve as Monitor and Control Operator and Assistant Monitor and Control Operator on the FDE Launch Countdown Crew. As required, the work center may appoint an advisor to assist these personnel. (T-2).

4.1.2.3.5. DELETED

4.1.2.3.6. Ensure accurate tracking of spare Missile Guidance Sets by serial and part number. (T-0).

4.1.3. **Generation Flight.** Generation Flight personnel maintain assigned facilities, equipment and vehicles to meet FDE and additional mission requirements. Flight personnel ensure test flight assets are functionally checked and properly configured. The flight consists of EMT, MMT, MHT, and FMS.

4.1.3.1. Electromechanical Teams. EMT technicians perform electronic troubleshooting and repair as well as electromechanical and electrical system checkout. Additionally, they maintain missile communications systems, perform launch capability testing, and coding of the weapon system.

4.1.3.2. Facilities Maintenance Section. FMS technicians inspect, troubleshoot and repair LF and MAF weapon system environmental control systems, power systems, electrical systems, support equipment, test equipment, special purpose vehicles and performs preventive maintenance actions as part of the periodic maintenance program.

4.1.3.3. **Missile Maintenance Teams.** MMT personnel remove, install and transport aerospace vehicle equipment. They also perform maintenance on umbilical, suspension system and launcher closure system. MMTs assist MHT in the removal and installation of boosters. MMTs checkout and install destruct packages on PSREs.

4.1.3.4. **Missile Handling Teams.** MHT personnel remove, install, transport, ship, receive, and store boosters. Additionally, MHTs checkout and install destruct packages on boosters.

4.1.4. **Contracted Functions.** The 576 FLTS has several contracted functions, including Training Management Services, Vehicle Issues and Control, Equipment Issue and Control, LF Refurbishment, Corrosion Control Services, Environmental Management, and Materiel Control.

4.1.4.1. **Training Management Services (TMS).** TMS provides Unit Training Manager services in accordance with AFI 36-2670, AFI 36-2650, and established performance work statement (PWS). TMS will:

4.1.4.1.1. Manage assigned ancillary training programs and track using IMDS. **(T-2).**

4.1.4.1.2. Monitor overdue training and notify the appropriate level of supervision to correct training deficiencies. **(T-2).** Ancillary training courses become overdue on the last day of the month unless course curriculum dictates otherwise.

4.1.4.1.3. Manage unit's upgrade training program. **(T-2).**

4.1.4.1.4. Establish a consolidated task coverage file to show the work center responsible for performing each CFETP task. Verify a training capability exists for each CFETP technical task performed. **(T-2).**

4.1.4.1.5. Conduct CFETP and AF IMT 797, *Job Qualification Standard Continuation/Command JQS* reviews. **(T-2).**

4.1.4.1.6. Serve as the focal point for obtaining and scheduling missile maintenance related training quotas for courses conducted by outside agencies (on- or off-base). Use the AF IMT 3933 to request special training needs. Submit special training need requests to AFGSC logistics division with courtesy copies to 576 FLTS/CC. **(T-2).**

4.1.4.2. **Vehicle Issue and Control.** Vehicle Issue and Control provides services in accordance with established PWS. Vehicle Issue and Control will:

4.1.4.2.1. Ensure maximum availability of safe, reliable, General Services Administration, general and special purpose vehicles and cranes to meet mission requirements. **(T-2).**

4.1.4.2.2. Perform Vehicle Control Officer/NCO duties for the maintenance complex in accordance with AFI 24-302, *Vehicle Management*. **(T-2).**

4.1.4.2.3. Coordinate accomplishment of squadron vehicle inspections with base Logistics Readiness Squadron and General Services Administration. **(T-2).**

4.1.4.2.4. Submit all vehicle discrepancies and inspection and servicing requirements to base Logistics Readiness Squadron and General Services Administration. **(T-2).**

4.1.4.2.5. Maintain status of assigned vehicles using IMDS and report vehicle shortages to MMOC. (T-2).

4.1.4.2.6. Conduct special purpose vehicle courses (as required) as described in [Attachment 2](#). (T-2).

4.1.4.2.7. Perform annual review on all vehicle lesson plans. Ensure explosive laden vehicle lesson plans are routed to the unit safety monitor for review. (T-2).

**4.1.4.3. Equipment Issue and Control.** Equipment Issue and Control provides custodial accountability, issue, and recovery of assigned support equipment in accordance with established PWS. Equipment Issue and Control will:

4.1.4.3.1. Ensure maximum availability of serviceable equipment to meet mission requirements. (T-2).

4.1.4.3.2. Ensure equipment availability, status, inspections, calibrations, and discrepancies are accurately reflected in IMDS. Report equipment shortages to the MMOC. (T-2).

4.1.4.3.3. Use load lists as a load check sheet, maintenance team inventory check sheet, configuration control inventory and/or receipt. Any item with multiple components will have a detailed inventory included with the item. (T-2).

4.1.4.3.4. Inspect each equipment load for completeness prior to and upon return from dispatch. Document any abnormalities, evidence of misuse or loss of equipment on the IMDS inventory or receipt listings and update IMDS database, as required. (T-2).

4.1.4.3.5. Inspect and perform minor equipment repair and operator maintenance on owned TMDE. Limit repair to the replacement of minor hardware and treatment of minor corrosion. Process TMDE for calibration or repair through the Precision Measurement Equipment Laboratory. (T-2).

4.1.4.3.6. Process equipment for inspection or repair through maintenance processing. (T-2).

**4.1.4.4. LF Refurbishment.** The refurbishment contractor performs applicable LF refurbishment and refurbishment support of launch facilities to support FDE. All LF refurbishment shall be performed in accordance with applicable technical data. (T-1).

**4.1.4.5. Corrosion Control Services.** Corrosion control performs inspections, preventive maintenance, documentation and treatment to launch facilities, missile alert facilities, support equipment, and real property-installed equipment in accordance with applicable directives and established PWS. In addition to applicable directives, Corrosion Control Services must treat and paint all topside LF areas affected by launch blast damage and blast residue within 30-days post launch. (T-3).

**4.1.4.6. Environmental Management.** Environmental management serves as the unit liaison with BCE for identifying or resolving environmental compliance issues. They provide environmental services in accordance with established PWS.

**4.2. Technical Engineering Operating Locations.** Technical Engineering Operating Locations are established at all ICBM units, including the 576 FLTS. Technical Engineers will:

4.2.1. Complete a specialized Technical Engineering Course and apply the appropriate special experience identifier. **(T-2)**.

4.2.2. Assist in the resolution of abnormal weapon system faults. Advise Air Force Nuclear Weapons Center (AFNWC) and AFGSC logistics division of abnormal faults which have a weapon system impact. **(T-2)**. Technical Engineers are authorized to use the following in resolving faults:

4.2.2.1. All weapon system T.O.s including depot level T.O.s.

4.2.2.2. Special contractor data placed in the T.O. system with identifying T.O. numbers.

4.2.2.3. Depot instructions authorized for use by the appropriate Air Logistics Complex.

4.2.2.4. CEMs and as-built drawings.

4.2.2.5. Engineering data prepared or acquired by the Air Force in support of logistics and system support operation.

4.2.2.6. LF Activity Data and Inertial Performance Data.

**NOTE:** Technical Engineers will not direct maintenance teams to use procedures that are not contained in T.O.s or CEMs. **(T-1)**. Technical Engineering can direct task-qualified maintenance teams to obtain measurements from approved test points using approved test equipment while being referenced from T.O.s, CEMs, schematics or diagrams.

4.2.3. Review data, conduct studies and develop changes required to improve the weapon system. Coordinate findings with AFNWC and AFGSC logistics division. Coordinate real property/real property installed equipment configuration change requests through BCE and AFNWC missile engineering divisions and AFGSC logistics for approval or disapproval. **(T-2)**.

4.2.4. Direct all technical matters relating to the missile guidance set. Coordinate actions with AFNWC and the Boeing Guidance Repair Center as necessary. **(T-2)**.

4.2.5. Maintain capability to perform maintenance per memorandum of agreement with host unit. **(T-3)**.

4.2.6. Act as central point of contact for all maintenance activities involving System Engineering Level Evaluation & Correction Team. Accompany and assist this team during all on-site activities. **(T-3)**.

4.2.7. Attend EWO meeting as requested. When required, provide EWO planning team members who can provide accurate equipment and personnel availability status, assist in developing generation plans, and commit resources. **(T-3)**.

4.2.8. Publish a quarterly activity summary and forward copies to the applicable MXG/CC, 576 FLTS/CC, AFNWC/NI, AFGSC/A3/A4/A7, AFMC/A4/10, AFNWC/EN, 20 AF/A3/A4, AFNWC/NIET/SELECT. Summary will include current status of all projects, synopsis of all significant or unusual problems encountered and a brief recap of dispatch activity during the period. **(T-2)**.

4.2.9. Maintain qualification on ground, missile and nuclear safety requirements; security requirements; MPH procedures, critical component control, and other appropriate tasks. **(T-3)**.

4.2.10. Serve as unit focal point for gaining approval for alternate or substitute equipment and new exempt power devices. Submit requests through applicable MAJCOM logistics division per T.O. 21M-LGM30G-12 (T-2).

**4.3. Decentralized Materiel Support.** This agency is imbedded within each MXG and 576 FLTS to provide oversight of all supply related functions. Refer to AFI 23-101 for detailed responsibilities.

**4.4. \*4. 4.1. DELETED**

4.4.2. DELETED

4.4.3. DELETED

4.4.4. DELETED

4.4.5. DELETED

4.4.6. DELETED

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4.4.10. DELETED

4.4.11. DELETED

## Chapter 5

### MAINTENANCE PROGRAMS AND REQUIREMENTS

**5.1. General.** This chapter outlines maintenance programs and processes required to effectively execute the ICBM mission. This chapter does not apply to cruise missile maintenance. This chapter applies to the 576 FLTS except where noted.

**5.2. Maintenance Data Documentation.** These requirements outline maintenance data documentation. Refer to T.O. 00-20 series publications for specific procedures.

5.2.1. Document all weapon system, support equipment, and communication system discrepancies, including T.O. 21M-LGM30F-6 workload requirements and missile-related BCE discrepancies in IMDS. **(T-2).**

5.2.2. Refer to AFI 21-103 for additional communications system discrepancy reporting requirements.

5.2.3. Do not delete invalid discrepancies from IMDS unless entered in error. **(T-3).** If discrepancy was physically checked for validity, sign them off and indicate discrepancy was invalid without deleting.

**5.3. Debriefing.** Proper debriefing is critical to proper maintenance data collection and IMDS database integrity. Normally, team chiefs execute debriefing at the end of each shift or at dispatch completion. The debriefing team chief must:

5.3.1. Document all identified discrepancies in IMDS, to include those corrected during the course of maintenance or “Find and Fix” inspections. **(T-2).** Do not document discrepancies that do not affect the life or operation of the system. Consider form, fit, and function.

5.3.2. Reconcile all work orders completed, including those documented as corrected, and assign proper work unit and action taken codes. **(T-2).**

5.3.3. Initiate parts requests through IMDS for discrepancies requiring parts. **(T-2).**

5.3.4. Return all unused parts to supply for disposition, or if the parts are still required, for storage. **(T-1).**

5.3.5. Verify all identified priority 1-4 write-ups annotated by MMOC are correct and parts are ordered. **(T-2).**

5.3.6. Turn in all LF and LCC worksheets into P&S. **(T-2).** This includes, but is not limited to, completed AFTO Form 430s, site inventories, and AFTO Form 95s for items on **Table 3.1.** after installation on site.

5.3.7. Complete all maintenance data forms, including AFTO Form 350, *Repairable Item Processing Tag*, prior to turning in faulty equipment or other faulty items to the owning work center. **(T-3).**

**5.4. 5.5. Briefing Requirements.** Work centers will provide face-to-face pre-dispatch/pre-task briefings that include:

5.5.1. A work package review to ensure inclusion of all workable discrepancies. **(T-3).**

5.5.2. Confirmation that teams have all T.O.s, tools, vehicles, equipment, and parts. **(T-3).**



- 5.5.3. Current status of LF, MAF, and/or equipment. (T-2).
- 5.5.4. Review of task qualifications, PRP status, currency of ancillary training, and security requirements, as applicable. Ensure technicians have no issues that affect their PRP status. (T-0).
- 5.5.5. Review of Two-Person Concept requirements, location of all No-Lone zones, location of critical components within the No-Lone zone, and emergency procedures. (T-0).
- 5.5.6. Review of proper technical data usage and pertinent technical data changes. (T-1).
- 5.5.7. (N/A 576 FLTS) Verification of the AFGSC Form 246. (T-3).
- 5.5.8. Review approved routes of travel. (T-2).
- 5.5.9. Review sequence of tasks and fault flow. (T-3).
- 5.5.10. Ensuring the team is aware of all simultaneous task actions and communication requirements and coordinates with supporting work centers as necessary. (T-3).
- 5.5.11. Review of risk management information pertinent to the task or dispatch. (T-2).
- 5.5.12. Verification that team members were provided required crew rest in accordance with AFMAN 21-200 or governing directives. (T-1).
- 5.5.13. Review of the WRF for discrepancies that indicate the potential for atmosphere impacting conditions (e.g., environmental control system, make up air, and lower explosive limit sensor discrepancies). (T-1).
- 5.5.14. Ensuring two technicians are task qualified prior to performing any task on critical components listed in <https://wwwmil.nwd.kirtland.af.mil/mncl/index.cfm>, *USAF Nuclear Certified Equipment and Software*, and T.O. 21M-LGM30F-12-1, *Minuteman Nuclear Surety Procedures for the WS133AM/B Weapon System*. **Note:** Ensure two designated technicians oversee contractors performing maintenance tasks on critical components. (T-1).
- 5.5.15. (N/A 576 FLTS) Review of AF IMT 2435, *Load Training and Certification Document*, to ensure members performing nuclear weapons mate/demate and handling tasks have current certifications in accordance with AFI 21-204 (T-1).

**5.6. Special Certification Roster.** The SCR is a management tool providing a listing of personnel appointed to perform and/or inspect work of a critical nature. Personnel are not authorized to perform the tasks in **Table 5.1** unless appointed on the SCR. ICBM units will manage the SCR as follows:

- 5.6.1. Use the AF Form 2426, *Training Request and Completion*, or MAJCOM-approved form to add or remove personnel to the SCR. (T-2).
- 5.6.2. Section OICs/NCOICs will review the individual's qualifications and recommend addition by routing the AF Form 2426 (and waiver request, if applicable) to the approval authority listed in **Table 5.1** (T-3). For removal, the approval authority is the Section Chief, OIC, or NCOIC.
- 5.6.3. The OO/SUPT recommends approval to the MXG/CC or 576 FLTS/CC by signing the AF Form 2426. (T-3).

5.6.4. The MXG/CC or 576 FLTS/CC approves applicable items identified in **Table 5.1** based on the individual's experience and expertise. The MXG/CC may waive tasks identified in **Table 5.1**.

5.6.4.1. Waived personnel should be closely monitored and kept to a minimum required for mission completion.

5.6.4.2. The OO/SUPT retains copies of approved waivers until no longer required (i.e. personnel upgrade). Additionally, retain copies of the approved AF Form 2426 until SCR addition is complete. **(T-2)**.

5.6.5. Route AF Form 2426 with final approval to the MTS (TMS at 576 FLTS) to load or remove the approved course codes against the individual in IMDS. **(T-3)**.

**Table 5.1. Special Certification Roster (SCR) Requirements.**

ITEM	Mandatory SCR Item Titles	Prerequisites	Approval
1	Clear Red-X by Primary Air Force Specialty Code (AFSC)	Minimum SSgt (or civilian equivalent) with a 7-skill level (Note 1)	OO/SUPT (MXG/CC or 576 FLTS/CC must approve personnel that do not meet prerequisites)
2	Certify NRTS and Serviceable Tags		
3	In-Process Inspection by Primary AFSC		
4	Limited Calibration Approval (Test Measurement Diagnostic Equipment)		
5	Red-X Downgrade	MSgt or higher (or civilian equivalent)	MXG/CC (or 576 FLTS/CC)
6	MICAP Approval		
7	Cannibalization Authority	OO/SUPT (Note 2 & 3)	
8	Clear Red-X (Lost Tool)	OO/SUPT	
Notes: 1. May be waived by MXG/CC or 576 FLTS/CC. 2. The MXG/CC will be the only cannibalization authority for L-Cat launch facilities and does not need to be included on the SCR. <b>(T-3)</b> . 3. May be delegated to Production Superintendent, if used.			

**5.7. Major Maintenance Procedures.** Major maintenance is any activity that requires aerospace vehicle equipment maintenance within the launch tube with the launcher closure door open.

5.7.1. When performing major maintenance during holiday, weekend, or nighttime hours, the unit will verify adequate on-duty support agencies are immediately available, as well as, applicable AFGSC logistics division, Depot and contractor support personnel. **(T-1).**

5.7.2. A site supervisor will oversee all weekend, holiday, or nighttime major maintenance. **(T-2).**

5.7.3. The MXG/CC (or 576 FLTS/CC) may extend major maintenance activities in order to complete an in progress task.

**Table 5.2. (N/A 576 FLTS) ICBM Launcher Equipment Room Penetrated Time-Related Maintenance Restrictions.**

This table establishes ICBM on-site time related maintenance restrictions.

Rule	Time Period	Types of Maintenance Permitted
1	Daylight hours (See Notes 1, 3, 4, 5, 6 and 7)	All
2	Hours of darkness RS Installed (See Notes 2, 3, 4, 5, 6 and 7)	All priority 1-3 discrepancies
3	Hours of darkness No RS Installed (See Note 3)	All priorities, to include the off base training LF.
Notes: 1. MXG/CC will approve holiday or weekend major maintenance on a case-by-case basis. <b>(T-3).</b> 2. MW/CC will approve all nighttime major maintenance on a case-by-case basis (except as noted in Note 5). <b>(T-1).</b> 3. Daylight is the period of time 30 minutes before local area official sunrise until 30 minutes after local area official sunset. 4. At LFs with an RS installed, priority 3 periodic maintenance requiring launcher equipment room penetration should only be initiated during normal daylight hours. 5. Exception: Nighttime major maintenance may be accomplished to complete maintenance in progress that runs over into hours of darkness if approved by the MXG/CC or higher. 6. Maintenance requiring the site to be penetrated after official sunset or before official sunrise must be approved by the MXG/CC or higher. <b>(T-1).</b> This approval may be pre-coordinated. 7. If the Personal Alarm System becomes inoperable while on-site, maintenance will not be delayed while waiting for replacement.		

**Table 5.3. (576 FLTS) ICBM On-Site, Time-Related Maintenance Restrictions.**

This table establishes 576 FLTS time-related maintenance restrictions.

Rule	Time Period	Types Of Maintenance Permitted
1.	Daylight hours.	All (See Note 1, 2 and 4)
2.	Hours of darkness	All priorities Major maintenance is not permitted (See Notes 2, 3 and 4)
<b>Notes:</b> 1. 576 FLTS/CC will approve holiday or weekend major maintenance on a case-by-case basis. (T-3). 2. Daylight is the period of time 30 minutes before local area official sunrise or 0700, whichever is earlier, until 30 minutes after local area official sunset or 1900, whichever is later. 3. Exceptions: - Launch contingency support. - Refurbishment activities to support an accelerated launch schedule. - AFGSC may direct additional exceptions. 4. Nighttime major maintenance may be accomplished to complete maintenance in progress that runs over into hours of darkness.		

**5.8. (N/A 576 FLTS) Standby Procedures.** Standby teams must be available to respond to priority 1 maintenance, 24 hours per day, 7 days per week. (T-2).

5.8.1. Establish a minimum standby of two teams per day capable of responding to priority 1 maintenance. MMOC has authority to dispatch these teams on all priority 1 maintenance requirements. If teams are used for other maintenance, plan for teams to work lower priority maintenance that can be easily stopped if priority 1 maintenance is required.

5.8.2. DELETED

5.8.3. MCM will maintain a 24-hour standby capability to respond to Base Command Post Strategic Automated Command and Control System outages. (T-3).

**5.9. Stop-Use Procedures.** When equipment or vehicle conditions are discovered that pose significant risk to personal injury or equipment damage, units may direct stop-use until investigated and resolved. AFGSC will publish procedural guidance.

## Chapter 6

### ICBM TRAINING REQUIREMENTS

**6.1. General.** The MXG and 576 FLTS commander are ultimately responsible for all maintenance training within their units. MTS is the single point of contact for maintenance training within the MXG. The UTTM is the single point of contact for maintenance training within the 576 FLTS.

**6.2. Ancillary Training Requirements.** See [Attachment 2](#) for ICBM maintenance specific ancillary training courses and requirements.

**6.3. Five Skill-Level Upgrade Training Program.** Technicians assigned to FTD-trained work centers for five-skill level upgrade training will be entered in a phased training program. (T-2). Non-FTD work center technicians will be trained in accordance with AFI 36-2651. (T-1).

6.3.1. Phase I consists of all required ancillary training, vehicle qualifications, and enrollment in the applicable Career Development Course. Technicians will be entered in Phase I training upon arrival, after First Term Airman's Center orientation, if applicable. (T-2).

6.3.2. Phase II Continuation Training consists of hands-on qualification training. (T-2). The goal for new maintenance personnel is to start Phase II training no later than 6 months after arrival on station.

6.3.3. The owning work center will load master task lists for EMT, FMS and MMT technicians in the Training Business Area and assign FTD instructors as trainers. (T-3).

**6.4. Recurring Technical Training.** The applicable OIC/NCOIC will ensure a RTT program is established for all qualified technicians in accordance with this instruction. (T-2).

6.4.1. RTT will be conducted on a semi-annual basis by a qualified instructor or trainer. (T-2). Work center trainers conducting RTT, QA, and FTD personnel are exempt from this requirement.

6.4.2. Technicians will be entered in the RTT program when they are eligible for quarterly proficiency evaluations in accordance with AFMAN 21-200. (T-2).

6.4.3. QA, FTD instructors, work center trainers, and production work center supervision will meet to determine the task(s) to be trained. The production work center supervisor will make the final task selection. (T-3). Tasks may be tailored to a specific technician or team or applied across a work center.

6.4.4. Training sessions, including student man-hours, will be documented in IMDS. (T-2).

6.4.5. (N/A 576 FLTS) FTD will accomplish RTT for EMT, FMS and MMT sections. EMT, FMS and MMT work center supervision will submit RTT requests to FTD through MTS. (T-2).

**6.5. Special Qualification Training.** The MXG or 576 FLTS/CC may direct training to correct trends or address specific issues identified through QA evaluations. Additionally, the section OIC/NCOIC may request special qualification training based on upcoming requirements (i.e. Simulated Electronic Launch Minuteman, Hardness Surveillance Evaluation Program, Code

Change) and will be coordinated in advance. Submit special qualification training requests to FTD through MTS, if applicable.

#### **6.6. Lesson Plans (DELETED).**

**6.7. Training Requirements.** The following requirements are outlined for any personnel who conduct training:

6.7.1. Training may be conducted on serviceable support equipment or weapon system sub-components to meet work center training needs.

6.7.2. **(576 FLTS)** If required, RS mate/demate and handling training will be conducted in accordance with AFI 21-204. (T-0).

6.7.3. Only certified technicians will perform tasks with an operational RS in accordance with AFI 21-204. **(T-1).**

6.7.4. Do not insert faults in operational LFs, MAFs, or Launch Support Centers. **(T-1). Note:** Faults may be inserted in designated off-base trainers provided proper site configuration can be verified at completion of training dispatch. **(576 FLTS)** LFs and Launch Support Centers are considered operational after launch capability tests have been accomplished. MAFs are considered operational after configuration for a test launch. Faults will not be inserted on MAF-01A without 576 FLTS/CC approval. **(T-3).**

6.7.5. Ensure IMDS reflects current site or equipment configuration. **(T-1).**

6.7.6. Faults may be inserted in support equipment or weapon system subcomponents not installed on an operational LF or MAF provided proper configuration can be verified at completion of training. Coordinate configuration changes with appropriate agencies.

6.7.7. Comply with briefing and debriefing requirements and the “Find and Fix” philosophy. **(T-3).**

6.7.8. **(N/A 576 FLTS)** Remove, repair, and replace training may be conducted at any LF designated as the off-base trainer.

**6.8. Training Systems and Devices.** Maintenance training systems and training devices are maintained through an AFNWC-managed contract. For training systems and training devices not governed by this contract, see [paragraph 2.11.5](#). [Paragraph 2.11.5](#) applies to both FTD instructors and Non-FTD trainers.

**6.9. (Added) Scheduling Maintenance Training.** This section outlines requirements for scheduling FTD maintenance training.

6.9.1. **(Added)** Annual Training Forecast. The FTD Annual Training Forecast is the primary scheduling vehicle for scheduling EMT, MMT, and FMS journeyman courses. To build the annual training forecast the FTD and MTS will conduct an annual training forecast meeting and publish the training forecast in accordance with [paragraph 6.9.1.2](#) **(T-1).**

6.9.1.1. **(Added)** Annual Training Forecast Meeting. The MTS and FTD will conduct an annual training forecast meeting no later than 31 July to govern the next fiscal year. **(T-1).** At this meeting, the FTD and MTS will:

6.9.1.1.1. **(Added)** Review previous year’s annual forecast and discuss issues with meeting requirements. **(T-3).**

- 6.9.1.1.2. **(Added)** Establish the number of courses required to meet the fiscal year demand as published in the MMCL. **(T-1)**.
- 6.9.1.1.3. **(Added)** Plan and project each course start and completion date based on FTD course control documents. **(T-1)**.
- 6.9.1.2. **(Added)** The MXG/CC, MTS Superintendent, and FTD Detachment Superintendent will review and approve the annual training forecast, ensuring the forecast is published no later than 1 September. Changes to the forecast after publishing will require the schedule to be reviewed and approved again. **(T-1)**.
- 6.9.2. **(Added)** Monthly Training Scheduling Meeting. The monthly training scheduling meeting is used to project personnel into FTD courses, address issues with supporting the annual training forecast and other training initiatives for the following month. The MTS Superintendent will:
  - 6.9.2.1. **(Added)** Conduct the meeting by the 10th duty day of each month. **(T-3)**.
  - 6.9.2.2. **(Added)** Ensure, at a minimum, the meeting attendees:
    - 6.9.2.2.1. **(Added)** Identify/review forecasted personnel to attend courses projected in the annual training forecast for courses starting within 90 days. **(T-1)**.
    - 6.9.2.2.2. **(Added)** Review the previous month's training deviations and discuss solutions. **(T-3)**.
    - 6.9.2.2.3. **(Added)** Forecast courses and project personnel for other FTD training requirements (e.g. driver's training, special qualification training, etc.) using the AF Form 898 in accordance with AFI 36-2650. **(T-1)**.
  - 6.9.2.3. **(Added)** Publish and file meeting minutes and provide copies to all attendees. **(T-3)**.

## Chapter 7

### HICS MAINTENANCE AND SUSTAINMENT

**7.1. Introduction.** This chapter outlined requirements for Cable Affairs Officers to manage HICS maintenance and surveillance. CAO responsibilities are outlined **Chapter 2**.

**7.2. HICS ROW Crossings.** The CAO ensures the HICS is not endangered by ROW crossings. Crossings are classified according to whether or not the government has superior easement rights.

7.2.1. Crossings without Government Superior Easement Rights (Lesser). Required actions depend on whether HICS lowering or relocation is required due to the crossing activity.

7.2.1.1. If no cable lowering or relocating is required, the CAO must advise the crossing agency that the CAO must be notified 72 hours before work begins, crossing work must be restricted to coordinated locations, intentionally severing the HICS is a criminal offense and could result in legal action according to Title 18, United States Code, Section 1362 and repair costs for negligent severing or damage to the HICS will be billed to the crossing agency. **(T-0)**.

7.2.1.2. The CAO must schedule teams to locate and stake the cable in the crossing area and monitor the crossing work. **(T-1)**.

7.2.1.3. If cable lowering or relocating is required, it must be accomplished at government expense. **(T-1)**. The CAO will seek assistance from HICS personnel, BCE, and contract support (in that order). **(T-3)**.

7.2.2. Crossings with Government Superior Easement Rights. Before any agency is permitted to cross the HICS, that agency must ask for consent-to-cross. The agency must agree to the reimbursement procedures, when applicable, before the crossing can begin. **(T-1)**. CAOs can grant conditional crossing consent if no problems are encountered and crossing restrictions are observed. Consent-to-cross notification, reimbursement, issuance, and follow-on procedures are outlined below:

7.2.2.1. Consent-to Cross Notification. The CAO must advise the crossing agency, by letter, that they cannot cross the ROW where the USAF has the superior easement except in a manner not involving physical or electronic interference with the cable. They must also provide details of their planned activity so the CAO can determine whether cable lowering or relocation is required, and any requirement to relocate the cable to preclude interference from crossing agency's crossings will be done by the USAF at the crossing agency's expense. Reimbursement procedures must be included in the letter. **(T-1)**.

7.2.2.2. Consent-to-Cross Reimbursement. Where the USAF has superior in rights and must lower or relocate the HICS cable due to the crossing agency's activity, the crossing agency must reimburse the USAF. **(T-1)**. In these cases, the reimbursement procedures in AFI 65-601, Volume 1, *Budget Guidance and Procedures*, apply. The CAO must:

7.2.2.2.1. Provide reimbursement details to the crossing agency explaining they must pre-deposit sufficient funds to cover the cost, payable to the local Defense Accounting Office (DAO). **(T-1)**. Also, advise the party that they must pay any claims filed as a result of activity associated with the crossing.



- 7.2.2.2.2. Provide a cost estimate to the crossing agency, containing at a minimum, the military and/or civilian man-hours (by grade), material required (standard cost), commercial equipment required (number of hours, type), travel, and engineering costs. **(T-1).**
- 7.2.2.2.3. Ensure the cost estimate letter clearly states that the crossing agency must provide additional pre-deposits if actual expenditures exceed the estimate. Pre-deposit must be made before work commences. **(T-1).**
- 7.2.2.3. Consent-to-Cross Issuance. When the crossing agency has agreed to the reimbursement procedures, the CAO will notify the BCE Real Estate Office by letter of the specific easements involved and a request for that office to issue a consent-to-cross to the crossing agency with at least the following provisions stated **(T-1):**
- 7.2.2.3.1. Crossing criteria.
  - 7.2.2.3.2. Reimbursement details, as provided by CAO (when applicable).
  - 7.2.2.3.3. A statement that any USAF work (lowering or relocation) must be complete before the crossing agency crosses the easement.
  - 7.2.2.3.4. The requirement for the crossing agency to notify the CAO at least 48 hours in advance of their crossing.
  - 7.2.2.3.5. Liability for damages.
  - 7.2.2.3.6. If the USAF relocates the cable, the crossing agency must purchase, in the name of the USAF, any additional ROW needed. At no time will the USAF relinquish its superior easement rights to facilitate highway or utility construction. **(T-1).** Purchase of additional ROW in the name of the USAF must include the necessary environmental analyses required by AFI 32-9003. **(T-0).**
- 7.2.2.4. Follow-on actions. Record day-to-day expenditures associated with the project. **(T-1).** Coordinate with base DAO to ensure funds are available for project completion. In no case may expenditures continue prior to availability of funds to cover the expenses. **(T-2).**
- 7.2.2.4.1. Forward requests for additional pre-deposits, as necessary, to the crossing agency with an information copy to the base DAO.
  - 7.2.2.4.2. Compute the total project cost after completion. The final cost accounting must substantiate the transfer of funds from the applicable deposit fund account in order to cover the cost of general accounting and finance, civilian pay, standard cost of material consumed, commercial equipment use charged as billed and travel costs. **(T-2).**
  - 7.2.2.4.3. Forward a copy of the final computation to crossing agency and the base DAO for final resolution of the pre-deposit fund. **(T-2).**
  - 7.2.2.4.4. Retain a copy of the final reimbursement computation and all supporting documentation. Obtain copies of collection and disbursement documentation from the base DAO. **(T-1).** **Note:** Process reimbursements in a similar manner if the crossing agency is another government agency other than the USAF. In this case, reimbursable expenses are limited to civilian pay, material, travel, and contractual services.

**7.3. HICS ROW Construction and Siting.** In addition to requirements found in T.O. 21M-LGM30F-2-20-1, the following requirements apply:

- 7.3.1. The location of the HICS must be positively identified before work commences. **(T-1).**
- 7.3.2. Rerouting, relocating, or splicing in additional HICS should be made only as a last resort. **(T-3).**
- 7.3.3. When HICS relocating or lowering is unavoidable, to maintain separation criteria, 4 inches of select backfill must surround the cable. **(T-2).** Refer to T.O. 21M-LGM30F-2-20-1 for further protection requirements.
- 7.3.4. Blasting activities are permitted provided the cable is not at risk of sustaining physical damage. See T.O. 21M-LGM30F-2-20-1 for detailed technical guidance.
- 7.3.5. For underground power cables with a potential difference of greater than 2400 volts to ground, (e.g., Windfarm collection grid lines) increase the minimum separation to at least 24 inches from the cable with crossing angles at 90 degrees.
- 7.3.6. New utilities should be installed at a 90-degree crossing angle when possible.
- 7.3.7. Construction permits should not be issued for crossings within 50 feet of HICS splice locations.
- 7.3.8. Communications cables must have a minimum separation of 12 inches from the HICS. The minimum crossing angle is 30 degrees.
- 7.3.9. Pipelines must have a minimum separation of 12 inches from the HICS. **(T-2).** Although the crossing angle is not critical, a minimum angle of 30 degrees is desirable to lessen the possibility of damaging the HICS during the crossing.
- 7.3.10. Power cables must have a minimum separation of 18 inches from the HICS. The minimum crossing angle is 30 degrees. Underground power cables with a potential difference of 2400 volts to ground must have a metallic sheath. **(T-2).**
- 7.3.11. Highway and railroad crossing criteria are stated in applicable drawings. When more practical to leave the HICS in place, waivers of this criteria must be granted by AFGSC/A4C. **(T-2).**
- 7.3.12. Installation of aerial transmission line towers or poles shall not be within 100 feet of the HICS, if possible. The separation, required to avoid HICS damage during tower or pole installation, may be waived at the discretion of the CAO. The electrical effect of 60 Hertz power transmission lines parallel to the HICS is negligible.
- 7.3.13. Dam and pond construction over the HICS will be avoided whenever possible. When unavoidable, the CAO must ensure no HICS splices remain in inundated areas.

## Chapter 8

### CRUISE MISSILE MAINTENANCE UNITS

**8.1. Introduction.** This chapter identifies roles and responsibilities applicable to cruise missile maintenance management. This chapter does not apply to ICBMs or the 576 FLTS. [Chapter 2, paragraph 2.16](#) contains cruise missile management responsibilities.

**8.2. Cruise Missile Maintenance Sections.** All cruise missile maintenance activities are aligned under a munitions squadron. The following sections comprise the cruise missile functions.

8.2.1. Missile Maintenance performs on- or off-equipment maintenance on assigned missile systems, missile-pylon or launcher interface electronics, interface test trainer, and associated support equipment.

8.2.2. **(2 MUNS)** Launch Gear Maintenance performs on- or off- equipment maintenance and inspection on assigned launch gear and equipment. Additional levels of launch gear maintenance may be delegated to shops as required by the flight chief.

8.2.3. Weapons/Missile Support performs all supply functions, manages consolidated tool kit, TMDE, hazardous material programs, assigned support equipment, and a consolidated T.O. library.

8.2.4. Pylon Loading Adapter/Launcher Loading Adapter Maintenance performs periodic and unscheduled maintenance, repairs, receives and ships assigned Pylon Loading Adapters/Launcher Loading Adapters and if designated, provides the capability to store and handle assigned missiles or weapons.

8.2.5. Verification and Checkout Equipment performs periodic and unscheduled on- and off-equipment maintenance, repair, modification and calibration of assigned electrical test equipment. Specifically, this section performs maintenance on locally assigned automated or semi-automated test equipment and provides field-level authorized general-application electrical maintenance support at the discretion of the flight chief.

8.2.6. **(509 MUNS)** Verification and Checkout Equipment performs on- or off-equipment maintenance of assigned Rotary Launcher Assemblies, applicable Analysis functions in [paragraph 8.2.7](#) and applicable Training functions as outlined in [paragraph 8.2.8](#) in addition to the functions identified in [paragraph 8.2.5](#).

8.2.7. Analysis. The Analysis section compiles and validates source data generated by maintenance activities, maintains historical documentation, performs trend analysis on systems affecting missile performance and compiles and disseminates analysis products as required. Missile Analysis will:

8.2.7.1. At a minimum, collect source data from the following and validate for accuracy and completeness:

8.2.7.1.1. Maintenance data documentation collected per T.O. 00-20-2. **(T-2)**.

8.2.7.1.2. Electronic Systems Test Set test printouts (or digital equivalents) for Empty Rotary Launcher Assembly and Common Strategic Rotary Launcher, Level 1, Operational Flight Load, Missile Interface Test (MIT), Loaded Pylon Test (LPT),

Empty Pylon Test (EPT), Loaded Launcher Test (LLT), Empty Launcher Test (ELT), and Inertial Navigation Element (INE) Auto-calibration. **(T-2).**

8.2.7.1.3. Missile, interface test trainer, launch gear, component, and test equipment historical records. **(T-2).**

8.2.7.1.4. Flight line Systems Interface Test (SIT) Fault Data Recording printout when used in place of LLT/LPT. **(T-2).**

8.2.7.2. Maintain and update historical information for assigned missiles, interface test trainers, launch gear, components, and test equipment as required by T.O. 21M-AGM86-6-1, *Technical Manual Inspection Requirements USAF Series AGM-86 Missiles*. **(T-1).** Adhere to these additional requirements:

8.2.7.2.1. In addition to T.O. 00-20-1 requirements for serially tracked items, the following are required historical entries; acceptance inspections, captive flight hours flown aboard aircraft, elapsed time indicator reading (if applicable), narrative for all removal actions to include reason for removal (failed test number & values if applicable) and employee number of individual performing actions. **(T-2).**

8.2.7.2.2. Supplemental historical records are required for engines and select missile components listed in T.O. 21M-AGM86-6-1. These records must remain with the missile or interface test trainer records while the component is installed. **(T-2).**

8.2.7.2.3. Missile or interface test trainer records will contain the part number and serial number of all serially controlled items listed in the applicable -06 T.O. Use of the printed parts tracked screen from IMDS is acceptable. **(T-2).**

8.2.7.2.4. For time change items not recorded in an automated maintenance data documentation reporting process, include the part number, serial number, lot number, date of manufacture and time change due date. Additionally, the missile must have the fuel date annotated on the AFTO Form 95. **(T-2).**

8.2.7.2.5. Electronic Systems Test Set printouts must be maintained for each missile and empty or loaded launcher or pylon for the most recent test conducted. Printouts may be abbreviated as allowed by T.O.s, but must be maintained intact as printed or digital, if available and include Unit Under Test identification, serial number, test date, employee number of technician who performed the test and test result. If printouts are missing or not intact as printed, a memorandum from the flight commander/chief must accompany the test run in historical records. **(T-2).**

8.2.7.2.6. INE auto-calibration printouts must be maintained in each missile's respective record file for the most recent successful calibration. **(T-2).** If INE auto-calibration is performed while installed on a launcher or pylon, the original copy is kept with the launcher or pylon records and only as much of the Electronic Systems Test Set printout as required to fulfill the requirements of this paragraph must be copied for inclusion in the individual missile(s) records.

8.2.7.2.7. Auto-calibration dates for INEs received through supply will be derived from the INE AFTO Form 95 utilizing the Acceptance Test Procedure date. **(T-2).**

8.2.7.3. Annually, review automated and manual AFTO Form 95 records in accordance with T.O. 00-20-1. Validate IMDS inventory and configuration control during this review. **(T-2).**

8.2.7.4. Develop tracking and documentation methods to be used when equipment, missiles, or launch gear remains assigned to your unit but is located at a deployed location. **(T-2).**

8.2.7.5. Perform trend analysis of diagnostic testing results to determine high failure and most-likely-to-fail items to aid in test and missile systems troubleshooting. Develop and use “repeat/reoccur rate” and “cannot duplicate rate” metrics to identify trends. **(T-2).**

8.2.7.6. Track and record the following tests on a monthly and cumulative annual basis **(T-2)**:

8.2.7.6.1. Empty Launcher Test (ELT)/Empty Pylon Test (EPT).

8.2.7.6.2. Loaded Launcher Test (LLT)/Loaded Pylon Test. (LPT)

8.2.7.6.3. System Interface Test (SIT)/Missile Interface Test (MIT)

8.2.7.6.4. Missile Level I, II tests.

8.2.7.6.5. Component Level III tests.

8.2.7.6.6. The record will identify if the test was a Type A test or a Type B test. **(T-2).** A Type A test confirms serviceability following scheduled maintenance or following upload of missiles. A Type B test confirms faults that occurred following upload on aircraft or during a LLT, LPT, SIT, MIT, or INE calibration.

8.2.7.6.7. The record will specify the root cause of all test failures and corrective actions taken. **(T-2).** If troubleshooting is ongoing, do not report failure data; carry over test failure results to the following month’s report.

8.2.7.6.8. The record will identify if faults are inherent failures or induced failures. **(T-2).** An inherent failure is a confirmation of prior event failure or initial failure found during Level I or II missile tests, or ELT/EPT tests and the defective components is identified for repair or replacement. An induced failure is caused by personnel error, test hardware, test software, or failures induced by test equipment.

8.2.7.6.9. The record will identify if a retest passes or if SIT/MIT faults are not confirmed in the resulting Level I or ELT/EPT test. **(T-2).**

8.2.7.7. Develop and distribute the following analysis products:

8.2.7.7.1. Monthly Maintenance Summary Report. Build this report using data tracked in [paragraph 8.2.7.6](#) This report must include the tests ran, test station used, and test # failures with corrective actions. Additionally, engine status will be annotated to include number of serviceable on hand, number ready to turn in, and serial numbers of those removed and installed by tail number for the month. Send report to the AFGSC no later than the 15th of the following month. **(T-2).**

8.2.7.7.2. Weekly Status Report. At a minimum, report must include the individual missile and launch gear inventory, status, inspections due, TCTO status, build-up (installed on launch gear), missile expenditure and gain/loss information, training

missiles and the CNU-617/E container inventory. Send this report to AFGSC no later than 1200hrs (CST) Thursday of each week. **(T-2).**

8.2.7.7.3. 6-Year Engine Replacement Forecast. In coordination with the Missile Maintenance Section, Missile Analysis will develop a 6-year engine replacement forecast to evenly distribute the engine shipment and overhaul workload. Forecast will be updated annually and indicate a monthly replacement schedule for the next fiscal year and annual requirements for subsequent 5-year period. Submit annual forecasts to AFGSC by 15 Jan. **(T-2).**

8.2.7.7.4. 10-Year Pyrotechnic Device Replacement Forecast. In coordination with Missile Maintenance Section, develop and maintain a 10 year rolling pyrotechnic device replacement forecast to evenly distribute workload and ensure maximum availability. Forecast will be updated at least annually and indicate a monthly replacement schedule for the next fiscal year and annual requirements for subsequent years. Submit annual updated forecasts to AFGSC by 1 Sep for programming through the Cartridge Activated Device/Propellant Actuated Device office. **(T-2).**

8.2.7.7.5. Transfer Documents. Historical documents and automated products are sent with missiles, launch gear, replaceable units or equipment when transferred. **(T-2).**

8.2.7.7.6. Expenditures. For expended missiles or components, transfer all historical documentation and automated products to the Cruise Missile Program Office (AFNWC/NDM). The last entry must indicate mission number, location (range) and date of missile termination. **(T-1).**

8.2.7.7.7. Automated Test Equipment weekly status report will include at a minimum: Electronic Systems Test Set, Missile Radar Altimeter Test Assembly, Air Data Test Set, and Portable Automatic Test Equipment Calibrator, Signal Data Converter, and Cooling Control Unit status. **(T-2).**

8.2.8. Training Section. Training section personnel are responsible for all initial, recurring, team chief, and ancillary training requirements for the unit. Responsibility for training section requirements and execution will be assigned to a responsibility center independent of cruise missile maintenance sections. **(T-2).** Training Section personnel will:

8.2.8.1. Establish and manage a trainer qualification program. **(T-2).**

8.2.8.2. Establish and manage lesson plans for each unit discipline. **(T-2).** Lesson plans are only required for technical tasks (on-equipment tasks governed by technical data) in the section's master task list.

8.2.8.2.1. Review lesson plans annually or when an affecting publication or system changes occur. **(T-2).**

8.2.8.2.2. Route lesson plans through applicable work centers, QA, and flight commander/chief. **(T-3).**

8.2.8.3. Establish and manage a RTT program, special purpose vehicle training program, and Team Chief Training Course. **(T-2).**

8.2.8.4. Establish a Maintenance Academics Training program. All supervisors, technicians, team chiefs, trainers and evaluators are required to complete initial and annual training. **(T-2).**

8.2.8.4.1. Tailor this training to the unit's needs, however at a minimum it must include an overview of applicable AFIs, weapon system safety rules, operating instructions, and weapon system T.O.s; inspection requirements as outlined in AFI 90-201, *The Air Force Inspection System*; security and PRP requirements; and individual responsibilities and reporting requirements. **(T-2).**

8.2.8.4.2. Initial training will be completed prior to performing any weapon system maintenance task. **(T-2).**

8.2.8.5. Manage unit's ancillary training requirements and provides classroom training as required. **(T-3).**

8.2.8.6. Establish pre-requisites, if required, for entry into training courses to minimize training delays. **(T-3).**

8.2.8.7. Establish and maintain class folders for initial training courses. Class folders will include at a minimum a class roster, documented feedback sessions, and training deviations and deficiencies. **(T-3).**

### **8.3. Management Programs.**

#### **8.3.1. Container Management.**

8.3.1.1. Container Marking. All containers, when inspected and verified as empty, will be marked with the word EMPTY on the lower section of the container and all Department of Transportation markings will be removed. After installing a missile and prior to shipment, ensure that all markings are in place and the missile serial number is marked on the lower section of the container. **(T-1).**

8.3.1.2. Container Sealing. Containers will be sealed when certified as empty or loaded with a missile. Seal numbers will be documented in IMDS. **(T-2).**

#### **8.3.2. Training Device Management.**

8.3.2.1. On the internal surface of panels and all removable training components of the ALCM maintenance trainer, "For Training Use Only" must be clearly stenciled in red. **(T-2).**

8.3.2.2. Training assets must be segregated from war reserve and non-war reserve assets by physical separation or a readily visible sign(s). **(T-1).**

8.3.2.3. Maintain an ALCM maintenance trainer panel and component inventory for each training missile assigned. **(T-2).**

#### **8.3.3. Weapons Configuration Records.**

8.3.3.1. When building up a pylon or rotary launcher, prepare a configuration record to reflect the association of missiles, ejector racks, and impulse cartridges with the pylon or launcher. This record is built and signed by the team chief and visually verified and signed by the bay chief. This record becomes a source document for the location and configuration

of the missiles and components loaded on the associated launch gear. Store these records with the AFTO Form 95 for the associated pylon or rotary launcher. **(T-2).**

8.3.3.2. Visual verification exception: Upon replacement of a single item on the configuration record, it is not necessary to disassemble components for the sole purpose of obtaining component data if it is available on a previous certified configuration record. A whole new record will be prepared and certified upon any component change. **(T-2).**

KELVIN D. McELROY, Colonel, USAF  
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## Attachment 1

## GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

*References*

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- T.O. 21M-LGM30F-2-20-1, *Hardened Intersite Cable System*, 20 March 2015
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- AFGSCI 13-5301, Volume 5, *Wing Code Controller and Handler Standardization, Evaluation, and Training*, 11 April 2017
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- AFI 10-2501, *Air Force Emergency Management Program*, 19 April 2016
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- AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*, 16 December 2016
- AFI 21-101, *Aircraft and Equipment Maintenance Management*, 21 May 2015
- AFI 21-204, *Nuclear Weapons Maintenance*, 17 December 2015
- AFI 23-101, *Air Force Materiel Management*, 12 December 2016
- AFI 24-302, *Vehicle Management*, 26 June 2012
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AFI 36-2651, *Air Force Training Program*, 3 January 2019

AFI 36-2654, *Combat Arms Program*, 13 January 2016

AFI 36-2670, *Total Force Development*, 25 June 2020

AFI 63-125, *Nuclear Certification Program*, 24 July 2017

AFI 65-601, Volume 1, *Budget Guidance and Procedures*, 24 October 2018

AFI 90-201, *The Air Force Inspection System*, 20 November 2018

AFI 91-101, *Air Force Nuclear Weapons Surety Program* 15 August 2014

AFI 91-202, *The US Air Force Mishap Prevention Program*, 24 June 2015

AFMAN 17-1203, *Information Technology (IT) Asset Management (ITAM)*, 18 May 2018

AFMAN 21-200, *Munitions and Missile Maintenance Management*, 9 August 2018

AFMAN 21-201, *Munitions Management*, 26 March 2019

AFMAN 23-122, *Materiel Management Procedures*, 14 December 2016

AFMAN 33-363, *Management of Records*, 1 March 2008

AFMAN 91-201, *Explosives Safety Standards*, 21 March 2017

AFPD 21-1, *Maintenance of Military Materiel*, 1 August 2018

AFPD 21-2, *Munitions*, 25 June 2018

DoD S-5210.41-M, *Nuclear Weapon Security Manual*, 13 July 2009

*Title 18, United States Code, Section 1362, Destruction Of Government Property -- Malicious Mischief -- Communication Lines, Stations Or Systems*

### ***Prescribed Forms***

AF Form 3951, *Intercontinental Ballistic Missile Hardened Intersite Cable Right-of Way Landowner/Tenant Questionnaire*

### ***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

AF Form 1067, *Modification Proposal*

AF Form 2096, *Classification/On-The-Job-Training Action*

AF Form 2426, *Training Request and Completion*

AFGSC Form 246, *Multiple Dispatch/Pre Dispatch/Approved Dispatch Notification*

AF IMT 2411, *Inspection Document*

AF IMT 2435, *Load Training and Certification Document*

AF IMT 3933, *MAJCOM Mission Training Request*

AF IMT 797, *Job Qualification Standard Continuation/Command JQS*

AF IMT 898, *Field Training Requirements Scheduling Document*

AF IMT 9, *Request for Purchase*

AFTO Form 350, *Repairable Item Processing Tag*

AFTO Form 430, *Battery Periodic Inspection/Maintenance Record*

AFTO Form 95, *Significant Historical Data*

### ***Abbreviations and Acronyms***

**AFGSC**—Air Force Global Strike Command

**AFI**—Air Force Instruction

**AFMAN**—Air Force Manual

**AFMC**—Air Force Materiel Command

**AFNWC**—Air Force Nuclear Weapons Center

**AFPD**—Air Force Policy Directive

**AFSC**—Air Force Specialty Code

**AFTO**—Air Force Technical Order

**ALCM**—Air Launched Cruise Missile

**BCE**—Base Civil Engineering

**CAO**—Cable Affairs Officer

**CC**—Commander

**CD**—Deputy Commander

**CEM**—Civil Engineering Manual

**CFETP**—Career Field Education and Training Plan

**DAFI**—Department of the Air Force Instruction

**DAO**—Defense Accounting Office

**DBM**—Database Manager

**DIT**—Data Integrity Team

**DoD**—Department of Defense  
**ELAB**—Electronics Laboratory  
**ELT**—Empty Launcher Test  
**EMT**—Electro-Mechanical Team  
**EPT**—Empty Pylon Test  
**EWO**—Emergency War Order  
**FDE**—Force Development Evaluation  
**FLTS**—Flight Test Squadron  
**FMS**—Facilities Maintenance Section  
**FTD**—Field Training Detachment  
**HICS**—Hardened Intersite Cabling System  
**ICBM**—Intercontinental Ballistic Missile  
**IMDS**—Integrated Maintenance Data System  
**INE**—Inertial Navigation Element  
**LCC**—Launch Control Center  
**LF**—Launch Facility  
**LLT**—Loaded Launcher Test  
**LPT**—Loaded Pylon Test  
**MAF**—Missile Alert Facility  
**MAJCOM**—Major Command  
**MAPS**—Mechanical and Pneudraulics Section  
**MCC**—Missile Combat Crew  
**MCM**—Missile Communications Maintenance  
**MEECN**—Minimum Essential Emergency Communications Network  
**MEEL**—Minimum Essential Equipment List  
**MHT**—Missile Handling Team  
**MICAP**—Mission Capable  
**MILSTAR**—Military Strategic, Tactical Relay  
**MIS**—Maintenance Information System  
**MIT**—Missile Interface Test  
**MMA**—Maintenance Management Analysis  
**MMCL**—MAJCOM Mandatory Course List

**MMOC**—Missile Maintenance Operations Center  
**MMP**—Minuteman MEECN Program  
**MMP**—U - MMP Upgrade  
**MMRT**—Missile Mishap Response Team  
**MMT**—Missile Maintenance Team  
**MMXS**—Missile Maintenance Squadron  
**MPH**—Missile Potential Hazard  
**MTS**—Maintenance Training Section  
**MW**—Missile Wing  
**MXG**—Maintenance Group  
**MXS**—Maintenance Squadron  
**NMC**—Non-Mission Capable  
**NMC2**—Air Force Nuclear Munitions Command and Control  
**NCO**—Noncommissioned Officer  
**NCOIC**—Noncommissioned Officer in Charge  
**NRTS**—Not Repairable This Station  
**OCR**—Office of Collateral Responsibility  
**OIC**—Officer In Charge  
**OO**—Operations Officer  
**OPR**—Office of Primary Responsibility  
**OSHA**—Occupational Safety and Health Administration  
**P&S**—Plans and Scheduling  
**PMC**—Partially-Mission Capable  
**PRP**—Personnel Reliability Program  
**PSRE**—Propulsion System Rocket Engine  
**PWS**—Performance Work Statement  
**QA**—Quality Assurance  
**ROW**—Right-Of-Way  
**RS**—Reentry System  
**RTT**—Recurring Technical Training  
**SCR**—Special Certification Roster  
**SIT**—Systems Interface Test

**SUPT**—Superintendent

**TDS**—Time Distribution Subsystem

**TCTO**—Time Compliance Technical Order

**TMDE**—Test Measurement Diagnostic Equipment

**TMS**—Training Management Services

**T.O.**—Technical Order

**TTP**—Tactics, Techniques, and Procedures

**UTTM**—Unit Technical Training Manager

**WRF**—Workload Requirements File

### *Terms*

**Cannibalization**—The authorized removal of a specific assembly, subassembly, or part from one weapon system, system, support system, or equipment end item for installation on another end item to satisfy an existing supply requisition and to meet priority mission requirements with an obligation to replace the removed item. Refer to T.O. 00-20-2.

**Class I Training Equipment**—Distinct end items of training equipment specifically designed, developed, fabricated and assembled to meet training objectives. These items require configuration control and logistic support.

**Class II Training Equipment**—Weapon system parts, components and end items used for training purposes in its original configuration. Support equipment includes tools and test equipment used for training purposes in the original configuration. These items will retain their supply classification identity and be maintained accordingly.

**Class III Training Equipment**—Items designed to show a concept or portray the function of an end item without the actual working medium. Examples include animated parts, cutaways, exploded displays, and models.

**Deferral**—Any IMDS discrepancy which is deemed as not cost effective or practical to repair as approved by the Maintenance Operations Flight Commander/Chief.

**Fault**—Any act that impairs a subsystem or renders serviceable components unserviceable. A fault can be inserted by a trainer/instructor or caused by a system malfunction.

**Force Status and Readiness**—Computer program used to inform Higher Headquarters of ICBM sortie status. Sortie status defined as an A-Cat (required on alert, launch capable with targeting), F-Cat (scheduled off-alert, non-launch capable sortie on low-priority target), or an L-Cat (non-deployed LF, no ICBM present).

**Minimum Essential Equipment Listing**—A listing of the minimum number of vehicles and equipment items, listed individually, to support the unit's mission. When items fall below the designated minimum, maintenance or management actions are required to restore the unit's mission to fully capable.

**Missile Potential Hazard**—An abnormal situation or condition in the weapon system or support equipment that cannot be resolved by the unit with standard procedures and requires immediate

Higher Headquarters and engineering assistance to develop approved procedures to recover to a stable configuration that alleviates the potential for equipment damage and/or injury or death of personnel.

**Not Repairable This Station**—A condition that identifies when an end item or subassembly is not repairable by the unit because of maintenance restrictions and/or limitations in technical data or equipment. A certified team chief, appointed on the SCR, must make the declaration an item is to be NRTS.

**Red-W**—Indicates that the aerospace vehicle, equipment, or support equipment is inoperative for its intended use and requires careful attention because of a condition. The item cannot be used for its intended purpose until the malfunction is corrected and the item can be used without further damage. This requires the symbol to be cleared by a certified team chief, appointed on the SCR.

**Red-X**—Indicates that the aerospace vehicle, equipment, or support equipment is considered unsafe or unserviceable and is not to be used until the unsatisfactory condition is corrected and the symbol cleared by a certified team chief, appointed on the SCR.

**Training Deficiency**—When student(s) do not receive training on all items specified in the training standard prior to course graduation. There are many situations/circumstances that may result in a training deficiency, such as broken/unavailable equipment or a shortage of instructor personnel required to teach a specific objective, unit, or block in the course.

**Training Deviation**—Day-to-day deviations for events such as appointments, functions, or unforeseen course interruptions. A few examples of situations include severe weather, illness, and equipment and/or weapon system malfunction.

**Workload Requirements File**—IMDS product used by a work center to identify all discrepancies assigned to a particular work center or a particular site or piece of equipment.

**Attachment 2****TRAINING REQUIREMENTS**

**A2.1. (N/A 576 FLTS) . Cold Weather Indoctrination.** Applies to: All personnel that travel to the missile field.

Frequency: One time.

OPR: Determined locally.

Remarks: Content determined locally.

**A2.2. Maintenance Management Training.** Applies to: All 2M0XX, 21MX, 62XX, and appropriate civilian personnel.

Frequency: One time.

OPR: MTS/TMS.

Remarks: Ensure personnel understand AFGSC instructions, AFMAN 21-200 and 21-202 which apply to the maintenance organization.

**A2.3. Maintenance Standardization and Evaluation Program Orientation Course.** Applies to: All personnel subject to proficiency evaluations.

Frequency: One time, must be accomplished prior to technicians performing any maintenance.

OPR: QA.

Remarks: Determine content locally.

**A2.4. Deficiency Reporting.** Applies to: All maintenance technicians and production work center supervisors and managers.

Frequency: One time.

OPR: QA.

OCR: MTS/TMS.

Remarks: Include the purpose, scope and specific responsibilities within the deficiency reporting system. Emphasize the need for proper use of the deficiency reporting system, general reporting requirements, and exhibit processing procedures, report processing, contact and action point responsibilities, and follow-up actions.

**A2.5. Cardiopulmonary Resuscitation.** Applies to: Work Center OIC/NCOICs and below who perform maintenance or individuals who directly supervise maintenance.

Frequency: As specified by commercial training program being used.

OPR: MTS/TMS.

**A2.6. Convoy Commander Training.** This training is intended for all eligible NCOs or Officers prior to missile booster convoy commander certification.

Frequency: As determined by AFGSC

OPR: AFGSC.

OCR: MHT.

Remarks: The training will be outlined in MAJCOM guidance and MXG/576 FLTS Convoy Movement Plan. The training will be standardized and applicable training will be annotated in IMDS.



**A2.7. Team Chief Training.** Applies to: All Team Chiefs.

Frequency: One time.

OPR: MTS / UTTM.

Remarks: Emphasize the managerial and leadership requirements of the team chief position.

**A2.8. (N/A 576 FLTS) Nuclear, Biological and Chemical (NBC) Mask.** Applies to: All personnel who penetrate Launcher Equipment Rooms to perform maintenance.

Frequency: One time.

OPR: MTS.

Remarks: This training covers how to properly store, use, and inspect the mask in accordance technical directives

**A2.9. (N/A 576 FLTS) Shotgun Training Program.** Applies to: All personnel who penetrate Launcher Equipment Rooms to perform maintenance.

Frequency: Annual.

OPR: Combat Arms Training Management.

OCR: MTS.

**A2.10. Commercial Vehicle Operations Training.** Applies to: Operators of special purpose vehicles and tractor-trailers.

Frequency: One time.

OPR: FTD (576 FLTS Vehicle Issue and Control Services section).

Remarks: Training covers commercial vehicle facts and principles, vehicle inspections, coupling and uncoupling operations, tire change procedures, and a vehicle controls skills test with on-road driving requirements. Safety and proper technical data are stressed throughout the course.

**A2.11. Special Purpose Vehicle Operator Payload Transporter Course.** Applies to: Commercial vehicle operators who operate payload transporters.

Frequency: One time

OPR: FTD (576 FLTS Vehicle and Control Services section).

Remarks: Training covers payload transporter specific aspects of vehicle inspection, connection and disconnection operations, and contains a vehicle control skills test with on-road driving requirements. Safety and proper technical data usage are stressed throughout the course.

**A2.12. (N/A 576 FLTS) Electromagnetic Pulse Hardness Awareness Training.** Applies to: All 2M0XX, 21XX, 62XX, and appropriate civilian personnel.

Frequency: One time.

OPR: AFGSC.

Remarks: <https://367trss.hill.af.mil/Courses/Airframe?weaID=ICBM> (Course Code G3MKU00TVT0001).

**A2.13. (N/A 576 FLTS) EWO Familiarization Training.** Applies to: All MMOC, P&S, Technical Engineering personnel, OO/SUPT, flight commanders/chiefs, production work center OICs, NCOICs, production managers, and QA Evaluators.

Frequency: Annual (MMOC, P&S and QA Evaluators) One-Time (all others, unless duty title changes).

OPR: Maintenance Operations (Schedules training).

OCR: Operations Group EWO Plans (Provides training).

Remarks: Conduct training within 60 days of job assignment. Operations Plans will determine course content.

**A2.14. Corrosion Control.** Applies to: All 2M0XX, 21XX, 62XX, and appropriate civilian personnel.

Frequency: Annual for dispatching personnel; One-time for others who do not dispatch or perform corrosion work. Personnel assigned to the Corrosion Control Shop are exempt from this requirement.

OPR: MTS/TMS.

Remarks: <https://367trss.hill.af.mil/Courses/Airframe?weaID=ICBM> (Course Code G3ADU00TCB001).

**A2.15. Weapon Safety Training (Explosive Safety and Missile Safety).** Applies to: All personnel, supervisory and non-supervisory positions who operate, handle, transport, maintain, load, or dispose of missiles, explosives, or nuclear weapon systems. This includes all personnel performing or supervising maintenance in an explosive area or an LF.

Frequency: Initial training required prior to performing any of these tasks, and no later than the last day of the 15th month following initial training (Every 15 months).

OPR: Base Weapons Safety Office.

Remarks: Ensure compliance with requirements per AFI 91-101, *Air Force Nuclear Weapons Surety Program*, AFI 91-202, *The US Air Force Mishap Prevention Program*, and AFMAN 91-201, *Explosives Safety Standards*. Missile Safety Training is at <https://367trss.hill.af.mil/Courses/Airframe?weaID=ICBM> (Course Code G3MDUW0TCB0001).

**A2.16. Air Force Emergency Response Operations First and Emergency Responders Course.** Applies to: All 2M0X2 personnel (Team chiefs, technicians, trainers/instructors, and evaluators) requiring entry into a contaminated atmosphere (actual or suspected) containing Minuteman III components.

Frequency: Completion of this course in accordance with AFI 10-2501, *Air Force Emergency Management Program*. FTD training (MMT trainer at 576 FLTS) will provide hands-on initial and annual training to Level A qualified individuals, which will, at a minimum, include PSRE specific response actions and equipment.

OPR: MTS/TMS.

Remarks: Ensure compliance with directives prescribed in OSHA 29, Code of Federal Regulations 1910.120.

**A2.17. Emergency Response Equipment Repair Training.** Applies to: Personnel required to perform periodic maintenance of emergency response life support equipment.

Frequency: Initial/3-year recurring training; Training through applicable manufacturer.

OPR: MTS/TMS.

Remarks: Training schedules are available through applicable manufacturer.

**A2.18. IMDS Familiarization.** Applies to: Team chiefs, designated data collection monitors, maintenance production work supervisors and all personnel who use IMDS terminals.

Frequency: One time per duty position.

OPR: AFGSC.

Remarks: Include use of IMDS terminals and printers, use of IMDS screen displays and menus, and local procedures.

**A2.19. (N/A 576 FLTS) Escort Training.** Applies to all personnel who perform escort duties on an LF or MAF.

Frequency: Annual.

OPR: MTS.

Remarks: This training will focus on LF operations to include applicable directives from DoD S-5210.41-M, *Nuclear Weapon Security Manual*.

**A2.20. Nuclear Surety Training.** Applies to: All personnel, supervisory and non-supervisory positions who operate, handle, transport, maintain, load or dispose of nuclear weapons, nuclear weapon systems, missiles, certified critical components, perform nuclear-related duties or control entry into No-Lone zones.

Frequency: Initial training required prior to performing any of these tasks, and no later than the last day of the 15th month following initial training (Every 15 months).

OPR: Base Weapons Safety Office.

Remarks: Ensure compliance with requirements set forth in AFI 91-101.

**A2.21. Codes Familiarization Training.** Applies to: MMOC, P&S, QA, section NCOICs, Technical Engineering, and all non-code handlers who supervise code handlers at the section or flight level.

Frequency: Annual.

Remarks: Initial and annual codes familiarization training self-study packages are developed by Codes Section to inform personnel of code controls and procedures applicable to their areas of responsibility. Testing is not required. Initial and annual self-study packages or other media format (slide show) will be distributed to the applicable NCOIC to distribute to required personnel in their area of responsibility and to verify completion of the self-study package.

OPR: Wing Codes.

Remarks: Ensure compliance with requirements set forth in AFGSCI 13-5301, Volume 5, *Wing Code Controller and Handler Standardization, Evaluation and Training*.

**A2.22. (N/A 576 FLTS) Fast Rising B-Plug (FRBP) Hazard Awareness Training.** Applies to: All personnel who dispatch to operational launch facilities.

Frequency: One time.

OPR: AFGSC/A4.

Remarks: <https://367trss.hill.af.mil/Courses/Airframe?weaID=ICBM> (Course Code G3MKUW0T0001).

**A2.23. Data Integrity Team Training.** This is to train all DIT monitors, work center supervisors, and NCOICs/OICs, on work order review tactics, techniques, and procedures to execute the DIT functions and required supervisory review functions.

Frequency: One Time

OPR: MMA

**A2.24. Lead Vehicle Training.** This training is for all Officers or NCOs who perform Large Maintenance Vehicle operations.

Frequency: One Time.

OPR: MTS/TMS.

Remarks: Train responsibilities in accordance with AFGSCI 21-106, *Large Maintenance Vehicle Operations*.

**A2.25. Self-Aid Buddy Care. (ADLS).** Applies to all personnel who require Self-Aid Buddy Care in accordance with A2.25.

Frequency: Every three years.

OPR: MTS/TMS.

**A2.26. Self-Aid Buddy Care. (Hands on)** Applies to all technicians, team chiefs, instructors/trainers, QA evaluators, task supervisors, and NCOIC/OIC for dispatching and non-dispatching work centers who perform maintenance or individuals who directly supervise maintenance.

Frequency: Every three years.

OPR: Designated trainers.

OCR: MTS/TMS.