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SECRETARY OF THE AIR FORCE**

AIR FORCE INSTRUCTION 21-203

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Maintenance

NUCLEAR ACCOUNTABILITY



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This publication implements Air Force Policy Directive (AFPD) 21-2, *Munitions* and is consistent with AFPD 13-5, *Air Force Nuclear Enterprise Policy Directive*. It provides guidance and procedures for the accountability, custody and logistics movement of nuclear weapons, nuclear components and nuclear-related support equipment (SE). It applies to all personnel who maintain, handle and account for nuclear weapons, nuclear components and nuclear-related SE. This publication applies to Air National Guard and Air Force Reserve units and personnel. Units cannot publish a supplement to this publication. Units contact the MAJCOM for interpretations of the guidance contained in this AFI. Route MAJCOM directed supplements to OPR of this publication for coordination prior to certification and approval. Ensure records created because of processes prescribed in this publication are maintained IAW Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of IAW the Air Force Records Disposition Schedule (RDS) in the Air Force Records Information Management System (AFRIMS). MAJCOMs have 90 calendar days from the effective date of this publication to rewrite or certify as current supplements to this publication. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (**T-0, T-1, T-2 or T-3**) number following the compliance statement. Subordinate paragraphs carry the parent tiering unless otherwise specified. See AFI 33-360, *Publications and Forms Management*, **Table 1.1** 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 Publication Office of Primary Responsibility (OPR) for non-tiered compliance items. Submit changes to this publication using the AF Form 847, *Recommendation for Change of Publication* through the chain of command to AF/A4LW, 1030 Air Force Pentagon, Washington DC 20330-1030.

SUMMARY OF CHANGES

This rewrite of AFI 21-203 is in response to unit feedback, reorganizations, and SAF/AA Compliance Statement Review effort. Additionally, this revision changed and clarified some tiered waiver authorities, implements Headquarters United States Air Force Program Action Directive 14-06 (dated 15 March 2015), realigns NCP duties, makes minor changes to the nuclear weapons custody transfer procedures and updates accountable procedures throughout the AFI.

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Chapter 1

GENERAL

1.1. Purpose. This Instruction provides guidance, delineates responsibilities and establishes procedures for accountability, custody and logistics movement of nuclear weapons, nuclear components and nuclear-related support equipment (SE).

1.2. General. Nuclear weapons require special consideration because of their political and military importance, destructive power, cost and potential consequences of an accident or unauthorized act. Conserving nuclear weapons as national resources and ensuring the safety of the public, operating personnel, and property are most important during maintenance, storage, handling and logistics movement, and operational employment of nuclear weapons.

Chapter 2

ROLES AND RESPONSIBILITIES

2.1. Major Commands.

2.1.1. General.

2.1.1.1. Oversee nuclear weapon and nuclear component accountability at assigned units. Coordinate technical support and provide guidance on accountability issues beyond unit capability.

2.1.1.2. Assist units with maintenance items ordered through Nuclear Accountability and Reporting Section, and not received by the 120-day point or sooner if requested. Assist units with maintenance items ordered through Nuclear Accountability and Reporting Section, and not received by the 120-day point or sooner if requested.

2.1.1.3. Execute actions required to participate in and support Stockpile Emergency Verification (SEV) plans.

2.1.1.3.1. Establish 24hr POC (such as Command Post) for Secure Internet Protocol Router (SIPR) message traffic.

2.1.1.3.2. Ensure units have SIPR capability to send/receive stockpile messages and to ensure SEV notifications reach the Service Logistics Agent (SLA) in a timely manner.

2.1.2. Air Force Global Strike Command (AFGSC). AFGSC/A4 is the office of primary responsibility for AFGSC nuclear support guidance.

2.1.3. Air Force Global Strike Command - Nuclear Control Point (AFGSC NCP). In addition to the responsibilities identified in AFI 21-2XX Series, NCP serves as primary point of contact on accountability of nuclear weapons, nuclear components and nuclear-related support equipment (SE). NCP oversees Nuclear Ordnance Controlled Materiel (NOCM) and nuclear weapons stockpile planning and management. NCP is the SLA for all nuclear weapons assigned to the AF and coordinates movement requirements with National Nuclear Security Administration (NNSA), Defense Threat Reduction Agency (DTRA), MAJCOMs and units.

2.1.4. NCP will:

2.1.4.1. Oversee nuclear weapon, nuclear component, and DOE designed nuclear-related (SE) accountability. Coordinate support and provide guidance on accountability issues beyond unit capability.

2.1.4.2. Serve as the AF focal point for Defense Integration and Management of Nuclear Data Services (DIAMONDS) integration and management. Coordinate and represent the AF at all applicable DIAMONDS conferences and training. Recommendations and new requirements changing DIAMONDS or DATS affecting AF policy requires approval from AF/A4LW.

2.1.4.3. Establish authorized levels of Base Spares via approval of Unit Spares Authorization Listing (USAL).

- 2.1.4.4. Coordinate discrepancies between validated USAL and Base and Military Spares Server (BMSS) website.
- 2.1.4.5. Monitor Nuclear Weapons Reporting (NUREP) input to DoD nuclear weapon stockpile database systems to ensure compliance with Chairman Joint Chiefs of Staff Instruction (CJCSI) policy.
- 2.1.4.6. Develop the AF Nuclear Ordnance Shipping Schedule (NOSS).
- 2.1.4.7. Collect, consolidate, and de-conflict wing Prime Nuclear Airlift Force (PNAF), NNSA/OST, and DOE Air non-support inputs and provide to 618 AOC/XOOON, 4AS/DOOMS, NNSA's Office of Secure Transportation (OST), and applicable organizations monthly.
- 2.1.4.8. Consolidate, coordinate and de-conflict NOSS and DOE airlift requirements and Safeguards Transporter (SGT) with DTRA, NNSA's OST, DOE, and disseminates to units.
- 2.1.4.9. Consolidate nuclear-related items on Special Assignment Airlift Mission (SAAM) and SGT shipments when practical.
- 2.1.4.10. Coordinate the movement of non-nuclear major assemblies of nuclear weapons to and from locations.
- 2.1.4.11. Request Materiel Transfer Orders (MTO) from DTRA to release or transfer nuclear cargo as required.
- 2.1.4.12. Provide fund-cites for surface transportation of unclassified denuclearized special test items and related test equipment as required.
- 2.1.4.13. Develop Second Destination Transportation (SDT) requirements and submit to HQ AFMC/LSO/LOTB.
- 2.1.4.14. Serve as Air Force focal point for logistics materiel support IAW TO 11N-100-1, *Supply Management of Nuclear Weapons Materiel*, for Joint Service or Unified Command organizations (e.g., US Strategic Command [USSTRATCOM]), European Command (EUCOM), and Explosive Ordnance Disposal (EOD) School) for authorization, requisition and distribution of DOE designed military spares, support and handling equipment supporting Air Force nuclear mission. Monitor all unit back orders from the National Security Campus (NSC), and be the focal point between the units and NSC regarding any Base Spare/Military Spare (BS/MS) items.
- 2.1.4.15. Budget for the movement of trainers and SE to/from NSC for repair/refurbishment.
- 2.1.4.16. Execute actions required to participate in and support SEV plans and establish 24-hr point of contact (POC) (such as Command Post) for SIPR communications.
- 2.1.4.17. Develop and maintain DIAMONDS procedures for the following: problem reporting, troubleshooting, communication errors reporting, security reporting, and new requirement development. NCP will ensure security incidents are reported to DIAMONDS Support Center (DSC) personnel and are properly investigated in accordance with AF guidance and notify DSC when closed.

2.1.4.18. Evaluate and assign priority level to AF DIAMONDS Problem Reports (PR) and Change Requests (CR) submitted by AF users. NCP will suggest, track, and evaluate all software and hardware requests for AF DIAMONDS.

2.1.4.19. Coordinate on DIAMONDS training provided by DTRA for AF users. Forward consolidated attendance list to DTRA for DTRA hosted training events. Verify all attendees submit security clearance information.

2.1.4.20. Provide AMC/A3N with a cargo requirements memorandum annually. NCP will ensure the memorandum details specific cargo requiring airlift to assist the flying unit with scheduling their training and resources.

2.1.4.21. Provide a single point of contact to the DOE/NNSA NSE agencies and other non-Air Force nuclear weapons support agencies requesting access to Air Force nuclear weapons locations. The NCP assures a valid purpose for each visit or access request and ensures appropriate involvement and standardization throughout the request process.

2.1.4.21.1. Coordinate/approve/disapprove all visit requests and establish guidance and procedures concerning security clearance verification and coordination of visits according to Air Force security directives and instructions.

2.1.5. Air Mobility Command (AMC).

2.1.5.1. Plan and execute SAAM requirements generated by the NCP. Provide a six-month projection to factor overflight dates and support NOSS development. Provide date changes, if warranted.

2.1.5.2. If mission considerations such as over flight restrictions or airfield operating hours conflict with delivery parameters of the SAAM request, coordinate a revised request with the NCP. Additionally, coordinate all short notice SAAM requests and changes with the NCP.

2.1.5.3. Provide properly trained and certified personnel to courier, load, and unload nuclear cargo during the airlift phase of a logistics movement. Ensure these operations preserve the chain of custody.

2.1.5.4. Ensure security of onboard nuclear cargo until released by aircraft commander to the unit receiving custody of the resources.

2.1.6. United States Air Forces in Europe (USAFE). USAFE A3/10 is the office of primary responsibility for USAFE nuclear support guidance.

2.1.7. Air Education and Training Command (AETC). AETC/A10 is the office of primary responsibility for AETC nuclear support guidance.

2.2. Unit Responsibilities.

2.2.1. Wing Commanders. In addition to the responsibilities in AFIs 21-101 and applicable 21-2XX series, wing commanders will:

2.2.1.1. Provide storage, security, control, Safe Haven, emergency divert, and custodial responsibility for all nuclear weapons, nuclear components, or Limited Life Components (LLC).

2.2.1.2. Ensure all individuals and organizations, which physically control, possess, store and maintain nuclear weapons account for and report status of these resources while in their custody IAW higher headquarters policy and technical orders and this Instruction. **(T-0)**.

2.2.1.3. Designate units whose commanders may appoint individuals authorized to receive custody of nuclear weapons (see sample letter in **Figure 8.1**) IAW **Chapter 8** of this Instruction.

2.2.1.4. Ensure base has a 24hr POC (such as command post or Maintenance Operations Center) with SIPR capability to send/receive SFRD messages. This capability ensures SEV notifications, logistical movement notifications and PNAF divert notifications for nuclear weapons, nuclear components and LLCs are passed to the Maintenance Accountable Systems Officer (MASO) in a timely manner.

2.2.1.5. Appoint and certifies the MASO in writing. **(T-1)**. The wing commander (or equivalent) having custodial responsibility for assigned nuclear weapons, nuclear components, limited life components, or Other Major Assemblies (OMA) is the appointing official. Producing a new appointment memorandum is not required when the MASO appointing authority changes. The wing commander will:

2.2.1.5.1. Brief the newly appointed MASO on his/her responsibilities. **(T-1)**.

2.2.1.5.2. Certify the MASO by approving the Certificate of Transfer of Accountability between the gaining and losing MASO. **(T-1)**.

2.2.1.6. Appoint a new MASO before the current MASO is expected to be absent for more than 45 consecutive days. **(T-1)**.

2.2.1.7. Appoint a minimum number of NCOs or above to sign accountable documents on behalf of the MASO, in his/her absence (e.g., off-shift or TDY) IAW 11N-100-4, "*Custody, Accountability, and Control of Nuclear Weapons and Nuclear Materiel*". **(T-1)**.

2.2.1.8. Appoint a minimum number of personnel, MSgt or above, to sign the AF Form 504. **(T-1)**.

2.2.1.9. Appoint only personnel certified IAW AFI 13-501, *Nuclear Weapons Personnel Reliability Program (PRP)* to receipt for war reserve nuclear weapons shipped via NNSA/OST or AMC SAAM missions (See **Figure 2.1**). **(T-1)**. The letter shall contain each individual's name, rank, security clearance, job title and duty telephone numbers. **(T-1)**.

2.2.1.9.1. Appoint personnel to receipt for non-war reserve weapons, classified DOE end items, components and documents involving restricted data shipped via NNSA/OST or AMC SAAM missions (See **Figure 2.1**). **(T-1)**. Non-PRP individuals may be appointed. The letter shall contain each individual's name, rank, security clearance, job title and duty telephone numbers. **(T-1)**.

2.2.1.9.2. Update and distribute the letter annually no less than 30 days before expiration of current letter or as additions occur—whichever is sooner. Certifying military member for the specific period (if known) of their military assignment to the organization. To avoid re-accomplishing the entire letter, the MASO may delete an

individual or update their grade, by lining through the deleted/modified information, pen and ink new information, then initial and date the change(s). Distribute per 11N-45-51 with the date of the modification being the new effective date, however the letter will be updated annual.

2.2.1.9.3. A message may be used in lieu of a letter during contingencies, or if short notice changes are mandatory to avoid cancellation of a scheduled shipment. If a message is used, provide the name and title of the certifying official. Distribute the authorization letter IAW 11N-45-51.

2.2.1.10. Appoint the Semiannual Inventory Report (SIR) verifying/audit officer IAW TO 11N-100-3150 to verify inventory accuracy and conduct audits performed in conjunction with semi-annual inventories. The Wing Commander must appoint the individual on special orders. **(T-0)**.

2.2.1.11. Approve and release consolidated PNAF, NNSA/OST, and/or, DOE Air non-support messages (sample letter in **Figure 2.4**) originated by wing XP. **(T-1)**. Send non-support messages to the applicable MAJCOM and the NCP by the fifth of each month covering the next 180 days identifying dates the wing cannot support Type I/II shipments due to safety or security conditions. OCONUS units must coordinate with the Host Nation. **(T-0)**. This applies to USAFE main operating bases listed in the Special Weapons Overflight Guide as a Northern and Southern European Emergency Divert Location. Wings are required to submit negative replies. **(T-1)**. The wing commander will continually monitor status of the wing's capability to support scheduled and projected movements, and submit non-support messages and updates as changes occur. **(T-1)**.

2.2.1.11.1. Ensure non-support messages include, at a minimum, input from Security Forces, Airfield Operations, Munitions, host nation (if applicable), and host wing (if applicable). **(T-1)**.

2.2.1.11.2. Wing Commanders will submit non-support dates, monthly, in two categories:

2.2.1.11.2.1. Category 1 Non-Support: Due to physical or security limitations, the base cannot support the movement. Examples include runway closure, host nation holidays/non-working days, scheduled protests, air shows and major inspections/exercises (e.g. STRATCOM, HQ IG).

2.2.1.11.2.2. Category 2 Non-Support: Due to previously planned events, the base support would be impacted. Transporters, in coordination with the wing, will consider impacts and adjust schedules if feasible; however, essential movements will still take precedence. Examples include, but are not limited to, inspections/exercises (e.g. local and HHQ exercises, assistance visits), and DV visits.

2.2.2. Unit Commanders (Squadron or Group). In addition to the responsibilities in AFIs 21-101 and applicable 21-2XX series, unit commanders will:

2.2.2.1. Designate individuals IAW **paragraph 8.1.2.** of this Instruction to receive custody of nuclear weapons and provide copies of appointment documents to the MASO. **(T-1).**

2.2.2.2. Designate individuals authorized to order Base and Military Spares and DOE-designed Special Equipment end items IAW TO 11N-100-1 (See TO 11N-100-1 for procedures and sample letter). **(T-0).**

2.2.3. Munitions (MUNS), Munitions Support Squadron (MUNSS), or Maintenance Squadron (MXS) Commanders. In addition to the responsibilities in AFIs 21-101, 21-200 and applicable 21-2XX series, commanders will:

2.2.3.1. Recommend, for appointment, a MASO who meets the requirements in **paragraph 4.3.** to the wing commander. **(T-1).** Develop appropriate officers to replace current MASOs before planned changeover. Commanders will develop a proposed MASO changeover plan in advance of the next projected turnover. **(T-3).**

2.2.3.2. Ensure SIPR capability to send/receive SFRD messages is available to Munitions Control, Nuclear Accountability Reporting Section (NARS) and weapons maintenance sections. **(T-2).**

2.2.3.3. Designate a primary and at least one alternate custodian authorized to request, receive and turn in NOCM items (see **Figure 2.3** for sample letter). **(T-1).** Commanders will prepare a separate letter for each work center. Deletions can be made by anyone by entering a single line through the entry and initialing the deletion. Additions require a new letter. When changes are made, line through the current date in the upper right corner and write in new effective date.

2.2.3.4. Account for assigned TYPE trainers in Combat Ammunition System (CAS) IAW AFI 20-110, *Nuclear Weapons Related Materiel (NWRM) Management* and AFI 21-201, *Conventional Munitions Maintenance Management.* **(T-1).**

2.2.4. Munitions Accountable Systems Officer (MASO). The MASO is the appointed weapons custodian and accountable officer responsible for all aspects of the daily accountability and custody of the unit's nuclear weapons, components and spares (base and military). In addition to the responsibilities identified in TOs 11N-100-1, 11N-100-2, 11N-100-4, 11N-3150-8-1 and AFI 21-2XX series instructions, MASO will:

2.2.4.1. Submit reports outlined in TO 11N-100-3150 for reportable items. **(T-0).**

2.2.4.2. Ensure NARS personnel are trained on all facets of weapons accountability. **(T-3).**

2.2.4.3. Develop a storage plan for the NARS warehouse IAW **Chapter 6.** **(T-1).**

2.2.4.4. Develop and publish procedures, at an appropriate level within the wing, covering local conditions and requirements, to ensure all affected personnel are aware of required responsibilities and procedures. **(T-1)**. As a minimum, the MASO will establish local procedures for the following:

- 2.2.4.4.1. SEV notification, execution and reporting procedures. **(T-1)**. Develop and/or review a checklist for Munitions Control and affected agencies (Command Post, etc.) that include MASO and key personnel in recall or standby procedures. **(T-1)**. The MASO will ensure procedures cover conditions, responsibilities and procedures to be followed during an actual SEV or a SEV test. **(T-1)**.
- 2.2.4.4.2. Procedures to account for and ensure security of all classified removable DIAMONDS electronic media as required in TO 11N-3150-8-1. **(T-0)**.
- 2.2.4.4.3. NUREP reporting, to include nuclear weapons configuration record distribution procedures. **(T-0)**.
- 2.2.4.4.4. If seal program is utilized, develop local guidance to aid in managing and maintaining integrity of the program to include requisition, receipt, destruction, and control of seals IAW [paragraph 5.2](#). **(T-3)**.
- 2.2.4.5. Ensure NARS provides physical (in the office) 24-hour coverage upon initiation of a SEV or SEV test. NARS will ensure this coverage is maintained until released by the AF SLA. **(T-1)**.
- 2.2.4.6. Control the transfer and movement of, and access to nuclear weapons using guidance in [Chapter 8](#) of this Instruction. **(T-1)**.
- 2.2.4.7. Ensure assets have appropriate charge code changes and are available for shipment as directed in Stockpile Laboratory Test/Stockpile Flight Test (SLT/SFT) Warning Orders or AF NOSS. **(T-0)**.
- 2.2.4.8. Coordinate local review of USAL and other stock levels with the applicable maintenance work center requiring Base Spares (BS) or Military Spares (MS). **(T-3)**.
- 2.2.4.9. Reconcile the Site LIL (SLIL) (located within Accountability module – General Reports tab in site database) IAW [Chapter 9](#). **(T-2)**.
- 2.2.4.10. Distribute letters of authorization to applicable organizations to implement the custody transfer procedures outlined in [Chapter 8](#). **(T-2)**.
- 2.2.4.11. Establish classified, unclassified, and DIAMONDS organizational e-mail addresses. **(T-2)**.
- 2.2.4.12. Inventory all property on accountable records. **(T-0)**.
- 2.2.4.13. Ensure adequate safeguards and protection are provided for property on MASO's accountable record. **(T-0)**.
- 2.2.4.14. Properly identify, request disposition (if required), and dispose of unserviceable, repairable, or excess property on account. **(T-3)**.
- 2.2.4.15. Personally conduct checks to determine accuracy of accountable records and validity of warehouse locations and balances. **(T-2)**.

- 2.2.4.16. Provide management guidance and training to users and account custodians. **(T-3)**.
- 2.2.4.17. Accurately record transactions, maintain current records pertaining to the account, and reconcile inventories with accountable records. **(T-0)**.
- 2.2.4.18. Designate, in writing, the below responsibilities. **(T-3)**. This designation may be accomplished on a single letter and include any additional local appointments as desired (see **Figure 2.2**). Deletions may be made by entering a single line through the entry and the MASO initials the deletion. The MASO must accomplish a new letter for any additions. **(T-3)**.
- 2.2.4.18.1. Air Force Specialty Code (AFSC) 2W2X1 personnel will perform NARS duties. **(T-1)**. The primary and at least one alternate NARS monitor will be trained and fully qualified to perform NARS duties. **(T-1)**.
 - 2.2.4.18.2. Primary and Alternate Reparable Item monitors.
 - 2.2.4.18.3. Individuals authorized access to the NARS warehouse.
 - 2.2.4.18.4. The MASO will ensure that letters are distributed for individuals to receive classified items from the Logistics Readiness Squadron (LRS). **(T-3)**.
 - 2.2.4.18.5. Individuals authorized to perform quality control (QC) checks and review accountable documents. These individuals may do so only when the MASO is not available (i.e., leave, TDY).
 - 2.2.4.18.6. Ensure authorization letter for receipt of DOE materiel is current IAW **Figure 2.1** **(T-1)**.
 - 2.2.4.18.7. Authorize personnel access and use of keys to nuclear facilities (e.g., maintenance facilities, storage igloos) by signing the AAAL and change letters IAW AFI 21-200.
 - 2.2.4.18.8. Distribute letters of authorization to applicable organizations to implement the custody transfer procedures outlined in **Chapter 8**. **(T-2)**.
 - 2.2.4.18.9. Individuals authorized to verify seal numbers and container contents to preclude opening containers during inventories and maintain the list of applied seals on behalf of the MASO.
- 2.2.4.19. Conduct and document training for the appointed verifying/audit officer having SIR duties. **(T-1)**. The MASO will ensure training includes seal installation and inspection processes if required. **(T-1)**.
- 2.2.4.20. Ensure all DIAMONDS generated reports (e.g., NUREPs) for nuclear weapons accounts are reviewed for accuracy prior to transmission. **(T-0)**.
- 2.2.4.21. Manage the DIAMONDS accounts according to established procedures in this AFI. **(T-1)**.
- 2.2.4.22. Develop a training program to cover all aspects of NARS operations. **(T-1)**.
- 2.2.4.23. Update Defense Integration and Management of Nuclear Data Services (DIAMONDS) Storage Location Planning Report at the end of every duty day on which

changes occur. Provide an updated copy to Munitions Control unless a DIAMONDS terminal is located in the control center.

2.2.4.24. Initiate an AF Form 504, *Weapons Custody Transfer Document*, to document initial and subsequent custody transfers as outlined in **Chapter 7**.

2.2.5. Section/Element Supervisor. In addition to the applicable responsibilities in AFIs 21-101 and applicable 21-2XX series, section/element supervisor will:

2.2.5.1. Ensure Maintenance Activity Reports (MAR) are submitted as required. **(T-2)**.

2.2.6. Repairable Item Custodians will:

2.2.6.1. Account for and maintain control of repairable items issued to the custody sub-accounts. **(T-1)**.

2.2.6.2. Accurately record property transactions and maintain current custody records pertaining to the account in the applicable Accountable Property System of Record. **(T-1)**.

2.2.6.3. Promptly report any losses, damage, destruction or other irregularities to the appointing commander and the MASO. **(T-1)**.

2.2.6.4. Verify the accuracy of custodial records with records maintained by the MASO at least semiannually. **(T-1)**.

2.2.6.5. Sign appropriate issue/turn-in documents for all custody items. **(T-1)**.

Figure 2.1. Sample Letter Certification of Personnel to Receipt for Classified Property.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 42D BOMB WING (AFGSC)
LORING AIR FORCE BASE, MAINE

27 Oct 15

MEMORANDUM FOR US DEPARTMENT OF ENERGY

(Sample addresses)

Albuquerque Operations Office 618 AOC/XOOOO

Attn: Office of Secure Transport 402 Scott Drive, Unit 2K1

PO Box 5400 Scott AFB IL 62225-5303

Albuquerque NM 87115-5000

FROM: 42 BW/CC

Texas Road

Loring AFB ME 04751-5000

SUBJECT: Certification of Personnel to Receipt for Classified Property

1. The following personnel are authorized to receive and sign for classified property, including US Department of Energy and Air Mobility Command classified shipments and documents involving restricted data. Access of listed personnel is required for performance of duties and granting access will not endanger the common defense and security. This certification is made in the name of the Commander, Air Force Global Strike Command, as authorized by AFI 21-203. Certification is effective this date and expires 1-year from date of letter.

NAME and RANK: Ross Agee, Capt POSITION TITLE: Accountable Officer

SECURITY CLEARANCE: Top Secret DUTY PHONE: DSN 555-1212

NAME and GRADE: Joy A. Hice, MSgt POSITION TITLE: NCOIC, NARS

SECURITY CLEARANCE: Top Secret DUTY PHONE: DSN 555-1212

Address Information:

Mail - 42 MUNS/MXW Shipment - FV 1234, 42 MUNS

Loring AFB, ME 04751 Loring AFB, ME 04751

2. This letter supersedes previous letter dated 01 Dec 10.

JACK D. RIPPER, Colonel, USAF
Commander, 42d Bomb Wing

cc: NCP

(Parent MAJCOM) / (Office Symbol)

(Recipient list in 11N-45-51B)

Figure 2.2. Sample Letter - Designation of Individuals Authorized to Perform NARS Duties.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 42D BOMB WING (AFGSC)
LORING AIR FORCE BASE, MAINE

27 Oct 15

MEMORANDUM FOR
FROM: 42 MUNS/MXWK (MASO)
Texas Road
Loring AFB ME 04751-5000

SUBJECT: Designation of Individuals Authorized to Perform NARS Duties

1. The personnel listed in paragraph 2 are authorized to perform the following NARS duties. These designations are made IAW AFI 21-203.
 - a. Primary (P) and Alternate (A) NARS monitors.
 - b. Individuals authorized access to Document Control files.
 - c. Primary (P) and Alternate (A) Reparable Item monitors.
 - d. Individuals authorized to verify seal numbers and container contents to preclude opening containers during inventories and maintain the list of applied seals on behalf of the MASO.
 - e. Individuals authorized access to the NARS Warehouse(s).
2. List of Individuals and Authorizations:

RANKNAMEAUTHORIZATIONS (By Paragraph Above)

- a. TSgt Shires, Kenneth W. 1b, 1e, 1f
 - b. SSgt Huber, Jeffrey P. 1a(P), 1b, 1c (P), 1d(A), 1e, 1f
 - c. SrASawyer, Martin E. 1a(A), 1b, 1c(A), 1f
 - d. SrATobin, Britt R. 1b, 1d(P), 1f
3. This letter supersedes previous letter dated 01 Dec 10.

DAVID W. LUECK, GS-12, DAF
Munitions Accountable Systems Officer

Figure 2.3. Sample Letter: Designation of Individuals Authorized to Request, Receive and Turn-In NOCM Items.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 42D BOMB WING (AFGSC)
LORING AIR FORCE BASE, MAINE

27 Oct 15

MEMORANDUM FOR 42 MUNS/MXWK (MASO)

FROM: 42 MUNS/CC

Texas Road

Loring AFB ME 04751-5000

SUBJECT: Designation of Individuals Authorized to Request, Receive and Turn-In NOCM Items

1. The personnel, listed in paragraph 2, are authorized to request, receive and turn in NOCM items for the Re-entry Vehicle Maintenance Section (Office Symbol MXWIR). I certify that individuals listed in this letter require access to NOCM items in order to perform authorized maintenance activities. Individuals, as designated below, are appointed primary (P) and alternate (A) reparable item custodians for this section. These designations are made IAW AFI 21-203.

2. List of Individuals Authorized to Request and Receive NOCM Items and Designation of Reparable Item Custodians:

RANK NAME PHONE/CUSTODIAN DESIGNATION

- a. MSgt Konigsbuaer, Jeffrey 5-3876
 - b. TSgt Witchendahl, Dale 5-8765
 - c. SSgt Walker, Almond R. 5-8765 (P)
 - d. SSgt Gauthier, Robert W. 5-8765
 - e. SrA Petrovich, Steven D. 5-8765 (A)
3. This letter supersedes previous letter dated 01 Dec 10.

KENNETH L. BOTTARI, Lt Col, USAF
Commander, 42d Munitions Squadron

Figure 2.4. Sample Letter – Non-Support Message.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 42D BOMB WING (AFGSC)
LORING AIR FORCE BASE, MAINE

27 Oct 15

MEMORANDUM FOR AFGSC/A4W

FROM: 42 BW/CC

Texas Road

Loring AFB ME 04751-5000

SUBJECT: Non-Support; PNAF, NNSA/OST and DOE Air

1. The events listed in paragraph 2 require direct support of our unit and/or identified support units/agencies. Specified movements cannot be supported during the dates of the below listed events.

2. List of events precluding support of specified movements:

a. SAAM Non-Support

Justification – (see [paragraphs 2.2.1.11.2.1.](#) and [2.2.1.11.2.2.](#) for example Cat 1/Cat 2 reasons)

Non-support dates – 12 Oct 2012

b. OST Ground Non-Support

Justification – (see [paragraphs 2.2.1.11.2.1.](#) and [2.2.1.11.2.2.](#) for example Cat 1/Cat 2 reasons)

Non-support dates – 12 Oct 2012

c. DOE Air Non-Support

Justification – (see [paragraphs 2.2.1.11.2.1.](#) and [2.2.1.11.2.2.](#) for example Cat 1/Cat 2 reasons)

Non-support dates – 12 Oct 2012

3. The POC for this information is 1st Lt Jay Moret, MASO, DSN 555-1212.

BUCK J. TURGIDSON, Colonel, USAF
Commander, 42d Bomb Wing

Chapter 3

LOGISTICS MOVEMENTS

3.1. General. This section outlines procedures and responsibilities for peacetime and emergency logistics movement of nuclear cargo and implements Air Force Policy Directive (AFPD) 21-2, Munitions and is consistent with DoDI 4540.05, *DoD Transportation of US Nuclear Weapons*, TO 11N-45-51, *Transportation of Nuclear Materiel*, and AFI 13-526v1, *Prime Nuclear Airlift Force Operations*.

3.1.1. If safer or more practical than using US military aircraft, the DoD Component, Unified or Specified Commander may direct the off-base logistics movement of nuclear weapons by vehicle transport provided the weapons are in US military custody at all times during transport. **(T-0)**. This direction must be in writing by the Commander and is non-delegable. **(T-0)**.

3.1.2. Unclassified items do not require special airlift and need not be included in the NOSS. However, commanders will ensure personnel do not separate mixed loads of classified and unclassified special test items and test equipment. **(T-1)**. Commanders must ensure mixed loads are moved using a security level and procedures commensurate with requirements of the classified cargo. **(T-1)**.

3.2. Specific Responsibilities for Transporting, Shipping, and Receiving Nuclear Cargo.

3.2.1. NCP Responsibilities.

3.2.1.1. NCP, for SAAM support, will:

3.2.1.1.1. Consolidate nuclear-related items on SAAMs when possible. Coordinate opportune cargo request with 618th Air Operations Center, Current Operations Directorate (618 AOC/XOOON), Scott AFB, IL, as required.

3.2.1.1.2. Send SAAM requests as soon as possible to provide 618 AOC/XOOON maximum advantage when planning missions. SAAM requests should be submitted NLT 90 days prior to the required delivery date. The NCP division will identify airlift requirements, including tentative on-load and off-load locations, availability dates, and required delivery dates. Keep changes to SAAMs to a minimum; however, submit significant changes as they occur. Changes should be mission-essential with appropriate justification from the using command agency.

3.2.1.1.3. When required, request a MTO from DTRA to release or transfer nuclear cargo.

3.2.1.1.4. Include hazardous cargo information in the SAAM request for nuclear-related cargo not listed in TO 11N-45-51A, *Transportation of Nuclear Weapons Materiel (Supplement) Shipping and Identification Data for Stockpile Major Assemblies*. Also, the NCP will include applicability of the two-person concept, AFI 16-610, *Special Weapons Overflight Governance*, and the appropriate security provisions of DoD S-5210.41M, AFMAN 31-108, *Nuclear Weapon Security Manual: The DoD Nuclear Weapon Security Program and theater directives*.

- 3.2.1.1.5. Ensure the following logistics movement information is provided by AMC (and DOE for DOE movements) to enroute units and final destinations; the estimated time of arrival, departure, nature of cargo, firefighting, and handling and (SE) requirements.
- 3.2.1.2. NCP, for DOE Contracted Aviation Mission Support, will:
 - 3.2.1.2.1. Provide Time Change Item Return Schedule (TCIRS)/Time Change Item Schedule (TCIS) (to include weapon type, serial number and expiration date, at least quarterly) message to all units receiving Limited Life Components (LLC) for replacement of expiring components in weapons and warheads.
 - 3.2.1.2.2. Provide Time Change Item Support (deliveries or preparation) message to MFD for support of future OCONUS SAAM shipment(s).
 - 3.2.1.2.3. Ensure the following logistics movement information is provided by DoE to enroute units and final destinations; the estimated time of arrival, departure, nature of cargo, firefighting, and handling and (SE) requirements.
 - 3.2.1.2.4. Ensure the following logistics movement information is provided by DoE to enroute units and final destinations; the estimated time of arrival, departure, nature of cargo, firefighting, and handling and (SE) requirements.
- 3.2.1.3. NCP, for NNSA/OST SGT Mission Support, will:
 - 3.2.1.3.1. Consolidate nuclear-related items on SGT shipments, when possible.
 - 3.2.1.3.2. Request NNSA transportation to support NOSS requirements for SGT movements.
 - 3.2.1.3.3. Provide Consignment Notification Message (with MTO) to support movements to or from DOE to affected units.
- 3.2.1.4. Non-nuclear or non-radiological assemblies/components support:
 - 3.2.1.4.1. Commanders will ensure shipments of non-nuclear or non-radiological assemblies/ components that require Type II security will be accomplished using transportation other than PNAF assets provided proper security is maintained, ANG C-130 aircraft with armed aircrew). These shipments may be requested via TRANSCOM SAAM. Shipments of components not requiring special security may be accomplished through commercial means.
- 3.2.2. MAJCOMs Responsibilities. MAJCOMS will:
 - 3.2.2.1. Promptly review and ensure units can support actions identified in the NOSS, NNSA transportation requests and SAAM set-up messages.
 - 3.2.2.2. Ensure shortfalls or conflicts are reported to NCP as early as possible so corrective actions can be initiated.
- 3.2.3. Supporting Units. Supporting units will:
 - 3.2.3.1. Include units that are responsible for Airfield Management, Safety, Fire Department, OSI, LRS and Security Forces functions. **(T-3)**.

3.2.3.2. Ensure all persons involved with logistics movement know their specific responsibilities, including those relative to the safety and security of the nuclear cargo and what to do in case of an enroute emergency such as accident, incident, or attempted hijacking. **(T-3)**. Drivers and escorts must have all available information on road conditions, weather and emergency procedures. **(T-3)**.

3.2.3.2.1. Coordinate all logistics (e.g. SAAM, SGT, DOE Aviation, etc.) forecasted movements with wing or host nation agencies to ensure senior leadership has visibility and full wing support for the movement. **(T-3)**. This action is necessary to prevent last minute cancellations and avoid conflict with the wing calendar of events.

3.2.3.2.1.1. Munitions Support (MUNSS) units will notify host nation agencies within 1 duty day of notification of forecasted movements and keep agencies informed as movement dates change or become more specific (i.e., notification required for both NOSS and AMC Setup message receipt). **(T-3)**.

3.2.3.2.2. For AMC SAAM missions, the MASO sends a copy of the current Certification of Personnel to Receipt for Classified Property letter in their SAAM acknowledgement messages. **(T-1)**. If changes to the letter are necessary after initial acknowledgment, the MASO will distribute the revised letter through the same channels through the same channels as the acknowledgment message. **(T-1)**. Subsequent minor changes to the setup messages for that mission not affecting the content of the letter will not require resubmission for each acknowledgement. The MASO will include the parent MAJCOM functional office on all setup message acknowledgements.

3.2.3.3. Develop a written plan addressing logistics support according to AFJI 11-204, *Operational Procedures for Aircraft Carrying Hazardous Materials*. **(T-1)**. OCONUS units must develop and coordinate plan IAW host-nation support agreements. **(T-1)**.

3.2.3.4. Organizations requiring logistic movement of TYPE 3A/B/C trainers or Joint Test Assemblies (JTAs) must forward a request through the MAJCOM to the NCP. **(T-1)**. TYPE 3E trainers may be moved in CONUS by any available means.

3.3. Military First Destination (MFD) to/from OCONUS Shipping/Reporting Requirements.

3.3.1. NUREP requirements (shipper/receiver) will vary based on airlift mission set-up message. Specifically, intermediate storage locations and/or final destinations can normally be deduced through careful review of the airlift mission set-up message. In some cases, direct interaction between affected MASOs may be necessary to ensure accurate NUREPs.

3.3.2. The intent of these procedures is to reduce NUREP errors and limit the amount of shipping paperwork for missions that involve intermediate storage locations. Mission planning may require intermediate storage location to receipt items on accountable records while at their location prior to shipping to ultimate consignee. If properly prepared by consignor, shipping documentation from originating location to final destination will remove the need for intermediate storage location to generate new paperwork for the final leg of the mission.

3.3.3. OCONUS Shipments.

3.3.3.1. MFD will prepare shipping document(s) and release cargo for shipment as directed by NCP. Shipments are made directly to final destination (ultimate consignee), unless cargo is receipted by intermediate storage location.

3.3.3.2. MFD will prepare DD Form 1348-1A shipping documents IAW TOs 11N-100-2 or 11N-100-4, as applicable.

3.3.3.2.1. Final Destination Only: Enter final destination in Block 3 of DD Form 1348-1A and leave Block 4 blank.

3.3.3.2.2. Intermediate Storage Location: Enter intermediate storage location in Block 3 and final destination in Block 4 of the DD Form 1348-1A.

3.3.4. OCONUS Returns.

3.3.4.1. Shipments are made directly to MFD or to intermediate storage locations overseas for movement to the MFD.

3.3.4.2. Shipper will prepare DD Form 1348-1A shipping documents IAW TOs 11N-100-2 or 11N-100-4, as applicable.

3.3.4.2.1. Final Destination Only: Enter final destination in Block 3 of DD Form 1348-1A and leave Block 4 blank.

3.3.4.2.2. Intermediate Storage Location: Enter intermediate storage location in Block 3 and final destination in Block 4 of the DD Form 1348-1A.

3.3.5. Issue Release/Receipt Document. Upon receipt of cargo, all locations will sign and return a copy of the DD Form 1348-1A to the previous shipping location. This includes MFDs, intermediate storage locations, and final user locations. Expedite the mailing process to eliminate required follow-up actions.

Chapter 4

GENERAL NUCLEAR WEAPON AND COMPONENT ACCOUNTING PRINCIPLES

4.1. General Principles of Accounting. This chapter describes the basic principles upon which nuclear weapons, nuclear components and NOCM accounting procedures in this Instruction are based.

4.2. Establishing, Changing, and Deleting a Stock Record Account Number (SRAN). Every base account (to include tenant units) is identified by a unique SRAN. To establish, change or delete a SRAN, refer to AFI 24-230, *Maintaining Air Force DoD Activity Address Codes (DoDAAC)*.

4.3. Accounts and Accountable Officers. Appoint a single individual as the MASO for each SRAN, and must meet certain minimum requirements such as grade, AFSC, security clearance, training, experience, PRP certification. If a different individual is appointed for each account (nuclear, conventional, or NWRM), then that individual is responsible for all items accounted for under the SRAN and type of account for which they are the accountable officer; they are not held responsible for items on the other individual's account.

4.3.1. MASO Requirements for Nuclear Accounts. The MASO is a 21M Munitions and Missile Maintenance Officer or a permanent civil servant (GS-11 equivalent or above), physically assigned to the munitions organization. The MASO possesses appropriate security clearance, is PRP certified (Critical) and is a US citizen.

4.3.1.1. In order to have a working knowledge of nuclear weapons accountability procedures, the MASO will, as of the account transfer date: complete the Nuclear Maintenance Officers Course (NMOC), the Nuclear Accountability Course (NAC), become qualified on all 21M3N MASO requirements in the 21MX CFETP and have 6 months of Nuclear Munitions experience. **(T-3)**.

4.3.2. MASO Requirements for Nuclear Accounts without WR Weapons. MASO must be a 21M Munitions and Missile Maintenance Officer, a senior NCO in AFSC 2WXXX, or a permanent civil servant (GS-9 equivalent or above) physically assigned to the munitions organization. **(T-3)**. MASO must possess appropriate security clearance and be a US citizen. **(T-3)**. MASO must complete NMOC (21M and GS only), the NAC, and be qualified on all 21M3N MASO requirements in the 21MX CFETP prior to performing MASO duties. **(T-3)**. This is not applicable to NWRM.

4.4. Control of Accountable Systems. The MASO is responsible for the accuracy of accountable records (manual or automated) generated within his/her area of responsibility; therefore, only authorized individuals maintain and post transactions on behalf of the accountable officer. The accountable officer is also responsible for identifying and initiating corrective action for inaccurate accountable transactions upon discovery.

4.5. Control of Auditable and Accountable Documents.

4.5.1. Auditable documents are identified in [paragraph 5.4.1](#). Accountable documents are identified in [paragraph 5.4.2](#). of this Instruction.

4.5.2. Each accountable document is assigned a distinct number to identify it. Accountable documents are numbered consecutively using document control registers or control logs, in a manner that permits easy identification of lost or missing documents. Auditable documents need not be logged or numbered, but for audit purposes, require to be filed so that they can be easily retrieved and establish an audit trail. The MASO is responsible for ensuring the accuracy of document registers and control logs, and ensuring all documents are maintained on file, as required. **(T-1)**.

4.5.3. Signatures are only those of authorized individuals. The MASO will ensure all signatures are original (faxed copies of originals, digitally scanned copies, or carbon copies are acceptable) and will be written in ink (black or blue-black). **(T-1)**. For automated systems using password controlled User-Ids, equivalent electronic signatures are acceptable. If an automated document has a signature block that is not electronically populated, the document is printed and signed.

4.5.3.1. The MASO must ensure accountable documentation is legible, accurate and auditable. **(T-1)**. For hard copy discrepancies that cannot be corrected, the MASO or designated personnel lines through and initials next to the discrepancy. For discrepancies affecting the stock record account, the MASO provides a detailed explanation of each discrepancy by memorandum of record. **(T-1)**. For minor errors and typos, a memorandum is not required. A signature by the Receiving Element of the Deployment and Distribution Flight, LRS (or equivalent) is not required when using a commercial carrier. The MASO shall retain the carrier's receipt with the accountable documents (e.g., staple the commercial receipt to the unsigned DD Form 1348-1A). **(T-1)**.

4.5.4. The MASO will ensure accountable documents are filed in document control, signed and dated, and reviewed for accuracy by authorized individuals prior to filing. Auditable documents do not need to be QC'd. The MASO implements the following:

4.5.4.1. QC all accountable documents and NUREPs prior to transmission. **(T-1)**. Do not delay performing QC check, report transmission, posting or filing because the MASO is not available. Upon return, the MASO will QC all accountable documents, which took place during their absence. **(T-2)**.

4.5.4.2. Use a QC guide for each accountable document prior to filing. Prepare guides to address all applicable requirements.

4.5.4.3. QC reviewer cannot be the person who generated the accountable document. **(T-1)**.

4.5.5. The MASO will control all original documents and file them in the account's document control files. **(T-1)**. Access to document control files is limited to individuals appointed IAW [paragraph 2.2.4.25](#). **(T-1)**. If an original document is lost or destroyed, the MASO obtains a copy of the original document (e.g., suspense copy), reviews it to ensure accuracy and certifies its accuracy with a statement of certification and their signature. The MASO will control the certified true copy in the same manner as an original document. **(T-1)**.

4.6. Consumption and Custody Accounting. Issued items are accounted for using either consumption or custody accounting procedures.

4.6.1. Consumption items are typically low cost, non-reparable and non-sensitive items (e.g., Group X Kits, small hardware, gaskets, nuts, bolts, screws, washers, grease) that are considered expendable. However, there are some DOE Spares Repair Listing (DSRL) items that are consumed into the next higher assembly (e.g., MC1828, CF2438, bomb fin, CF2437, etc.). These items are considered "consumed" and are dropped from accountable records when issued to authorized personnel.

4.6.2. Custody items that are reparable items (e.g., DSRL) must be continually accounted for until returned to the vendor, properly disposed of IAW authorized disposition instructions and pertinent disposal directives other than items which are to be consumption issued IAW [paragraph 3.6.1](#). Accountable Officers are not required to custody issue items to personnel within their unit. The appropriate commander designates a repairable item custodian responsible for the items issued to the unit until turned-in or expended (in the case of test items expended during SFT or other Operational Test and Evaluation (OT&E)). The custodian keeps records showing items in his or her custody. These records include a spare SE custody listing from the last time the items were inventoried, and copies of any documents affecting items in his or her custody that document transactions occurring since the last validation. Items are maintained on the accountable officer's records and posted to stock records as "In-Use" balances. **(T-1)**.

4.7. Stock Records and Control of Stock Records. Account stock records reflect current and historical balances of items on the account when an inventory line is applied. Balances change because of transactions posted to the account. MASOs should consider DIAMONDS restrictions when verifying stock record balances against actual on-hand balances.

4.7.1. Base and Military Spares are accounted for by part number but may also be accounted for by National Stock Number (NSN). A complete set of stock records consists of a separate stock record for each part number or NSN for which transactions have been posted. The stock record either is automated or is a manual card for items not accounted for as part of an automated system.

4.8. Inventories. Periodic inventories ensure account balances and item configurations are accurately reflected on the account. For the SIR, verification by an independent inventory-verifying officer is required by DoD regulations for TO 11N-100-3150 reportable items. **(T-0)**. Any time a new MASO is appointed, a 100% inventory ensures all accountable items are present prior to the new MASO assuming custodial responsibility for the items. Periodic spot-check inventories help ensure accuracy of account records between 100% inventories. HAF, MAJCOM, NCP or the MASO may direct special inventories to ensure specific items are present and properly accounted for on account records.

4.9. Audit Trails and Audits.

4.9.1. Audit trail. While a specific audit trail for each transaction varies by transaction type, there are general requirements that constitute an adequate audit trail. The audit trail begins with letters of authorization. These letters, signed by appropriate approving officials, IAW governing directives, provide the authorization for individuals to request and or receipt for property, report accountable transactions to the MASO, and maintain account records on behalf of the MASO. The audit trail continues with documents reporting accountable transactions to the MASO and source documents (e.g. receipt, shipping, issue, and turn-in documents, inventory adjustment vouchers and Stock Change Vouchers (SCVs)) supporting

the transactions themselves. Control these documents using document registers or control logs and numbered sequentially so that any missing documents are easily recognized. The audit trail includes proper preparation of these documents using approved procedures and signatures (when required) of approved individuals. Account stock records then tie the supporting documents to changes in account balances reflected on individual lines of the stock records. The audit trail continues with periodic inventories that demonstrate the accuracy of account balances compared to physical identification and counts of property. The audit trail also includes Certificates of Transfer of Accountability that contain beginning and ending transaction document numbers showing an unbroken chain between MASOs over time.

4.9.2. Periodic audits provide an independent assessment of account records to ensure proper accountability is maintained, an accurate audit trail exists and proper accounting procedures are being followed. Audits are performed either by an outside agency or by a verifying/audit officer appointed on orders to perform the audit. The audit consists of reviewing a representative (at a minimum of 20 percent) of accountable records to determine if approved accounting procedures are being followed and to assess the accuracy of accountable records and completeness of the audit trail. If inaccuracies or irregularities are discovered, or where an adequate audit trail does not exist, the sample is increased to determine the extent of the inaccuracy or irregularity. A 100% audit may be performed if the auditor deems it necessary, or when directed by local authorities or higher headquarters to reestablish accountability. In general, an audit provides assurance that:

4.9.2.1. The MASO has been duly appointed and meets qualifications required by pertinent directives.

4.9.2.2. A review of Certificates of Transfer of Accountability indicates an unbroken chain of accountability between MASOs.

4.9.2.3. Proper periodic inventories are being conducted as required and that stock records reflect accurate balances as of the latest 100% inventory.

4.9.2.4. Personnel properly authorized to maintain the account are posting transactions to account records as transactions occur and that personnel are knowledgeable of required procedures.

4.9.2.5. Required reports are submitted in accordance with directive timelines.

4.9.2.6. Transactions posted to accountable records are adequately supported by source documents that are properly prepared IAW appropriate directives, and that only properly supported transactions are posted to account records.

4.9.2.7. A review of document registers, document control logs and documents on file indicate that all original (or properly certified copies of original) accountable documents are on file.

4.9.2.8. Personnel who receive property are authorized to do so IAW appropriate directives.

4.9.2.9. An adequate audit trail exists indicating approved accounting procedures are followed.

Chapter 5

ACCOUNTING, ADMINISTRATION, AND MANAGEMENT OF NUCLEAR ACCOUNTS

5.1. General. These procedures apply to all activities directly or indirectly involved in the nuclear weapons program and are for FK nuclear managed accounts. These procedures provide supplementary Air Force guidance to TO 11N-100-1, *Supply Management of Nuclear Weapons Materiel*, TO 11N-100-2, *Supply Management of Limited Life Components*, TO 11N-100-4, *Custody, Accountability, and Control of Nuclear Weapons and Nuclear Materiel*, TO 11N-3150-8-1, *USAF DIAMONDS Policy and Procedures*, CJCSI 3150.04A, *Nuclear Weapons Stockpile Logistics Management and Nuclear Weapons Reports under the Joint Reporting Structure*, and TO 11N-100-3150, *Joint Reporting Structure, Nuclear Weapons Reports*.

5.2. Security Requirements. Accountable officers and custodians of nuclear weapons or nuclear components (e.g., LLCs, PCs) must be US citizens. **(T-0)**. For all other security procedures, applicable security directives take precedence if there is a conflict with this Instruction.

5.3. Accountable Systems. The following items are accounted for using the systems indicated unless alternate accountability procedures for specific items are directed by the NCP:

5.3.1. Accounts for TO 11N-100-3150 reportable items in DIAMONDS.

5.3.2. The MASO accounts for Base Spares in DIAMONDS.

5.3.3. In some cases, Military Spares (e.g., Type-3 Radar Nose or parachute, etc.) requisitions, receipts, issues, and turn-ins will be transacted in DIAMONDS.

5.3.4. DOE-owned SE is designated as Log Code A, B or D in Group Assembly Parts Lists.

5.3.4.1. The MASO accounts for DOE-owned SE in DIAMONDS using procedures in **Chapter 4** of this Instruction. **Note:** AF units are responsible for funding the return shipment of AN/PDR74As to DOE facilities.

5.3.5. Air Force Owned (DOE designed) SE. Logistics Readiness Squadron FE-accounts are utilized to account for SE items using the Integrated Logistics System – Supply (ILS-S), Air Force Equipment Management System (AFEMS) and procedures in AFI 23-101, Air Force Materiel Management.

5.3.6. Non-DIAMONDS units are authorized to track base spares using NMC2 (e.g., Containers, bolsters, AN/PDR-74, etc.).

5.4. Accountable and Auditable Documents. Units will maintain the following accountable and auditable records IAW AFMAN 33-363 and disposed of IAW the Air Force Records Disposition Schedule located in the Air Force Records Information Management System (AFRIMS). **(T-1)**. If information on the face of records reveals classified information, ensure the records are properly marked IAW AFI 16-1404, *Air Force Information Security Program*.

5.4.1. Auditable Documents. At a minimum, units will maintain the following auditable documents: **(T-1)**.

5.4.1.1. Appointment, designation, delegation and authorization letters of, but not limited to the following:

5.4.1.1.1. Designation of Personnel Authorized to Receipt for Classified

5.4.1.1.2. Designation of Personnel Authorized to Sign AF Form 504

5.4.1.1.3. MASO Appointment Letter

5.4.1.1.4. Designation of Personnel Authorized to Sign Accountable Documents on Behalf of the MASO

5.4.1.1.5. Designation of Personnel Authorized to Perform NARS Duties

5.4.1.1.6. Designation of Personnel to Order/Receive Base and Military Spares

5.4.1.1.7. Designation of Personnel to Request/Receive/Turn-In of Spares from NOCM

5.4.1.1.8. Designation of Personnel to Request/Receive Controlled Material

5.4.1.1.9. Designation of Primary/Alternate Custodians for Repairable Items

5.4.1.2. On-Base and Off-Base Document Register, and records of inventory for periodic, special and 100% inventories.

5.4.1.3. Spare SE Custody Listing, signed by the custodian, showing on hand balances of property in their sub-account upon assuming custodian duties or the date of the last custody inventory (whichever is latest).

5.4.1.4. Sub-Account Custodian records (e.g., copies of issue and turn-in documents (DD Form 1150s and SCVs) since the previous SIR.

5.4.1.5. Maintenance Activity Reports (MAR).

5.4.1.6. Nuclear weapon configuration records used to reflect association of nuclear weapons and components with a Reentry Vehicle/Reentry System (RV/RS) or multiple-carriage launch gear.

5.4.1.7. MFRs documenting correction of discrepancies affecting the stock record account. The unit will ensure MFRs contain the affected accountable document numbers, as well as a clear and concise description of the discrepancy. **(T-1)**.

5.4.1.8. Weapons Custody Transfer Document Register (AF Form 3126, *General Purpose Form*)

5.4.2. Accountable Documents. Units will maintain the following accountable documents: **(T-0)**.

5.4.2.1. Stock Records reflecting: transaction dates; document (voucher) numbers; consignors or consignees; balance increases, decreases or adjustments; current balances on hand.

5.4.2.2. Seal Program worksheets.

5.4.2.3. NUREP Messages to include: Weapons Status Reports (WSR), Quality Assurance Test Status Reports (QSR), Semi-annual Inventory Report message (SIR).

5.4.2.4. Documents associated to document registers to include:

5.4.2.4.1. Shipment and receipt documents to include: DD Form 1911, *Materiel Courier Receipt*; DD Form 1348-1A, *Single Line Item Release/Receipt Document*.

5.4.2.4.2. Issue and Turn-in (DD Form 1150, *Request for Issue or Turn-In*).

5.4.2.4.3. Stock Change Vouchers (AF Form 160s).

5.4.2.4.4. Inventory Adjustment Vouchers (supporting documents listed in [paragraph 7.8.1](#) are auditable).

5.4.2.4.5. AF Form 504, *Weapons Custody Transfer Document*.

5.4.2.4.6. Certificates of Transfer of Accountability.

5.5. Document Control. The MASO is responsible for all transactions processed by the NARS personnel. The MASO will ensure the following procedures are used:

5.5.1. Use a centralized document control system. **(T-1)**. The MASO will ensure maintenance of two document registers, one for on-base transactions (issues, turn-ins and SCVs) and the other for off-base transactions (requisitions, receipts and shipments). **(T-1)**. Maintain these registers in DIAMONDS automated formats, where possible. Use AF Form 36, *Supply Document Register*, if DIAMONDS is not available. The MASO will ensure only authorized NARS account personnel make entries on these registers.

5.5.1.1. On-base document numbers are formatted with a two-digit fiscal year and a four-digit document serial number, assigned sequentially by fiscal year (e.g., 05-0001, 05-0002, beginning 1 Oct 05). **Note:** Leading zeroes are included for DIAMONDS to sort the document numbers correctly).

5.5.1.2. Off-base documents are assigned using the SRAN, one-digit calendar year, followed by the Julian date and four-digit sequential document number for that calendar year (e.g., FK236541010254 for the 254th document assigned in 2014 which was issued on 11 April). **Note:** Leading zeroes for this sequence number must also be included for DIAMONDS to sort the document numbers correctly.

5.5.1.2.1. When an item requisitioned by the unit is received, NARS will use the requisition number assigned from the Off-Base register at the time the requisition was made to account for the receipt.

5.5.1.2.2. For items that are received without being requisitioned (i.e., force-shipped items, including weapons and components), see [paragraph 4.9.2.1](#)

5.5.1.2.3. For items to be shipped, assign the next available off-base sequence number for each item P/N and destination.

5.6. Stock Control. MASOs must ensure appropriate stock levels are maintained. **(T-1)**. Stock levels for the following type items are determined as indicated.

5.6.1. DOE Major Assemblies, Components, Retrofit Kits and Test Items. Established levels do not exist for these items. They are force shipped to units based on stockpile allocations (see [AFI 21-204, Chapter 3](#)), LLC replacement schedules, retrofit orders (RO), test plans and operational orders.

5.6.2. WR Containers and Bolsters. Units are authorized to maintain base spares container/bolster for each WR and Type trainer. All others are approved via USAL.

5.6.2.1. **(USAFE units only)** Units maintain a minimum of one serviceable bolster or container and an appropriate number of serviceable caster sets for each assigned WR weapon. Additionally, units are authorized suitable bolsters/containers to transport assigned Type 3 trainers.

5.6.3. Military Spares. In the event units wish to maintain stock levels for military spares, units will utilize the USAL process as outlined in this Instruction and TO 11N-100-1.

5.6.4. Base Spares. Base Spare stock levels are authorized by approval of the USAL. The USAL shows DOE part number, noun, reorder point and maximum quantity authorized. Units will report quantities that exceed the maximum authorized as excess IAW procedures in **paragraph 5.7.** of this Instruction. **(T-1)**. For determining quantities authorized on hand, a higher number suffix of a part number may be counted against the level of a lower suffix part number, as long as the basic part number is the same.

5.6.4.1. USAL development, coordination, annual USAL inventory and approval procedures are located in TO 11N-100-1, *Supply Management of Nuclear Weapons Materiel*. Units will reconcile their USAL against the BMSS NLT 30 days after final levels are approved. **(T-1)**.

5.7. Excess Item Reporting and Disposition of Assets. Units will request disposition of serviceable items in excess of authorized level or unserviceable items for which no disposition instructions have been provided or for which disposition is unclear (this does not pertain to XB3 items). **(T-1)**. NCP will receive/document all disposition requests in Nuclear Munitions Command and Control (NMC2). **(T-2)**.

5.7.1. Excess Serviceable Base Spares. NCP must report excess serviceable military spares. NSC furnishes disposition for these items. For items returned to NSC, ensure the Material Return Authorization (MRA) number provided with disposition instructions is clearly marked as shown in the address. **(T-2)**. If no MRA number is provided, contact NSC Program Management personnel for further guidance. **(T-2)**.

5.7.2. Excess Serviceable Military Spares. Unit must report all excess serviceable military Spares IAW TO 11N-100-1. **(T-0)**.

5.7.3. Unserviceable Repairable Items. The DSRL provides disposition for repairable Base Spares, Military Spares and DOE SE. Return these items to the facility indicated on the DSRL for repair. For items returned to NSC, units will refer to TO 11N-100-1. **(T-0)**.

5.7.4. Unserviceable Consumable Items. Except for Unsatisfactory Report (UR) exhibits, dispose of these items IAW applicable technical data. **(T-0)**. MASO/NARS will retain UR exhibits (unserviceable condition) on accountable record until receipt of UR disposition. **(T-1)**. The MASO will ensure items are disposed of IAW UR disposition instructions. **(T-0)**. The MASO will ensure, if local disposition is authorized, a consumption issue is processed to Maintenance for action. **(T-1)**. The MASO will reference the UR number on all accountable documents (shipment, consumption issue, etc.). **(T-1)**.

5.7.5. Excess Limited Life Component, Group-X Kits and Retrofit Kits. Request the disposition of these items from the NCP, as applicable. **(T-2)**.

5.7.6. The MASO will ensure USAL items with expired service or shelf life reflect an unserviceable condition. **(T-1)**. If items can be used for training, retain on record until training can be conducted. **(T-1)**. The MASO will ensure if items cannot be used for training, they are retained on record until disposition can be conducted. **(T-1)**. The MASO will ensure expired USAL items are consumption issued to Maintenance/training for either local disposal or training use. **(T-1)**.

5.8. Requisitions.

5.8.1. The MASO will not requisition the following items, unless directed to do so by MAJCOM, UR or NCP:

- 5.8.1.1. DOE Major Assemblies, LLC Kits, Group X Kits, and Test Items.
- 5.8.1.2. Retrofit Kits (unless specifically directed by the ROs).
- 5.8.1.3. Items in excess of authorized levels.
- 5.8.1.4. Replacement H1616/H1700 containers.
- 5.8.1.5. Replacement parachutes (submit UR).
- 5.8.1.6. Replacement parts that are the subject of UR.

5.8.2. The MASO will requisition Base Spares and Military Spares IAW TO 11N-100-1. **(T-0)**. In addition, the MASO will comply with the following procedures:

- 5.8.2.1. If the requisition is made because of an issue request from maintenance that cannot be filled from existing stock, prepare AF Form 2005, *Issue/Turn-in Document*, or locally developed form, for suspense purposes only. **(T-3)**. Units will keep this document with the suspense copy of the requisition until receipt and issue of the item, then discard the AF Form 2005 or locally developed form. **(T-3)**.
- 5.8.2.2. Assign a requisition number from the Off-Base register for each part number ordered and post requisitions to the register at the time requisitions are placed. **(T-2)**. NCP will order Base and Military Spare parts authorized because of a UR and force ship them to the unit. When contacted by NCP personnel, provide the next off-base document number and post requisition to the register. **(T-2)**. The UR response will reflect follow-on maintenance actions to include the associated requisition number.
- 5.8.2.3. If items are not received or a backorder is not established within 5 days for CONUS and 15 days for OCONUS, follow-up with NSC Program Management personnel to determine status and estimated delivery date. **(T-2)**. If an established delivery date is unacceptable to meet mission requirements, units will coordinate with the NCP to determine the best alternative course of action. **(T-2)**. NSC Management Personnel should push updates to units within 5 days for CONUS and 15 days for OCONUS on backorder items to include EDD's. NCP will follow up for the units.
- 5.8.2.4. If items are not received by the estimated delivery date for backordered items, continue to follow-up (at least every 30 days) until items are delivered or a new estimated delivery date is established. **(T-2)**. NCP will track MS/BS items ordered through NSC/BMSS. **(T-3)**. NCP will follow up for the units.

5.9. Receipts.

5.9.1. Processing Receipt Documents. Process DD Form 1348-1A, or other similar document used by the consignor as follows:

5.9.1.1. For WR Major Assemblies, components and test items, the MASO will:

5.9.1.1.1. Process according to instructions in TO 11N-100-2 or TO 11N-100-4, as appropriate. **(T-0)**.

5.9.1.1.2. For items containing DOE SS nuclear material, also process DOE/NRC Form 741, Nuclear Materiel Transaction Report, according to instructions in TO 11N-100-4. **(T-0)**. Annotated forms accompany nuclear material received from the DOE. In the event the DOE/NRC Form 741 is not received with the shipment, units will contact the NCP to obtain the form from the shipping agency. **(T-2)**. If the item is subsequently shipped to another Air Force agency, units will ensure the DOE/NRC Form 741 is shipped to the receiving agency. **(T-2)**.

5.9.1.1.3. For explosive items received with a DOE Interim Hazard Classification (IHC), a copy of the DOE IHC Memorandum will accompany the item. NARS will maintain the IHC for each component as long as items are on hand. **(T-2)**. If the explosive item is subsequently shipped to another Air Force agency, ensure the DOE IHC is shipped to the receiving agency. **(T-2)**. Refer to AFMAN 91-201 and T.O. 11N-20-7 for further guidance on Interim and Formal DoE hazard classifications.

5.9.2. Posting and Filing Receipt Documents. The MASO will:

5.9.2.1. For items the unit did not requisition (e.g., forced shipped) assign the next available document number from the Off-Base register for the Julian date the item was received and annotate it on the face of the receipt document. **(T-1)**. Use this document number to control the document locally. The MASO will input the shipper's document number in the "Remarks" column of the register, and file the document in document control. **(T-1)**.

5.9.2.2. For items requisitioned by the unit, use the original requisition number as the controlling document number. **(T-1)**. The MASO will annotate quantity received and date received in column A of the Off-Base register. **(T-1)**. For partial receipts, the MASO will use column B or C for future partial receipts under the same requisition. **(T-1)**.

5.9.2.3. Post the receipt to stock records by processing the receipt in DIAMONDS. **(T-1)**.

5.9.2.4. In addition to posting stock records, ensure the proper H-Gear associations are made in the DIAMONDS database. **(T-1)**. Maintenance advises the MASO of H-Gear association using the MAR. **(T-1)**. The MASO will report subsequent H-Gear association changes IAW [Chapter 9](#). **(T-1)**.

5.9.2.5. File copies of courier receipts (DD Form 1911, *Materiel Courier Receipt*) for classified shipments with applicable documents in the permanent document file. **(T-1)**.

5.10. Shipment of Materiel.

5.10.1. General Instructions.

5.10.1.1. Accountable personnel will follow procedures in TO 11N-45-51 series publications, 11N-100 series publications and AFI 13-526v1, *Prime Nuclear Airlift Force Operations*, for all shipments of nuclear weapons materiel by military air or by DOE truck, trailer or air. **(T-0)**. Included are specific and general transportation procedures and courier responsibilities, and documentation and custody transfer requirements.

5.10.1.2. Personnel will not package Military Spare and Base Spare items together, except in a consolidated shipment where the items are prepackaged separately.

5.10.2. Preparing and Processing Shipping Documents. Personnel will use a DD Form 1348-1A for all shipments. **(T-0)**. **Note:** Care should be used to not classify the DD Form 1348-1A; do not include weapon type nomenclature/identifier on shipping documents. **Note:** Use care not to classify the 1348-1. Personnel will prepare a DD Form 1348-1A IAW applicable Service directives. **(T-1)**. Personnel will assign the next available document number(s) from the off base register and use it to control the document. Personnel will not prepare a separate DD Form 1348-1A for associated containers or bolsters. **(T-2)**. Instead, personnel will show the part numbers and quantities of containers or bolsters on the DD Form 1348-1A for the end item and use procedures for assigning a different document number and posting stock record cards for associated containers and bolsters. **(T-2)**. Personnel will prepare and process DD Form 1348-1A for shipments as follows:

5.10.2.1. For WR Major Assemblies, components/kits, shipping containers, and/or test items, accountable personnel will:

5.10.2.1.1. Prepare and process according to instructions in TO 11N-100-2 or TO 11N-100-4, as appropriate. **(T-1)**. For shipments to DOE facilities only, personnel will include with shipment documentation a current paper copy of the DIAMONDS IDR (if applicable) showing internal component serial numbers, due date, weapon condition, and defect information. **(T-1)**.

5.10.2.1.1.1. TO 11N-100-3150 reportable items do not require a part number suffix or re-work number on shipping documentation (e.g., 123456-01 re-work 02, will be documented as 123456).

5.10.2.1.2. IHC will be completed/maintained IAW TO 11N-100-4. Do not offer military or commercial transportation if the DOE IHC is expired; personnel will contact the NCP for guidance. **(T-2)**.

5.10.2.2. For all other Military Spares and Base Spares accounted for in DIAMONDS, personnel will prepare DD Form 1348-1A according to instruction in [Table 5.1](#) **(T-1)**.

Table 5.1. Preparing DD Form 1348-1A, *Single Line Item Release/Receipt Document*, for Spares.

PREPARATION OF DD FORM 1348-1A		
COLUMN/ BLOCK	DESCRIPTION	ENTRY
Columns 1 - 80	See Form	Leave blank.
Block 1	TOTAL PRICE	
Block 2	SHIP FROM	SRAN and address of consignor (shipper).
Block 3	SHIP TO	SRAN and address of ultimate consignee (receiver) or intermediate storage location.
Block 4	MARK FOR	Address of ultimate consignee (receiver) or leave blank if same as Block 3.
Block 5	DOUMENT DATE	Julian date when document was created (not actual date of shipment).
Blocks 6 and 7	NMFC // FREIGHT RATE	Leave blank.
Blocks 8 and 9	TYPE CARGO // PS	
Block 10	QTY RECEIVED	Self-explanatory.
Block 11	UNIT PACK	Leave blank.
Block 12	UNIT WEIGHT	Weight of item in container.
Block 13	UNIT CUBE	Size of one container (cubic feet).
Blocks 14 & 15	UFC // SL	Leave blank.
Block 16	FREIGHT CLASSIFICATION NOMENCLATURE	
Block 17	ITEM NOMENCLATURE	Self-explanatory.
Block 18	TYPE CONTAINER	Leave blank.
Block 19	NUMBER COUNT	Number of containers for entire document.
Block 20	TOTAL WEIGHT	Total weight of items on document. (Block 12 x Block 19 = Block 20)
Block 21	TOTAL CUBE	Total size of container (cubic feet). (Block 13 x Block 19 = Block 21)
Block 22	RECEIVED BY	Printed name/signature of consignee (receiver).
Block 23	DATE RECEIVED	Self-explanatory.
Block 24 (30-44)	DOC# & SUFFIX	Assigned from off-base register.
Block 25 (8-22)	NSN & ADD	Self-explanatory.
Block 26 (4-6)	ROUTING IDENTIFIER CODE	Leave blank.
Block 26 (23-24)	UNIT OF ISSUE	Self-explanatory. (Example: 00015)
Block 26 (25-29)	QUANTITY	
Block 26 (71)	CONDITION CODE	Leave blank.
Block 26 (54-56)	DISTRIBUTION	
Block 26 (74-80)	UNIT PRICE	
Block 27	ADDITIONAL INFORMATION	Will be used for the following or other pertinent data: 1. Serial numbers 2. MRA number (if assigned)
Reverse Side of Form		If additional space is needed to record serial numbers, use reverse side of form.
Note: Care should be used to not classify the DD Form 1348-1A. Do not include weapon type nomenclature/identifier on shipping documents.		

5.10.3. Posting and Filing Shipping Documents.

5.10.3.1. For items shipped through LRS, they will sign the “Received By” block and return the document to NARS personnel. For items shipped via commercial carrier, retain the carrier's receipt and file with the unsigned DD Form 1348-1A. **(T-1)**.

5.10.3.2. For items shipped via DOE/OST or AMC SAAM missions:

5.10.3.2.1. The Courier will sign the DD Form 1911, *Courier Receipt*. **(T-1)**.

5.10.3.2.2. NARS will file the original DD Form 1348-1A, with signed DD Form 1911 attached, in document control. **(T-1)**.

5.10.3.2.3. NARS will post the “Date Filed” column on the Off-Base register for that document number. **(T-1)**.

5.10.3.2.4. When a Commercial Bill of Lading (CBL) is directed for a DOE shipment, NARS will email an electronic copy of the completed CBL NLT the next duty day to the NCP. **(T-2)**.

5.10.3.3. At the time of the shipment, NARS will post the shipment to stock records by processing the shipment in DIAMONDS. **(T-1)**.

5.11. Issues, Turn-ins, and Expenditures.

5.11.1. General Instructions. Except for TO 11N-100-3150 reportable items and their associated containers and bolsters, which are issued or turned-in automatically (if required), authorized individuals will request issue or turn-in of items via phone or in person. **(T-2)**. To requisition an out of stock item, the requesting organization will prepare AF Form 2005 (or locally developed form). **(T-2)**. NARS personnel will file the request as a suspense copy until the item arrives and is issued (see [paragraph 5.8.2](#)). **(T-2)**. NARS personnel will prepare the appropriate issue/turn-in documents for signature by authorized individuals upon issue or turn-in of the property. **(T-1)**.

5.11.1.1. NARS will issue expendable base and military spares to authorized personnel on a consumption basis. **(T-1)**. If NARS personnel determine items are expendable and must be turned in, they will use Found on Base (FOB) turn-in procedures. **(T-1)**.

5.11.1.2. NARS will issue/turn-in DSRL items to or from the maintenance activity using custody procedures in [paragraph 5.12](#). **(T-1)**. The designated custodian or alternate must sign these documents. **(T-1)**. EXCEPTION: DSRL items that are to be subsumed by a higher assembly will be issued by NARS on a consumption basis IAW with [paragraph 5.11.1.1](#). **(T-1)**. **Note:** NARS is not required to issue items to a custodian within the same unit.

5.11.1.3. NARS will issue/turn-in unassociated WR containers and bolsters or WR containers and bolsters that are associated to weapons trainers to/from the applicable maintenance section. **(T-1)**. The designated custodian or alternate must sign these documents. **(T-1)**. **Note:** NARS is not required to issue items to a custodian within the same unit.

5.11.1.4. Turn-in items FOB using DD Form 1150, *Request for Issue or Turn-in*, and FOB Turn-in procedures in DIAMONDS. **(T-1)**. FOB turn-in is required for any item not currently reflected on the account, but which must be picked up on account to

properly establish and maintain accountability or to process the item for shipment. **(T-1)**. Based on serviceability, NARS will post the DD Form 1150 to stock records. **(T-1)**. The following are some examples of items requiring FOB turn-in:

- 5.11.1.4.1. DSRL or DOE SE items not currently on account but discovered to be on hand.
 - 5.11.1.4.2. Serviceable excess non-DSRL items possessed by maintenance, but that require processing for shipment.
 - 5.11.1.4.3. Non-DSRL items that are UR exhibits and must be shipped out for further examination.
- 5.11.2. Document Preparation. NARS personnel will prepare issue and turn-in documents using DIAMONDS generated documents. **(T-1)**. NARS personnel will prepare separate documents for each part number. **(T-2)**. NARS personnel will use the next available document number from the On-Base register to control the document. **(T-1)**.
- 5.11.2.1. For TO 11N-100-3150 reportable items, NARS personnel will use DIAMONDS generated documents or NARS personnel will prepare documents IAW procedures in TO 11N-100-4 or TO 11N-100-2, as applicable. **(T-0)**.
 - 5.11.2.2. For other items listed in [paragraph 5.12](#), NARS personnel will use DIAMONDS generated documents.
 - 5.11.2.3. Fill out the DIAMONDS generated version of the DD Form 1150 IAW TO 11N-3150-8-1, print, and then complete the form using the instructions below:
 - 5.11.2.3.1. For Issues: The authorized NARS individual will print/sign and date “Issue or Turn-in of Quantities” block as the issuer. **(T-1)**. The Receiver will print/sign and date the “Received Quantities in Supply Action Column” block. **(T-1)**.
 - 5.11.2.3.2. For Turn-Ins, the account custodian will print/sign and date the “Issue or Turn-in of Quantities” block for custody account items. **(T-1)**. For FOB Turn-Ins, the person turning the item into NARS will print/sign and date for FOB transactions in the “Issue or Turn in of Quantities” block. **(T-1)**. The NARS representative will print/sign and date the “Received Quantities in Supply Action Column” block. **(T-1)**.
 - 5.11.2.3.3. The “Request Number” block is left blank. The “Remarks” block is utilized at the discretion of the unit. The “From” and “To” blocks are filled out with the shop or account of the shipper, issuer, or receiver as necessary (you may have to do this manually). **(T-1)**. Additional information may be added to any portion of the documents at the discretion of the unit.

5.12. Custodian Accounting Procedures. Instructions in this paragraph apply to individuals designated as Repairable Item Custodians or alternates.

- 5.12.1. General Instructions. Individuals, granted custody of government property, have an inherent responsibility for protecting and accounting for that property. Commanders must provide reasonable protection for the property consistent with mission requirements, and maintain adequate records reflecting the status of property in their custody. **(T-1)**. Commanders must maintain the property in a serviceable condition to the greatest extent possible and turn-in property that cannot be repaired for proper disposition by the

accountable officer. **(T-1)**. Commanders must periodically inventory property in their custody to ensure its continued accountability (see [paragraph 7.6](#)), and they immediately report any lost or destroyed property to their commander and the accountable officer for appropriate action (see [paragraph 7.8](#)). **(T-1)**.

5.12.2. The MASO establishes custody sub-accounts for each custodian. The office symbol is entered in DIAMONDS "storage area" field for items issued to each custodian. In DIAMONDS, use the actual storage facility number for the Storage Location. Accountable officers are not required to custody issue items to personnel within their unit.

5.12.3. The designated custodian for each sub-account and the MASO must maintain duplicate records to account for property issued on custody to the sub-account. **(T-1)**. These records include, but are not limited to, the following:

5.12.3.1. Designation of Personnel Authorized to Request/Receive Controlled Materiel.

5.12.3.2. Designation of Primary/Alternate Reparable Item Custodian.

5.12.3.3. A Spare SE Custody Listing, signed by the custodian, showing on hand balances of property in their sub-account upon assuming custodian duties or the date of the last custody inventory (whichever is latest).

5.12.3.4. Sub-Account Custodian records (e.g., copies of issue and turn-in documents [DD Forms 1150] and SCVs) since the last SIR.

5.13. Accounting for Retrofit Kits. Retrofit kits are normally force shipped to units based on quantities of items that the unit possesses requiring the retrofit. The custodian will:

5.13.1. Issue retrofit kits to maintenance using consumption or custody procedures, as applicable, based on whether the retrofit requires return of removed items to the vendor. **(T-2)**.

5.13.2. Issue "Training" retrofit kits using consumption and custody procedures, as applicable. **(T-3)**.

5.13.3. Issue Extended-Level attrition and tool kits, as needed, using custody procedures. **(T-2)**. **Note:** NARS is not required to issue items to a custodian within the same unit.

5.14. Stock Change Vouchers (SCV). The MASO/NARS will use SCVs to document LLC exchanges, component removal and installation, part number changes, condition code changes of spares and (SE), and color code changes for TO 11N-100-3150 reportable items. **(T-0)**.

5.14.1. Accounting for LLC and component removals and installations:

5.14.1.1. A single document number may be assigned for all removals or installations of a given part number posted in a single DIAMONDS session. If a different part number is installed than was removed, the MASO/NARS will use a separate SCV for each part number. **(T-2)**.

5.14.1.2. The MASO/NARS will use Section I of the SCV to record the part number, serial numbers of removed and installed items, and beginning and ending account balances for the part number. **(T-1)**. (The balances will be from either warehouse or In-Use columns on stock records depending on custody status.)

5.14.1.3. The MASO/NARS will record the document number assigned to the SCV in the "Base Document Number" block. **(T-2)**.

5.14.1.4. The MASO or NARS authorized individual will enter their printed name and signature in the "Signature" block and the date signed in the "Date" block. **(T-2)**.

5.14.1.5. The MASO/NARS will post the transaction to DIAMONDS stock records, as applicable. **(T-2)**. Removals and installations are posted on separate lines. For removals and installation of the same part numbered item, balances on the SCV reflect the beginning balance before either transaction is posted and the ending balance after both the removal and installation are posted.

5.14.2. Accounting for Weapon Color Code and Spare Condition Code Changes. The MASO/NARS will account for items only upon initially being turned red for the first red reason of any category or upon being turned yellow after eliminating all red reasons of all categories (this includes spares and (SE)). **(T-2)**.

5.14.2.1. The MASO/NARS will assign a single document number for all changes of a given part number posted in a single DIAMONDS session. **(T-2)**.

5.14.2.2. The MASO/NARS will use Section II of the SCV to record the part number, "from" and "to" color codes and condition codes (i.e., serviceable/unserviceable), serial number(s) of affected items (if applicable), and beginning and ending account balances for each part number. **(T-2)**. (The balances will be from either warehouse or In-Use columns on stock records depending on custody status.)

5.14.2.3. The MASO/NARS will record the document number assigned to the SCV in the "Base Document Number" block. **(T-2)**.

5.14.2.4. The MASO or other authorized individual will enter their printed name and signature in the "Signature" block and the date signed in the "Date" block. **(T-2)**.

5.14.2.5. The MASO/NARS will post the transaction to DIAMONDS stock records, as applicable. **(T-2)**.

5.14.3. Accounting for Part Number Changes.

5.14.3.1. The MASO/NARS will assign a single document number for all part number changes of a given "from part number" and "to part number" combination posted in a single DIAMONDS session. **(T-2)**.

5.14.3.2. The MASO/NARS will use Section III of the SCV to record the "from" and "to" part numbers, serial numbers of affected items, and beginning and ending account balances for each part number. **(T-2)**. (The balances will be from either warehouse or In-Use columns on stock records depending on custody status.)

5.14.3.3. The MASO/NARS will record the document number assigned to the SCV in the "Base Document Number" block. **(T-2)**.

5.14.3.4. The MASO or other authorized individual will enter their printed name and signature in the "Signature" block and the date signed in the "Date" block. **(T-2)**.

5.14.3.5. The MASO/NARS will post the transaction to DIAMONDS stock records, as applicable. **(T-2)**.

Chapter 6

STORAGE OF COMPONENTS, SPARES, AND SEALED WARHEAD CONTAINERS.

6.1. Spares Storage.

6.1.1. NARS Warehouse. The MASO will establish a secure area (NARS warehouse) for storage of spares that are on account and not in the custody of maintenance personnel. **(T-1)**. When storing classified components, the MASO will ensure the NARS warehouse meets the minimum requirement for bulk storage IAW AFI 16-1404. **(T-1)**.

6.1.1.1. The MASO will ensure the local storage plan specifies the building(s) and room(s) used for the NARS warehouse and applicable security precautions used to ensure limited access to items stored in the warehouse. **(T-3)**. In addition, the MASO must ensure the plan clearly defines the meaning of location designations used on accountable records. **(T-3)**.

6.1.1.2. The MASO must ensure Base Spare (BS) and Military Spare (MS) items in storage are not co-mingled. **(T-1)**. The MASO will ensure the storage bins are conspicuously marked. "Base Spare Assets Only" and "Military Spare Assets Only" to indicate type of spares authorized for storage within bin rows (not applicable for large items such as bolsters and containers, etc.). **(T-3)**. The MASO will ensure excess spares are segregated from other stock and identified as "excess." Serviceable and unserviceable items will be segregated within the warehouse. **(T-3)**.

6.1.1.2.1. To avoid co-mingling stock, and possibly using unapproved parts on WR end items, the MASO will ensure USAL items are physically segregated (i.e., separate and clearly marked bin, area of the room) from non-USAL and USAL excess items, such as Air Force bench stock or other operating stock. **(T-2)**.

6.1.1.2.2. The MASO will prepare bin labels or serviceability tags for each non-reparable USAL item part number stored within the maintenance activity. **(T-3)**. As a minimum, the MASO will include bin number or location, part number, nomenclature, minimum (suggested re-order) quantity, and maximum quantity on the label or tag. **(T-3)**.

6.1.1.2.3. NARS personnel will perform "walkthrough" checks of bins and storage locations to determine if items need to be replenished. **(T-3)**. NARS personnel will then requisition required items through Base and Military Spares Server (BMSS). **(T-3)**.

6.1.1.3. Personnel will use DD Form 1574, *Serviceable Tag - Materiel*, DD Form 1575, *Suspended Tag - Materiel*, DD Form 1577, *Unserviceable (Condemned) Tag - Materiel*, to identify stored property. **(T-1)**. Personnel will mark condition tags with standard entries IAW AFI 23-101 and the designation BS or MS. **(T-1)**. National stock numbers are not required. Personnel will include the precautionary phrase from the stock list and the statement "ITEM CONTAINS TRAINING CATEGORY SOURCE AND SPECIAL (SS) NUCLEAR MATERIEL" on applicable items. **(T-2)**. For all classified components, in the condition tags remarks section, Personnel will stamp or print "CLASSIFIED ITEM." **(T-2)**.

6.1.1.4. For Group X kits and shelf life items, personnel will establish local controls ensuring items are stored so those oldest assets are issued first. **(T-3)**. Personnel will ensure compliance with shelf life restrictions identified in specific item TOs. **(T-3)**.

6.1.2. Storage of Assets Temporarily Issued to Maintenance, or on Custody Accounts. When NARS issues items, the designated custodian or section chief must ensure items not in use are properly stored to preclude loss or damage.

6.1.3. Storage of limited life components and nuclear weapons components within Maintenance Activities.

6.1.3.1. The MASO will ensure nuclear components are stored in approved containers under appropriate security. **(T-0)**.

6.1.3.2. H1616/H1700 containers may be stored in WS3s containing WR weapons. H1616/H1700 containers may be pre-positioned within the maintenance facility as long as the MASO ensures the criteria in DoD S-5210.41M and AFMAN 31-108, *Nuclear Weapons Security Manuals*, are met. **(T-0)**.

6.1.3.2.1. Upon receipt of H1616/H1700, the MASO will ensure Department of Transportation (DOT) expiration dates are entered into NMC2. H1616 and H1700 container serial numbers, DOT expiration dates, and content condition will be updated in the NMC2 SharePoint Environment as changes occur. NARS personnel will use expiration dates to ensure assets are not shipped in overdue containers beyond the military first destination. **(T-3)**.

6.2. Seal Program. AF/A4 designates service approved warhead container seals IAW TO 11N-100-3150, *Joint Reporting Structure; Nuclear Weapons Reports*.

6.2.1. To preclude opening warhead containers without view ports, to verify contents during inventories, other than SEV, units may elect to seal containerized warheads in storage. If units choose to seal containerized warheads, the provisions in **paragraph 6.2**, TO 11N-100-3150, and procedures listed below apply.

6.2.2. Seals may be issued to applicable work center as long as the MASO will address control of seals in local procedures. **(T-3)**. The MASO will maintain an accountable system to identify warhead serial number and associated seal serial number(s) installed on the container. **(T-1)**. The MASO must ensure duplicate serial numbered seals are not issued and/or installed on containers. **(T-3)**.

6.2.3. The MASO will utilize the worksheet contained in **Figure 6.1** and maintain it with in the local files plan (see **Figure 6.1**) **(T-3)**. The Maintenance technician and verifier will fill out this form and return to the MASO. **(T-3)**. In turn, the MASO will utilize this worksheet to update the controlled electronic accountable system. **(T-3)**.

6.2.3.1. The MASO will ensure the worksheet contains, at a minimum, the following information: **(T-3)**.

6.2.3.1.1. Nomenclature/Serial Number

6.2.3.1.2. Seal Serial Number

6.2.3.1.3. Date (of installation and/or removal)

6.2.3.1.4. Name of Technician (for installation and removal)

6.2.3.1.5. Name of Verifier (for installation and removal)

Figure 6.1. Sample of locally devised Seal Program Worksheet.

SEAL PROGRAM WORKSHEET							
		INSTALLATION			REMOVAL		
Warhead/SN	Seal SN(s)	Date	Technician	Verifier	Date	Technician	Verifier

6.2.4. Seal Installation Procedures.

6.2.4.1. Prior to closing warhead container, two weapon system JQS qualified individuals (one member must be TC certified) will verify the permanently etched, engraved or stamped warhead serial number with the non-permanent serial number on the warhead and the warhead serial number painted on the exterior of the container. **(T-1)**. Then the TC will complete the Seal Program Worksheet. **(T-1)**.

6.2.4.2. After closing container, install seal as snugly as possible in such a manner that prevents opening container without removing or damaging installed seal. Then the TC will complete the Seal Program Worksheet. **(T-1)**. Do not cut excess wire rope. **(T-1)**.

6.2.5. Seal Removal Procedures.

6.2.5.1. Remove by cutting through wire rope; retain seal(s) for further destruction by the MASO or designated representative. **(T-3)**. Fill in the Seal Program Worksheet as required. **(T-3)**.

6.2.5.2. After opening container, verify warhead serial number and the warhead serial number painted on the exterior of the container. **(T-2)**. Fill in the Seal Program Worksheet as required. **(T-3)**. If discrepancy exist, notify MAJCOM.

6.2.5.3. MASO or designated representative will destroy seal(s) by cutting wire rope flush with locking device at all ends and smashing the locking device. **(T-3)**.

Chapter 7

INVENTORIES AND AUDITS OF NUCLEAR ACCOUNTS

7.1. General. TO 11N-100-3150 reportable items are inventoried using procedures in TO 11N-100-3150 and this AFI. The MASO will investigate out-of-balance conditions found during any inventory to determine their causes. **(T-2)**. The MASO will resolve losses and document findings using the procedures in **paragraph 7.8. (T-1)**.

7.2. Inventory Requirements.

7.2.1. Change of MASO. Each time a new MASO is assigned, gaining and losing MASO's will conduct a 100% inventory of the account. **(T-1)**.

7.2.2. Change of Custodian. Each time a new Reparable Item custodian is assigned, the gaining custodian must conduct a 100% inventory of items issued to their sub-account. **(T-2)**. Custodians will report any unresolved discrepancies to the MASO and the appropriate commander to initiate a Report of Survey (or other appropriate action) prior to signing the Spare SE Custody listing and assuming responsibility for the account. **(T-2)**.

7.2.3. Monthly 10% Spot Check Inventories. NARS monitors will conduct monthly 10% spot check inventories (except SIR months) IAW **paragraph 7.6. (T-3)**.

7.2.4. Semi-Annual Inventory. The MASO and custodians will inventory TO 11N-100-3150 reportable items semi-annually. **(T-0)**. The MASO and custodians will adhere to the procedures in TO 11N-100-3150 along with procedures in this AFI. **(T-0)**. The SIR procedure creates an independent inventory that reports the national nuclear weapon stockpile by serial number and quantity for each location. The MASO will prepare and submit as outlined in TO 11N-100-3150. **(T-0)**. The MASO will forward waiver request to change the SIR date to the NCP through the applicable MAJCOM. **(T-1)**.

7.2.4.1. Inventory the following items in conjunction with the SIR:

7.2.4.1.1. Base and Military Spares.

7.2.4.1.2. DOE owned equipment items.

7.3. Semi-annual Inventory Procedures. Once initiated, the MASO and custodians will make the semi-annual inventory their only duty over all maintenance activities. **(T-3)**. Situations may arise during the inventory that dictates the need for reportable actions. Final approval/disapproval for TO 11N-00-3150 reportable actions rests with the applicable commander. The MASO is the inventory officer for the semi-annual inventory. In the event the MASO is unavoidably absent (e.g., emergency leave), the MASO appointing authority appoints an alternate inventory officer in writing. The replacement officer must meet the minimum requirements for a MASO. **(T-3)**.

7.3.1. Before the semiannual inventory required in TO 11N-100-3150, the inventory officer (MASO) will brief the verifying officer concerning his or her inventory responsibilities and all aspects of the inventory. **(T-2)**.

7.3.2. Immediately before or during the semiannual inventory of items in TO 11N-100-3150, maintenance personnel will take an inventory to ensure availability of pullout cables and other accessory items required for operational flexibility. **(T-2)**.

7.3.2.1. These items are identified in the inspection section of applicable technical publications. Cables and accessories are stored or attached to certain bombs in a package commonly referred to as a saddlebag.

7.3.2.2. If an accessory item is missing, maintenance personnel will consider the bomb operational unless it cannot be used to support the current mission. **(T-3)**. The MASO will thoroughly research shortages to locate missing items and determine the cause of shortages. **(T-3)**.

7.3.2.3. The MASO will establish controls to prevent recurrence and report. **(T-2)**. The MASO will promptly submit requisitions for replacement items to NSC. **(T-2)**.

7.3.2.4. The MASO will ensure saddlebags are retained and all items are inventoried for applicable weapons. **(T-3)**. He or she also will ensure a letter certifying the inventory is retained until the next saddlebag inventory certification is received. **(T-3)**. Submission of the SIR report certifies that this inventory has been accomplished. There is no additional requirement for reporting or recording the inventory of pullout cables and other accessory items. **Note:** Saddlebags with enclosed contents may be removed from weapons, inventoried and placed inside sealed container(s) (e.g., banded wooden crate) for long-term storage. Subsequent inventories will consist of verifying container content label and seal integrity.

7.3.3. The SIR requires a visual inventory of each TO 11N-100-3150 reportable item (including any trainers containing DOE SS nuclear materiel) by serial number. Prepare and submit as outlined in TO 11N-100-3150. **(T-0)**. The 576th Flight Test Squadron at Vandenberg AFB is required to accomplish a SIR when OMAs or other reportable items are assigned. **(T-2)**. When no reportable items are assigned, the 576th Flight Test Squadron will send a negative reply to the NCP and DTRA addresses in TO 11N-100-3150. **(T-2)**.

7.3.3.1. H1616/H1700 and other component shipping containers do not require opening for inventory purposes.

7.3.3.2. The MASO must ensure that warhead containers that are not sealed are opened to verify contents using guidelines in TO 11N-100-3150. **(T-0)**.

7.3.3.3. Warheads stored in containers previously opened, inspected, and sealed by the accountable organization do not require reopening during semiannual inventories provided information obtained from the exterior of the container and the seal/serial number list maintained by the MASO match.

7.3.3.3.1. If a conflict in the information on the exterior of the container and the seal/serial number listing is identified, open the container and verify contents.

7.3.3.3.2. When performing inventories, or as directed by TO 11N-100-3150, personnel will perform the following seal inspection procedures:

7.3.3.3.2.1. Visually inspect wire rope and locking device for signs of tampering. If tampering is detected, immediately notify MASO. **(T-0)**.

7.3.3.3.2.2. Firmly grasp seal and give a firm tug to ensure seal is firmly installed, if seal contains a wire rope ensure it is fully inserted and the locking device is properly functioning. If seal can be removed, notify MASO. **(T-0)**.

7.3.3.3.2.3. If tampering is detected or the seal can be removed, notify MASO. **(T-0)**.

7.3.3.3.2.4. During the inventory, if the container was sealed IAW procedures in **Chapter 6** and TO 11N-100-3150, record the warhead serial number stenciled on the container and the seal number(s) on the blind inventory worksheet. **(T-1)**. During inventory reconciliation, the MASO will compare the serial number of the containerized warheads and associated seals recorded on the blind inventory worksheet against the MASO's accountable documents. **(T-1)**.

7.3.3.3.2.5. In the event the seal/warhead serial number does not match accountable records or seals are not installed, or show signs of tampering, the container must be opened to physically verify warhead serial number. **(T-0)**.

7.3.3.4. In the event a container must be opened for any reason and if the etched, engraved or stamped permanent serial number cannot be verified without removing the warhead from the container, but a stenciled serial number is visible, compare this serial number with accountable records. **(T-0)**. If no markings are visible, the item must be removed from the container to verify serial number. **(T-0)**.

7.3.4. SIR Record Verification. After the blind inventory is complete, and prior to transmission of the SIR message, the MASO will verify serial numbers on the following documents. **(T-1)**:

7.3.4.1. Blind inventory worksheets (manual or electronic).

7.3.4.1.1. At the beginning of the inventory, the worksheet is blank except for column headings (e.g., serial number and any other information the MASO deems relevant). **(T-1)**.

7.3.4.1.2. As the inventory is conducted, information pertaining to the specific items found during the inventory is added to the worksheet as each item is visually verified. Adjustments to the blind inventory worksheet are not authorized after the visual verification has been accomplished. **(T-1)**.

7.3.4.1.3. Assign blind count-sheet page numbers (1 of 8, etc.). **(T-1)**.

7.3.4.1.4. Blind inventory sheets used during the SIR must be printed and signed by both the inventory and verifying officer. **(T-1)**.

7.3.4.2. Inventory count cards.

7.3.4.3. Printed copy of the SIR message.

7.3.4.4. Location Inventory Listing (as currently annotated by the NARS section).

7.3.4.5. Balances on Stock Records.

7.3.5. The MASO will ensure the SIR and an Inventory Verification Certificate as outlined in TO 11N-100-3150 are prepared and submitted. **(T-0)**.

7.3.6. The MASO will validate all reports for errors and submit corrections as needed. **(T-0)**. Both inventory and verifying officer will review and sign the SIR message prior to transmission. **(T-0)**.

7.3.7. SIR Reconciliation. After the SIR is transmitted, DTRA reconciles each unit's SIR report against the DIAMONDS database. If SIR errors exist, DTRA notifies the NCP who, in turn, notifies the applicable MAJCOM as required. The unit will resolve the discrepancy and submit a corrected report IAW TO 11N-100-3150. **(T-0)**. If no errors exist, or once any errors have been corrected, DTRA transmits a SIR reconciliation message. This message confirms to the unit and the applicable MAJCOM that the unit's records agree with the DIAMONDS database as of the SIR date.

7.3.7.1. Units will maintain the following according to **Table 7.1** and the AF RDS in AFRIMS **(T-1)**:

7.3.7.1.1. Certificate of Inventory.

7.3.7.1.2. Inventory and Verifying Officer appointment letter.

7.3.7.1.3. Special Orders for Verifying Officer.

7.3.7.1.4. SIR message and corrections.

7.3.7.1.5. DTRA reconciliation messages.

7.3.7.1.6. Saddlebag inventory letter.

7.3.7.1.7. Certificate of audit.

7.3.7.1.8. Blind inventory worksheets (TO 11N-100-3150 items).

7.3.7.1.9. AF Forms 85A, Inventory Count Card.

7.3.7.1.10. Audit checklist (**Table 7.2** of this Instruction).

7.3.7.1.11. Verifying officer training.

7.3.7.1.12. Signed Custody Account Spare SE Listing.

7.3.8. MASO and custodians will inventory other (non-TO 11N-100-3150 reportable) items listed in **paragraph 7.2.4**, using the same procedures above (minus blind inventories) except **(T-1)**:

7.3.8.1. Designated NARS monitors may conduct the inventory and a verifying officer is not required. **(T-2)**.

7.3.8.2. The Reparable Item Custodian or alternate accompanies NARS personnel during inventory of items on the custodian's sub-account. **(T-2)**.

7.3.8.3. Do not open properly packaged and tagged items unless required to resolve inventory discrepancies. **(T-2)**.

7.3.8.4. Non-TO 11N-100-3150 reportable items are not included on the SIR message.

7.3.8.5. WR container and bolster inventories are reported on the CAR IAW TO 11N-100-4. **(T-0)**.

7.3.9. Custodian validation consists of signing a current DIAMONDS generated Spare SE Custody Listing. **(T-2)**.

7.3.10. The MASO will brief the wing, group and squadron commanders, within 30 days of receiving the DTRA SIR reconciliation, on the status of nuclear weapons reporting activities for the previous six months. The verifying/audit officer must be present for the briefing. **(T-3)**. The MASO must cover the following items in the briefing: **(T-3)**.

7.3.10.1. Results of the most recent SIR. Include results of the DTRA reconciliation and any discrepancies discovered during the inventory. Highlight discrepancies identified during the verifying officer's audit of the account. Provide copies of SIR package for review.

7.3.10.2. Highlight NUREP discrepancies and the actions taken to prevent recurrence.

7.3.10.3. Custody Transfer Procedures. Highlight any negative trend in the accuracy of AF Form 504.

7.4. Change of MASO Inventory Procedures.

7.4.1. The gaining and losing MASOs will conduct a joint 100% inventory as of the effective date of the transfer of accountability. **(T-0)**. The MASOs will complete a Certificate of Transfer of Accountability IAW TO 11N-100-4. **(T-0)**. The MASOs will include both Base Document Register and Requisition and Shipping Document Register numbers on the certificate. **(T-0)**.

7.4.1.1. Semiannual inventories may also be used to suffice for the requirement for a change of MASO provided both gaining and losing MASOs participate in the inventory along with the verifying/audit officer.

7.4.1.2. No transactions affecting stock record balances occur between the effective date of the inventory and the effective date of the transfer of accountability.

7.4.2. For inventories that are not conducted in conjunction with a SIR, the MASOs will use the same procedures as a semi-annual inventory except **(T-0)**:

7.4.2.1. Do not appoint a verifying/audit officer. The gaining MASO is the inventory officer and the losing MASO is the verifying officer.

7.4.2.2. Do not submit a SIR, and do not prepare an Inventory Verification Certificate.

7.5. Special Inventories.

7.5.1. SEV. The SEV is a rapid inventory to verify all or selected portions of the stockpile of nuclear weapons in the possession of authorized agents. Prepare and submit reports as outlined in TO 11N-100-3150. **(T-0)**. SLAs and DTRA reconcile SEV reports from responsible organizations and provide SEV status reports to the Joint Staff according to TO 11N-100-3150 until the SEV is terminated. **Note:** MASOs must open containerized weapons within the scope of the SEV to verify contents regardless of whether or not they were previously sealed by the unit. **(T-0)**.

7.6. Monthly Spot Check Inventories. This inventory does not apply to TO 11N-100-3150 reportable items. Each month (except for SIR months) units will select for inventory at least 10% of the part numbers with current balances on the account. **(T-3)**. The MASO will inventory by quantity and location, and reconcile against account stock records for those part numbers. **(T-3)**. The MASO will resolve any discrepancies and report any irresolvable discrepancies to the squadron commander to initiate a Report of Survey or other appropriate action. **(T-3)**. The MASO will ensure monthly spot-check inventories are posted in DIAMONDS. **(T-2)**.

7.7. Inventory Documentation. Note: For trainers containing DOE SS nuclear material, MASO must inventory during the SIR for TO 11N-100-3150 reporting purposes only. **(T-0)**.

7.7.1. Inventory Count Cards.

7.7.1.1. The MASO will prepare DIAMONDS generated inventory count cards for TO 11N-100-3150 reportable items. **(T-2)**. The MASO will not prepare Inventory Count Cards for items on custody accounts of Repairable Item Custodians or items on the USAL **(T-3)**; Custody Validation Listings are used for Repairable Item Custodian Inventories.

7.7.1.1.1. For monthly spot check inventories, the MASO will update inventory dates for each part number IAW TO 11N-3150-8-1 **(T-0)**. The MASO will prepare a separate card for serviceable and unserviceable items of the same part number. **(T-2)**. If the information on any card is classified, then the MASO will classify the card IAW the applicable classification guide. **(T-0)**. The MASO will not include nomenclature if doing so would classify the form. **(T-3)**. The MASO will prepare the card as follows **(T-0)**:

7.7.1.1.2. Print DIAMONDS generated inventory count cards IAW 11N-3150-8-1. **(T-0)**.

7.7.1.1.3. Perform inventory and record total count in the "Actual Count Balance" block. **(T-2)**.

7.7.1.1.4. The MASO must initial and date the "Count By" block. **(T-2)**.

7.7.1.1.4.1. The gaining MASO will initial the "Count by" block, if a DIAMONDS-generated inventory count card is prepared for a change of MASO and not performed in conjunction with a SIR. **(T-2)**.

7.7.1.1.4.2. For a change of MASO performed in conjunction with a SIR, both MASOs will initial the "Count By" block. **(T-2)**.

7.7.1.1.5. The Verifying Officer will initial and date the "Checked By" block. **(T-2)**.

7.7.1.1.5.1. If preparing DIAMONDS-generated inventory count cards for a change of MASO not performed in conjunction with a SIR, the losing MASO will initial the "Checked By" block. **(T-2)**.

7.7.1.1.6. Current MASO or NARS personnel will post the final inventory to DIAMONDS IAW 11N-3150-8-1 and initial and date the "Posted By" block. **(T-2)**.

7.7.1.2. The MASO will maintain cards IAW [paragraph 7.3.7.1](#) of this Instruction if conducted in conjunction with a SIR. **(T-2)**.

Table 7.1. Inventory Documentation Requirements.

Actions Required	SIR	MASO Change	Monthly 10% Inventory
Blind inventory worksheets	X	X	
Verified and initialed inventory count cards	X	X	
Appointment letter for inventory verifying officer	X		
Appointment orders for the Inventory Verifying Officer to audit the account	X		
SIR message and Certificate of Inventory prepared IAW TO 11N-100-3150	X		
Saddle bag inventory letter, if applicable	X		
Audit Certificate	X		
SIR Reconciliation Message	X		
Spare SE Custody Listing	X	X	
MFR/Local Document			X

7.8. Accounting for Lost, Damaged or Destroyed Property.

7.8.1. The MXG/CC will ensure all discrepancies in stocks are investigated and draw up the necessary inventory adjustment documents. **(T-1)**. The MXG/CC under whom the FK account is organizationally assigned is the approving official for inventory adjustment vouchers. The MXG/CC will ensure all inventory adjustments are supported by one or more of the following. **(T-1)**:

7.8.1.1. DD Form 200, *Financial Liability Investigation of Property Loss*.

7.8.1.2. DD Form 114, *Military Pay Order*.

7.8.1.3. DD Form 362, *Statement of Charges/Cash Collection Voucher*.

7.8.1.4. DD Form 1131, *Cash Collection Voucher*.

7.8.1.5. DD Form 361, *Transportation Discrepancy Report*.

7.8.1.6. SF Form 364, *Report of Discrepancy*, or WebSDR equivalent.

7.8.1.7. An administrative letter from the unit commander allowing for relief from accountability without financial reimbursement.

7.8.1.8. A discrepancy investigation statement for warehouse discrepancies that do not merit a report of survey or a letter of explanation describing the discrepancy and correction action. This includes warehouse discrepancies causing posting or paperwork errors.

7.8.1.9. AF Form 1168, *Statement of Suspect/Witness/Complaint* (when loss is reportable IAW DoD 5100.76-M).

7.8.2. Before submitting an inventory adjustment document for approval, the MASO must research, identify, and correct, or initiate action to resolve the cause of the discrepancy. **(T-2)**.

7.8.3. The MASO will certify inventory adjustments and the MASO appointing authority will approve all adjustments requiring a Report of Survey for relief of accountability. **(T-2)**.

7.8.4. Officials certifying inventory adjustments will:

7.8.4.1. Certify no evidence of neglect, theft, or fraud exists. **(T-3)**.

7.8.4.2. Certify differences can be attributed to normal activity. **(T-3)**.

7.8.4.3. Certify no one violated property responsibility and general principles. **(T-3)**.

7.8.5. In giving approval to the inventory adjustment documents, the approving official will:

7.8.5.1. Signify awareness of discrepancies reflected by the inventory adjustment voucher that reflect adversely on the system involved. **(T-3)**.

7.8.5.2. Indicate the official acts to correct existing discrepancies and holds adjustment processing to a minimum. **(T-3)**.

7.8.5.3. Return the document to the initiator indicating unacceptable adjustments, with instructions to perform additional research. **(T-3)**.

7.8.5.4. Initiate a DD Form 200 if additional research does not satisfactorily explain the discrepancy. **(T-3)**.

7.8.6. Personnel will be liable for the full amount of any loss, damage or destruction to property caused by their negligence, willful misconduct or deliberate unauthorized use. **(T-3)**.

7.8.7. MASO and custodians will obtain relief from accountability for munitions assigned to a stock record account by processing Inventory Adjustment Vouchers (IAV). **(T-2)**. The MASO and custodians must provide supporting justification and documentation for IAVs, including inventory count sheets, transaction histories, research documents, and so on. **(T-2)**. However, MXG/CC must submit a report of survey to justify adjustments for negligence, willful misconduct, or when deliberate unauthorized use of NARS assets assigned to the account is suspected or the adjustment involves classified items. **(T-2)**. MXG/CC must report loss of a classified item to the Wing Information Protection Office and Wing Restricted Data Management Official if nuclear related. In addition to security incident report, a report of survey may be required. **(T-1)**.

7.8.8. The MXG/CC will ensure procedures outlined in AFMAN 23-220, *Reports of Survey for Air Force Property*, DoD 7000.14-R, *DoD Financial Management Regulation*, Volume 12, **Chapter 7**, *Financial Liability for Government Property Lost, Damaged, or Destroyed* and AFI 20-110, *Nuclear Weapons Related Materiel Management* and TO 11N-100-4 are followed as applicable. This includes a preparation of DD Form 200 or other authorized form for items lost, damaged, or destroyed. **Note:** This does not apply for items lost, damaged, or destroyed during authorized test or operation.

7.8.8.1. Forward one copy of the DD Form 200 for Military Spare classified items to the NCP. **(T-1)**. For DOE owned equipment items, Base Spares or other WR stockpile materiel, forward one copy to each of the following: NCP, DTRA/CSNOO, NNSA/NA-122.1. **(T-1)**.

7.8.8.2. Include in a Report of Survey covering the destruction or loss of an entire nuclear weapon or major assembly the applicable major assembly designator and serial number of each weapon involved. **(T-1)**. The MXG/CC will ensure, if SS nuclear material is involved, the report includes the nomenclature, part and serial numbers of the SS nuclear material or the next higher identifiable assembly. **(T-1)**.

7.8.9. Posting Inventory Adjustments. The MASO will use the adjustment (ADJ) transaction code to document adjustments required due to losses or gains of assets that cannot be accounted for through other transactions. **(T-1)**. The MASO will document the transaction using an AF Form 85A and report of survey or other documentation above, as appropriate. **(T-1)**. The MASO will assign a document number from the base register to control the transaction. **(T-1)**. The MASO will post the adjustment to DIAMONDS stock records using the "add-a-line" function for manual posting. **(T-1)**. The MASO will prepare AF Form 85A IAW TO 11N-3150-8-1. **(T-1)**.

7.9. Audits of Accounts. The term "audited" as it applies to these procedures denotes a formal quantitative audit of a specific account (i.e. SRAN) for verifying its records (see [paragraph 4.9](#) for a general discussion of audits and audit trails).

7.9.1. Types of Audits.

7.9.1.1. Semi-Annual Audit of Account (normally accomplished in conjunction with the SIR). Personnel designated on orders by the commander, perform this audit in conjunction with each semi-annual inventory. The audit ensures all TO 11N-100-3150 reportable nuclear weapons and components are accounted for, properly controlled, and signed for, when required, during the weapon custody transfer process, and provides a reasonable assurance that the accountable officer is following proper accounting procedures. The audit encompasses all accountable records listed in [paragraph 5.4](#). Conduct the audit IAW below procedures.

7.9.1.2. Special Audits. In addition to the semi-annual audit of account, the Air Force Audit Agency, higher headquarters, or a government agency, such as the Government Accounting Office, may direct a special audit. For special audits, the agency directing the audit determines its scope.

7.9.2. Appointing the Audit Officer. The wing commander will designate an audit/verifying officer in writing. **(T-1)**. The Wing Commander will make the appointment on special orders issued by the commander's order issuing authority. **(T-1)**. The Wing Commander will specify on the orders that the appointment is made on behalf of the MAJCOM commander IAW this AFI. **(T-1)**. A disinterested individual will not be designated as audit officer for two consecutive SIRs. **(T-1)**.

7.9.3. Briefing the Audit Officer. The MASO will brief the audit officer, who conducts the audit IAW procedures in this AFI, using as a guide the checklist in [Table 7.5](#) **(T-1)**. Prior to the start of the audit, NARS personnel will review the checklist with the audit officer, provide examples of documents to illustrate items shown in the checklist and answer any questions the audit officer may have concerning the requirements of the audit. **(T-1)**.

7.9.4. For procedures below, a representative sample is considered at least 20% of documents created since the last audit. If discrepancies are discovered, the audit officer should increase the sample size to determine if any errors are widespread or systemic in

nature. The audit officer should make recommendations for corrective action in the audit report.

7.9.5. Performing the Audit. The Audit Officer must:

7.9.5.1. Review the previous audit report. **(T-0)**. During the audit, place special emphasis on ensuring that all previously noted discrepancies were corrected.

7.9.5.2. MAR review will be conducted IAW [Table 7.2](#) **(T-0)**. **Note:** A MAR log is not required because it does not contain a unique identification number.

7.9.5.3. Review a representative sample of MARs and associated NUREPs created since the last audit. **(T-0)**. The Audit Officer will ensure all actions reported to the MASO that require NUREP reporting have been reported accurately and within prescribed timeframes. **(T-0)**. **Note:** If the unit discovered, or was notified of, NUREP reporting errors, these errors should not be considered as errors existing on the account at the time of the audit, provided correction NUREP reports were submitted within required timeframes.

7.9.5.4. Review both document registers and inventory all documents created since the last audit to ensure all documents are on file. **(T-0)**. For forced receipts, the Audit Officer will ensure the shipper's document number is cross-referenced in the "Remarks" column of the register. **(T-0)**. The Audit Officer will ensure all documents on file are either original documents or MASO-certified true copies of original documents. **(T-0)**. Identify to the audit officer which document register entries are applicable to this audit. **(T-0)**.

7.9.5.5. Review 100% of all shipping, receipt, issue and turn-in documents for TO 11N-100-3150 reportable items created since the last audit. **(T-0)**. The Audit Officer will verify the weapons serial number against the receiving data record and custody issue documents. **(T-0)**. The Audit Officer will ensure documents were properly prepared, only authorized personnel signed for the items on the documents, and that balance changes were properly posted to stock records. **(T-0)**. The Audit Officer will ensure associated weapon container and bolster part numbers and quantities are shown on weapon receipt and shipping documents and that the document number for the end item is used to post balance changes to container and bolster stock records. **(T-0)**. Identify to the audit officer which document register entries are applicable to this audit. **(T-0)**.

7.9.5.6. Review a representative sample of all other documents shown in either On Base or Off Base document registers. **(T-0)**. The Audit Officer will ensure documents were properly prepared, processed and posted to stock records. **(T-0)**. Identify to the audit officer which document register entries are applicable to this audit. **(T-0)**.

7.9.5.7. Review 100% of the custody transfer documents maintained by the MASO. **(T-0)**. For all weapon/warhead movements since the last audit, the Audit Officer will ensure the control numbers on the custody transfer documents are sequentially logged in on the custody transfer document control registers. **(T-0)**. The Audit Officer will ensure that only authorized personnel receipt for weapons/warheads using the procedures in [Chapter 8](#) of this AFI. **(T-0)**.

7.9.6. Audit Documentation. The Audit Officer will:

7.9.6.1. Upon completion, prepare a "Certificate of Audit" using the format in **Figure 7.1** as an example. **(T-1)**.

7.9.6.2. Attach to the certificate a copy of the completed checklist in **Table 7.2 (T-1)**.

7.9.6.3. Distribute a copy of the certificate of audit to the appointing authority, MASO and the applicable MAJCOM. Maintain the original IAW records management. **(T-1)**.

7.9.6.4. Maintain and dispose of audit documentation along with SIR documentation. **(T-1)**.

Figure 7.1. Sample Audit Certificate.

AUDIT CERTIFICATE

This is the report of the semiannual audit of FK or FV (SRAN) as prescribed in Chapter 6 of AFI 21-203. (Name of Appointed officer) was appointed to perform this audit on SO (special order number). The audit was performed (inclusive dates of audit).

The audit reviewed transactions from the last audit dated (end date of last audit) to current audit dated (end date of current audit). On-Base Document Number (document number) and Off-Base Document Number (document number) and Off-Base Document Number (document number) were the last document numbers audited.

Specific Discrepancies: (List specific discrepancies by organization, if applicable).

Recommendations: (Make specific recommendations for each discrepancy).

Include a general paragraph statement as to the reliability of the audit trail.

Signature of the Appointed Officer

Table 7.2. Sample Checklist for Semi-annual Audit of Accounts by a Disinterested Officer.

ITEM	DESCRIPTION	YES	NO	N/A
1	PRE-AUDIT REQUIREMENTS			
1a	Have you been appointed on special orders by the commander?			
1b	Have you read this chapter related to auditor's responsibilities?			
1c	Have you been briefed by MASO or NARS personnel on all facets of the audit?			
1d	Do you understand responsibilities and the audit requirements?			
1e	Do you have any unanswered questions concerning the audit requirements?			
1f	Have you been briefed by the MASO which On/Off -base document numbers are to be included in this audit? On-base document number (START): _____ (STOP): _____ Off-base document number (START): _____ (STOP): _____			
2	REVIEW OF PREVIOUS AUDIT REPORT			
2a	Have you reviewed the previous audit report?			
2b	Have all previously noted discrepancies been corrected?			
3	REVIEW OF MARs/NUREPs			
3a	For MARs documenting custody transfers (IH or OH changes) of weapons by RS or pylon/launcher serial number, are corresponding nuclear weapon configuration records showing the configuration of the RS or pylon/launcher at the time of the transfer also on file?			
3b	Does a representative sample (~20%) of these MARs, nuclear weapon configuration records, and associated NUREPs indicate correct serial numbers were reported?			
3c	Does a review of a representative sample (~20%) of MARs and associated NUREPs (created since the last audit) indicate that actions requiring NUREP reporting are being reported accurately and within prescribed timeframes?			
3d	If the unit discovered, or was notified of, any NUREP errors, was a correctional report transmitted within prescribed timeframes?			
4	REVIEW OF DOCUMENT REGISTERS, DOCUMENTS, AND STOCK RECORDS			
4a	Does a review of both On and Off-Base document registers against documents on file indicate that all documents (created since last audit) are on file?			
4b	For forced receipts, is the shipper's document number cross-referenced in the "Remarks" column of the document register?			
4c	Are only original documents or MASO-certified true copies of original documents on file in document control?			
4d	Does a review of all shipping, receipt, issue and turn-in documents for TO 11N-100-3150 reportable items created since the last audit indicate:			
4d(1)	All serial numbers are correct and were reported correctly on MARs and NUREPs?			
4d(2)	Documents were properly prepared?			

4d(3)	Only authorized personnel signed for the items?			
4d(4)	Balance changes are accurately reflected in stock records?			
4e	Does review of a representative sample (~20%) of all other documents listed in both document registers indicate:			
4e(1)	Documents were properly prepared?			
4e(2)	Only authorized personnel signed for the items?			
4e(3)	Balance changes are accurately reflected in stock records?			
5	REVIEW OF CUSTODY RECORDS			
5a	Perform a (100%) review of Custody Transfer documents?			
5a(1)	Control numbers assigned are sequentially logged in the weapons custody document control registers?			
5a(2)	Only authorized individuals signed the documents?			

Chapter 8

NUCLEAR WEAPONS CUSTODY TRANSFER PROCEDURES

8.1. General Requirements.

8.1.1. Wing commanders designate units whose commanders may appoint individuals authorized to receive custody of nuclear weapons and nuclear warheads during operational movements (see sample letter in **Figure 8.1**) IAW **Chapter 8** of this Instruction. (T-1). Wing commanders will appoint PRP certified personnel to receipt for classified DOE end items, components and documents during logistics movements (sample in **Figure 2.1**). (T-0).

8.1.2. Unit commanders (Group or Squadron) will appoint individuals authorized to receive custody of nuclear weapons and nuclear warheads during operational movements (sample in **Figure 8.2**). (T-1). Appointed individuals must be U.S. Military (regular or reserve component) or DoD civilians certified on PRP, with an appropriate security clearance. (T-1). Air National Guard and Air Force Reserve members may be appointed, but are only permitted to accept custody when they are in Title 10 status. (T-1). In addition to appointment letters, the following methods may be used to appoint/verify individuals to receive custody of nuclear weapons during operational movements:

8.1.2.1. An AAAL may be used to identify personnel authorized to receive custody of nuclear weapons and nuclear warheads inside maintenance and storage areas.

8.1.2.2. A Missile Alert Duty Order (MADO) may be used to identify Missile Combat Crews (MCC) authorized to receive custody of RSs at launch facilities (LF) regardless of which Launch Control Center (LCC) an MCC is assigned and in lieu of an appointment letter specifically listing MCCs.

8.1.2.3. Individuals granted unescorted entry to ICBM LFs or LCCs through the Missile Entry Control System, are authorized recipients and will use a valid entry authentication using Missile Electronic Encryption Device. (T-3).

8.1.2.4. An open area on a line badge may be used to identify personnel inside maintenance, storage and flightline areas authorized to receive custody of nuclear weapons and nuclear warheads during operational movements.

8.1.2.5. As a minimum, units must issue appointment letters and AAAL that include name, grade (Officer or Enlisted), security clearance and PRP status. (T-2). The MASO will distribute applicable documentation to facilitate transfer of, movement of and access to nuclear weapons and nuclear components. (T-3).

8.1.2.6. Deploying units must send both their current signed wing commander's unit designation letter and a unit commander appointment letter to the wing commander, squadron commander, and MASO at the deployed location prior to their arrival. (T-2). These letters are used to ensure deployed personnel are authorized to receive custody of nuclear weapons during operational movements.

8.1.3. Continuous US custody of nuclear weapons is mandatory until receipt of a valid nuclear control order that permits transferring US nuclear weapons to non-US delivery forces.

8.2. Custody Transfer Procedures. If a custody transfer is necessary during an operational movement, the individual relinquishing custody of nuclear weapons and nuclear warheads will ensure the individual receiving custody is an authorized recipient prior to custody transfer. **(T-0)**. Individuals gaining custody will conduct visual serial number(s) against the source document (i.e., AF Form 504) except when not required in the situation specific procedures. **(T-1)**.

8.2.1. The custodian may temporarily depart the exclusion area; however, if the custodian departs the area permanently an authorized custodian will conduct visual serial number verification against the source document and sign the custody document. **(T-3)**.

8.2.2. Guard and Reserve personnel must know and validate their status prior to accepting custody. **(T-2)**. No additional procedures are required to independently verify statuses, but local custody transfer training should address guard and reserve status (as applicable).

8.3. Custody Transfer Documentation. The custodian must create AF Form 504, “*Weapons Custody Transfer Document*”, for movements identified in **paragraph 8.5**. **(T-1)**. AF Forms 504 are not required for logistics movements or authorized maintenance and handling functions remaining within maintenance, storage and vault storage areas, including between separate vaults. Upon completion of operational movements, the custodian must return signed copies of the AF Form 504 to the MASO. **(T-1)**. The MASO will maintain copy 1 for audit purposes; all others will be destroyed. **(T-1)**. The MASO or designated representative may authorize corrections to the AF Form 504. The MASO or designated representative will line through, initial the error and make a clear entry of the correct information. **(T-2)**. Pen and ink changes to block 2 of the AF Form 504 are not authorized unless otherwise indicated in this Instruction.

8.3.1. Sequence of custody transfer actions are presented in a logical flow. However, sequence may be modified as necessary to allow for unique situations as long as authorized custodians are always in possession of assets. Examples include, the MASO signing weapons over to bay chiefs at storage structures during generations when tow teams are delayed, the MASO signing weapons directly over to ICBM transport crews within maintenance facilities, etc.

8.4. Logistics movements.

8.4.1. The MASO will ensure a DD Form 1911, Materiel Courier Receipt, is used to transfer custody to or from Air Mobility Command aircrews or Office of Secure Transportation personnel. **(T-0)**.

8.4.2. For inbound shipments, the MASO will perform a visual verification as soon as practical to ensure the information on the DD Form 1911 matches the serial number of the assets being received. **(T-0)**.

8.4.3. For outbound shipments, the MASO will enter the structure or maintenance facility and perform a visual verification to ensure the information on the DD Form 1911 matches the serial number of the assets being shipped. **(T-0)**.

8.5. Operational Movements.

8.5.1. Transfer of Nuclear ICBM RS to LF. The MASO will prepare AF Form 504 IAW sample in [Figure 8.3](#) (T-1).

8.5.1.1. The MASO will verify the RS configuration using the Stockpile Location Planning Report (SLPR) and prepares two copies of the AF Form 504 (copy 1 is original, copy 2 is suspense) based on mission tasking, completes the “Transferred From” block 6, columns A through E on the forms, and gives the forms to the gaining MUNS custodian responsible for subsequently transferring custody. (T-1). The MASO will establish a control number for the document by annotating the control register using an AF Form 3126. (T-1). The MASO will annotate the control number in block 1 and RS serial number in block 4 of the AF Form 504. (T-1). In the event the current AF Form 504 becomes lost or illegible, the MASO will verify information and use copy 2 as the current AF Form 504. (T-1).

8.5.1.2. The MUNS custodian will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS being transferred. (T-2). The MUNS custodian will complete the first “Transferred To” block 6, columns A through E on the forms. (T-2).

8.5.1.3. The transfer/transport custodian and MUNS custodian will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. (T-2). The transfer/transport custodian completes the next “Transferred To” block 6, columns A through E on both AF Forms 504 (copies 1 and 2) and validates the RS system serial number off their IMDS work order or other source document. (T-2). The transfer/transport custodian will provide copy 2 (suspense) to the MUNS custodian. (T-2). The MUNS custodian will provide the suspense copy to the MASO. (T-2). The transfer/transport team transports the RS to the applicable LF.

8.5.1.4. Prior to lowering RS onto the missile, the transfer/transport custodian and mate TC will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. (T-2). The mate TC will complete the next “Transferred To” block 6, columns A through E on the form. (T-2).

8.5.1.5. Upon completion of RS mate, the mate TC will contact the MCC and enter the Missile Combat Crew Commander (MCCC) or Deputy Missile Combat Crew Commander (DMCCC) name, position, organization, time/date, and location on the AF Form 504. (T-2).

8.5.1.6. The mate TC will return the completed original AF Form 504 (copy 1) to the Missile Maintenance Operations Center (MMOC). (T-2).

8.5.1.7. The MMOC will provide the original AF Form 504 to the MASO not later than the next duty day. (T-2). Upon receipt, the MASO will place the original AF Form 504 in the active file and destroy the suspense AF Form 504 (copy 2). (T-2).

8.5.1.8. NARS will prepare a MAR IAW TO 11N-3150-8-1 to reflect appropriate status of the weapons and forward it to the MASO ([paragraph 9.1.1](#)). (T-0).

8.5.2. Transfer of Nuclear ICBM RS between LFs. The MASO will prepare AF Form 504 in accordance with sample in [Figure 8.4](#). **(T-1)**.

8.5.2.1. The MASO will prepare two copies of the AF Form 504 (copy 1 is original, copy 2 is suspense) based on mission tasking. **(T-2)**. The MASO will establish a control number for the document by annotating the control register using an AF Form 3126. **(T-2)**. MASO will annotate the control number in block 1 and RS serial number in block 4 of the AF Form 504. **(T-2)**. The MASO will provide the original AF Form 504 (copy 1) to the demate or transport TC. **(T-2)**. In the event the current AF Form 504 becomes lost or illegible, the MASO will verify information and use copy 2 as the current AF Form 504. **(T-2)**.

8.5.2.2. Upon demate, the demate TC contacts the MCC and enters the MCCC or DMCCC information in the “Transferred From” block 6, columns A through E on the AF Form 504. **(T-2)**. The demate TC performs a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. **(T-2)**. The demate TC completes the “Transferred To” block 6, columns A through E, on the form. **(T-2)**.

8.5.2.3. Prior to departure, the transfer/transport custodian will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. **(T-2)**. The transfer/transport custodian will complete the next “Transferred To” block 6, columns A through E, on the form. **(T-2)**.

8.5.2.4. Prior to lowering the RS onto the missile, the transfer/transport custodian and the mate TC will perform visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. **(T-2)**. The mate TC will complete the next “Transferred To” block 6, columns A through E on the form. **(T-2)**.

8.5.2.5. On completion of RS mate, the mate TC will contact the MCC and enter the MCCC or DMCCC in the next “Transferred To” block 6, columns A through E on the form. **(T-2)**.

8.5.2.6. The mate TC will return the completed original AF Form 504 (copy 1) to the MMOC. **(T-2)**.

8.5.2.7. The MMOC will provide the AF Form 504 to the MASO not later than the next duty day. **(T-2)**. Upon receipt, the MASO will place the original AF Form 504 in the active file and destroy suspense AF Form 504 (copy 2). **(T-2)**.

8.5.2.8. NARS will prepare a MAR (IAW TO 11N-3150-8-1) to reflect appropriate status of the weapons and forward it to the MASO ([paragraph 9.1.1](#)). **(T-0)**.

8.5.3. Transfer of Nuclear ICBM RS from LF. The MASO will prepare AF Form 504 IAW the sample in [Figure 8.5](#) **(T-1)**.

8.5.3.1. The MASO will prepare two copies of the AF Form 504 (copy 1 is original and copy 2 is suspense), and establishes a control number for the document by annotating the control register using an AF Form 3126. **(T-2)**. The MASO annotates the control number in block 1 and RS serial number in block 4 of the AF Form 504. **(T-2)**. The MASO will give the AF Form 504 (copy 1) to the demate team chief. **(T-2)**. In the event

the current AF Form 504 becomes lost or illegible, the MASO will verify information and use copy 2 as the current AF Form 504. **(T-2)**.

8.5.3.2. Upon demate, the demate TC will contact the MCC and enters the MCCC or DMCCC information in the “Transferred From” block 6, columns A through E on the AF Form 504. **(T-2)**. The demate TC will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. **(T-2)**. The demate TC will complete the “Transferred To” block 6, columns A through E, on the form. **(T-2)**.

8.5.3.3. Prior to departure, the transfer/transport custodian will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. **(T-2)**. The transfer/transport custodian will complete the next “Transferred To” block 6, columns A through E, on the form. **(T-2)**.

8.5.3.4. Upon arrival at the maintenance facility, the gaining MUNS custodian will perform a visual verification to ensure the information on the AF Form 504 matches the serial number of the RS. **(T-2)**. The gaining MUNS custodian will complete the next “Transferred To” block 6, columns A through E on the form. **(T-2)**. The MASO will ensure the information on the AF Form 504 matches the serial number of the RS and completes the next “Transferred To” block 6, columns A through E on the form. **(T-2)**.

8.5.3.5. The MASO places the original AF Form 504 in the active file and destroys suspense AF Form 504 (copy 2). **(T-2)**.

8.5.3.6. NARS will prepare a MAR IAW TO 11N-3150-8-1 to reflect appropriate status of the weapons and forward it to the MASO ([paragraph 9.1.1](#)). **(T-0)**.

8.5.4. **(CONUS)** Custody transfer of nuclear weapons or nuclear warheads for upload to combat aircraft. For nuclear weapons or nuclear warheads going to and from combat aircraft, NARS will prepare an AF Form 504 IAW the sample in [Figure 8.6](#) **(T-1)**.

8.5.4.1. MASO will verify the pylon or launcher configuration using both the SLPR and certified configuration record and prepares and issues an AF Form 504 in three copies for the weapon movement based on mission tasking. **(T-2)**. MASO will establish control of the document by annotating the control register using an AF Form 3126 or similar control register. **(T-2)**. The MASO will annotate the control number in block 1, warhead or bomb serial numbers in block 2, and pylon or launcher serial number in block 4 of the AF Form 504. **(T-2)**. In the event the current AF Form 504 becomes lost or illegible, the MASO will verify information and use copy 3 as the current AF Form 504. **(T-2)**.

8.5.4.2. The MASO and gaining MUNS custodian conducts a visual verification of the pylon(s) or launcher(s) to ensure information matches the AF Form 504 matches the serial numbers of the pylon(s) or launcher(s). **(T-2)**. The MASO completes the “Transferred From”, block 6, columns A through E. The gaining MUNS custodian completes the next “Transferred To” block 6, columns A through E. **(T-2)**. The gaining custodian forwards copy 3 to the MASO who in-turn files copy 3 in the suspense file. **(T-2)**. Subsequent custody transfers between MUNS custodians are accomplished by visually verifying the AF Form 504 matches the serial number of the pylon(s) and launcher(s). **(T-2)**. The gaining MUNS custodian completes the next “Transferred To” block 6, columns A through E. **(T-2)**.

8.5.4.3. Upon delivery to the flight line, the MUNS custodian will mark the aircraft tail number in block 5 of the AF Form 504, and gives copies 1 and 2 of the AF Form 504 to the gaining Aircraft Maintenance Squadron (AMXS) custodian. **(T-2)**.

8.5.4.4. The gaining AMXS custodian must accept custody from the MUNS custodian upon delivery to the flight line. **(T-2)**. The gaining AMXS custodian will conduct a visual verification to ensure information on the AF Form 504 matches the serial number(s) of the pylon(s), launcher(s), aircraft tail number, and completes the next "Transferred To" block 6, columns A through E. **(T-2)**. The gaining AMXS custodian will annotate the AF Form 504 control number and a serial number verification statement in the AFTO 781A series forms. **(T-2)**. Prior to loading, the load crew chief will verify the serial number of the pylon(s), launcher(s), and aircraft tail number against the AF Form 504 to ensure they are loading the correct pylon(s) and/or launcher(s). **(T-2)**. Annotation on the AF Form 504 or AFTO 781A is not required. Subsequent custody transfers between AMXS custodians will be accomplished by visually verifying the AF Form 504 matches the serial number(s) of the pylon(s), launcher(s) and aircraft tail number. **(T-2)**. AMXS custodians will also visually verify single missiles/bombs, if present. **(T-2)**. The gaining AMXS custodian will complete the next "Transferred To" block 6, columns A through E. **(T-2)**.

8.5.4.5. In the event there is a requirement to transfer a pylon and/or a launcher from combat aircraft to combat aircraft, the applicable AMXS custodian will line out the old aircraft tail number in block 5, and marks the new aircraft tail number in block 5 of the AF Form 504. **(T-2)**. If custody is transferred to a MUNS custodian, the MUNS custodian will obtain copy 1 of the AF Form 504 from the AMXS custodian and conduct a visual verification to ensure information on the AF Form 504 matches the serial number of the pylon and/or launcher being transferred and completes the next "Transferred To" block 6, columns A through E. **(T-2)**. Once the pylon/launcher is in the new location, refer to [paragraph 8.5.4.4](#). to continue loading operations.

8.5.4.6. In the event there is a requirement to swap a single missile/bomb loaded on a combat aircraft, the MASO will use the original AF Form 504 as the controlling document and prepare a new AF Form 504 for the warhead or bomb going to the pylon, launcher or loaded combat aircraft and another separate AF Form 504 for the warhead or bomb being removed. **(T-2)**. The MASO will ensure both forms contain standard entries, with different control numbers and appropriate warhead or bomb serial number. **(T-2)**. The MASO will reference the original control number in block 1 of the AF Form 504 being held in suspense on each AF Form 504 prepared for the swap. **(T-2)**.

8.5.4.6.1. Use the procedures in [paragraph 8.5.4.2](#). through [8.5.4.4](#) for transporting to and uploading weapons on combat aircraft. When transporting and handling single bombs or missiles, the warhead/bomb serial number will be verified. **(T-2)**. Once the loading operations are complete, the AMXS custodian will line out the removed warhead or bomb serial number and initial the original AF Form 504 (copy 1). **(T-2)**. The AMXS custodian will attach new warhead(s) or bomb(s) AF Form 504 to the original AF Form 504. **(T-2)**. The AMXS custodian will use the custody transfer procedures in [paragraph 8.5.7](#). for downloading and transporting weapons from combat aircraft. **(T-2)**.

- 8.5.4.6.2. MASO cross-references the applicable AF Forms 504 to the original and post changes to the suspense copies to reflect status. **(T-2)**. File the AF Form 504 with the original upload suspense paperwork until the weapon(s) or weapons package is downloaded, returned and recertified. **(T-2)**.
- 8.5.4.7. Upon aircraft upload, the wing weapons officer or qualified aircrew member will obtain copies 1 and 2 of the AF Form 504 from the AMXS custodian and conduct a visual verification to ensure information on the AF Form 504 matches the serial number(s) of the pylon(s), launcher(s) and aircraft tail number. **(T-2)**. The wing weapons officer annotation on the AF Form 504 is not required. **(T-2)**. The wing weapons officer or qualified aircrew member will annotate the AF Form 504 control number and a serial number verification statement in the AFTO 781A series forms. **(T-2)**.
- 8.5.4.8. Upon arrival of the aircrew, an aircrew member will obtain copies 1 and 2 of the AF Form 504 and conduct a visual verification to ensure information on the AF Form 504 matches the serial number(s) of the pylon(s), launcher(s) and aircraft tail number. **(T-2)**. The aircrew member will ensure the AFTO 781A series forms have been properly annotated with the AF Form 504 control number and serial number verification statement. **(T-2)**. Aircrew member will complete the next "Transferred To" block 6, columns A through E, on the AF Form 504. **(T-2)**. Copy 1 of the AF Form 504 is placed with the AFTO 781A series forms and the aircrew will retain the document with the loaded aircraft until weapon(s) is/are downloaded. **(T-2)**.
- 8.5.4.9. Upon notification that the aircraft has been placed on alert, the AF Form 504 process is suspended. **(T-2)**. AF Form 504 process remains suspended during aircrew changeover and during maintenance that requires taking aircraft temporarily off alert but does not involve download or swap of weapons. **(T-2)**. Visual verification and annotation of the AF Form 504 are not required. **(T-2)**.
- 8.5.5. **(CONUS)** Relocating, deploying, or dispersing combat aircraft loaded with nuclear weapons or nuclear warheads.
- 8.5.5.1. If nuclear weapons loaded aircraft are deployed or dispersed, the munitions function will prepare a MAR showing an in-hand shipment to the deployed or dispersed location and forward it to the MASO. **(T-2)**. See appropriate security classification guides and OPLANS for classification guidance when preparing these forms.
- 8.5.5.2. Accounting for weapons during Bomber Strategic Aircraft Reconstitution Team (BSART) operations. The munitions function will ensure deployed BSART teams have the capability to submit reports IAW TO 11N-100-3150. **(T-2)**. Reports may be submitted using any available means. The munitions function will conduct custody transfer to/from combat aircraft at a deployed BSART location using the same procedures as at the home station. **(T-2)**.
- 8.5.5.3. If an aircraft lands at a deployed or dispersed location and the load configuration has changed, the aircrew will annotate configuration changes on copy 1 of the AF Form 504 and notify the MASO. **(T-2)**.

8.5.5.4. If missile(s) or bomb(s) must be swapped from aircraft to aircraft at a deployed or dispersed location, the applicable custodian will annotate configuration changes on copy 1 of the AF Form 504. **(T-2)**.

8.5.5.5. If deployed or dispersed aircraft are returned to home station, ascertain from the aircraft commander whether any changes to the aircraft load configuration occurred while it was away from home station. If so, the MASO must verify the new configuration. **(T-2)**. The munitions function will prepare a MAR showing appropriate status of weapons and forward to the MASO ([paragraph 9.1.1](#)). **(T-2)**.

8.5.6. Accounting for weapons loaded in support of Forward Located Alert Generation (FLAG) operations.

8.5.6.1. The wing responsible for storing these weapons is the reporting unit. When weapons are in storage units will report them as “on-hand” using the Unit Identification Code (UIC) of the unit storing the weapons. **(T-2)**. Weapons will remain in the storing units OUIIC when reporting “in-hand” regardless of aircraft ownership.

8.5.7. **(CONUS)** Downloading and transporting weapons from combat aircraft.

8.5.7.1. The gaining AMXS custodian will obtain copy 1 of the AF Form 504 and conduct a visual verification to ensure information on the AF Form 504 matches the serial number of the pylon(s), launcher(s), aircraft tail number, and completes the next “Transferred To” block 6, columns A through E. **(T-2)**. Subsequent custody transfers between AMXS custodians will be accomplished by visually verifying the AF Form 504 matches the serial number(s) of pylon(s), launcher(s) and aircraft tail number. **(T-2)**. The gaining AMXS custodian will complete the next “Transferred To” block 6, columns A through E. **(T-2)**.

8.5.7.2. Upon arrival at the flight line, the MUNS custodian will obtain copy 1 of the AF Form 504 from the AMXS custodian and conduct a visual verification to ensure information on the AF Form 504 matches the serial number(s) of pylon(s), launcher(s), and complete the next “Transferred To” block 6, columns A through E. **(T-2)**. The MUNS custodian will keep copy 1 of the AF Form 504. **(T-2)**. Subsequent custody transfers between MUNS custodians will be accomplished by visually verifying the AF Form 504 matches the serial number(s) of the pylon(s) and launcher(s). **(T-2)**. The gaining MUNS custodian will complete the next “Transferred To” block 6, columns A through E. **(T-2)**.

8.5.7.3. Upon delivery to the structure/maintenance facility in the storage area, the MASO will obtain copy 1 of the AF Form 504 and conduct a visual verification to ensure information on the AF Form 504 matches the serial number of the pylon or and launcher.

8.5.8. **(OCONUS)** Transferring and uploading weapons to U.S. aircraft.

8.5.8.1. The MASO will prepare and issue an AF Form 504 in three copies for the weapon transfer based on mission tasking. **(T-2)**. The MASO will establish a control number for the document by annotating the control register using an AF Form 3126 for each AF Form 504. **(T-2)**. The MASO will annotate the control number in block 1 and weapon serial number in block 2 of the AF Form 504. Blocks 3 and 4 are marked N/A. **(T-2)**. Munitions Control will be given Copy 3 for tracking purposes. **(T-2)**. In the event

the current AF Form 504 becomes lost or illegible, the MASO will verify information and use copy 3 as the current AF Form 504. **(T-2)**.

8.5.8.2. Prior to weapons transfer from the vault, the MASO and gaining custodian will verify the information on copy 1 and 2 of the AF Form 504 matches the serial number of the weapon in storage. **(T-2)**. The MASO will complete the first "Transferred From" block 6, columns A through E on both copies. **(T-2)**. The gaining custodian will complete the next "Transferred To" block 6, columns A through E on both copies. **(T-2)**.

8.5.8.3. Prior to uploading the weapon, the custodian will verify the information on copy 1 and 2 with the loading crew chief. **(T-2)**. The loading crew chief will sign the first "Transferred To" block 6, columns A through E on copies 1 and 2. **(T-2)**.

8.5.8.4. Upon upload of the weapon, the loading crew chief will annotate the aircraft tail number in block 5 of both copies of the AF Form 504 and notifies munitions control to annotate the tail number on copy 3 in suspense. **(T-2)**.

8.5.8.5. Upon aircrew arrival, loading crew chief will give both copies to the aircrew, who will conduct a visual verification to ensure the information on the AF Form 504 matches the weapon serial number and aircraft tail number, and accepts custody by completing the next "Transferred To" block 6, columns A through E of both forms. **(T-2)**. The Loading Chief will provide copy 1 to the loaded aircraft until the weapon is downloaded. **(T-2)**. Weapons expediter will ensure copy 2 of the AF Forms 504 is returned to the MASO. **(T-2)**. Additional blank AF Forms 504s may be used as continuation sheets. Upon notification that the aircraft has been placed on alert, the AF Form 504 process is suspended.

8.5.8.6. For weapon swaps, MASO will post changes and cross-references the applicable AF Form 504 to the original. **(T-2)**.

8.5.9. **(OCONUS)** Downloading and Transferring weapons from U.S. Aircraft.

8.5.9.1. Prior to beginning the download, the loading crew chief will obtain copy 1 of the AF Form 504 and conduct a visual verification to ensure information on the form matches the serial number of the weapon and aircraft tail number, and accept custody by completing the next "Transferred To" block 6, columns A through E. **(T-2)**. The load monitor will transfer custody using procedures for the rest of the download that are the reverse of weapon upload. **(T-2)**. The load monitor will transfer custody to authorized individuals as necessary until weapon is placed in the weapon storage vault. **(T-2)**. The MASO (or designated representative) must regain custody prior to closing and locking the vault. **(T-2)**.

8.5.10. **(OCONUS)** Transferring and Uploading weapons to Non-US Aircraft.

8.5.10.1. The MASO will prepare and issue an AF Form 504 in three copies for the weapon transfer based on mission tasking. **(T-2)**. The MASO will establish a control number for the document by annotating the control register using an AF Form 3126 for each AF Form 504. **(T-2)**. The MASO will annotate the control number in block 1 and weapon serial number in block 2 of the AF Form 504. **(T-2)**. The MASO will mark blocks 3 and 4 N/A. **(T-2)**. The MASO will give copy 3 to Munitions Control for tracking purposes. **(T-2)**. In the event the current AF Form 504 becomes lost or

illegible, the MASO will verify information and use copy 3 as the current AF Form 504. **(T-2)**.

8.5.10.2. Prior to weapons transfer from the vault, the MASO and gaining custodian will verify the information on copy 1 and 2 of the AF Form 504 matches the serial number of the weapon in storage. **(T-2)**. The MASO will complete the first “Transferred From” block 6, columns A through E on both copies. **(T-2)**. The gaining custodian will complete the next “Transferred To” block 6, columns A through E on both copies. **(T-2)**.

8.5.10.3. Prior to uploading the weapon, the load monitor will accept custody by verifying the information on copy 1 and 2 of the AF Form 504 matches the serial number of the weapon in storage and completes the first “Transferred To” block 6, columns A through E on both copies. **(T-2)**. After upload of the weapon, the load monitor will annotate the aircraft tail number in block 5 on both copies of the AF Form 504 and copy 1 will remain with the loaded aircraft until the weapon is downloaded. **(T-2)**. The load monitor will notify munitions control to annotate the aircraft tail number in block 5 on copy 3 of the AF Form 504 held in suspense. **(T-2)**. The Load Monitor will return Copy 2 to the MASO. **(T-2)**.

8.5.10.4. Upon notification that the aircraft has been placed on alert, the AF Form 504 process is suspended.

8.5.10.5. For weapon swaps, the MASO must post changes and cross-reference the applicable AF Forms 504 to the originals. **(T-2)**.

8.5.10.6. Upon successful release, the MASO will annotate “Weapon properly released to host nation aircrew IAW EAM DTG # XX XXXX XXX XX” in the next “Transferred To” block of copy 2 of the AF Form 504. **(T-2)**. The MASO keeps this copy in active suspense until the weapon is expended or returned to storage. Weapons Maintenance will prepare a MAR to reflect appropriate status of the weapons and forward it to the MASO ([paragraph 9.1.1](#)). **(T-2)**.

8.5.11. **(OCONUS)** Downloading and Transferring weapons from Non-US Aircraft. Downloading and returning weapons to the vault is the reverse of the upload procedure. Prior to downloading, the load monitor will obtain copy 1 of the AF Form 504 and verify the information on the AF Form 504 matches the serial number of the weapon and aircraft tail number, and complete the first “Transferred To” block 6, columns A through E. **(T-2)**. The load monitor will transfer custody using procedures for the rest of the download that are the reverse of weapon upload. **(T-2)**. The load monitor will transfer custody to authorized individuals as necessary until weapon is returned to the weapon storage vault. **(T-2)**. The MASO must regain custody prior to closing and locking the vault. **(T-2)**.

Figure 8.1. Sample Designation of Positions Authorized to Accept Custody of Nuclear Weapons

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 42D BOMB WING (AFGSC)
LORING AIR FORCE BASE, MAINE

27 Oct 15

MEMORANDUM FOR 42 MUNS/MXWK (MASO)

FROM: 42 BW/CC

Texas Road

Loring AFB ME 04751-5000

SUBJECT: Unit Commanders Authorized to Appoint Individuals Authorized to Receive Custody of Nuclear Weapons

1. The commanders of following units are authorized to appoint individuals authorized to accept custody of nuclear weapons IAW AFI 21-203:

69 BS

42 AMXS

42 MUNS

42 MXS

2. This letter supersedes all previous letters, same subject.

JOHN C. KUBINEC, Colonel, USAF
Commander, 42d Bomb Wing

Figure 8.2. Sample Designation of Individuals Authorized to Accept Custody of Nuclear Weapons.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 42D BOMB WING (AFGSC)
LORING AIR FORCE BASE, MAINE

27 Oct 15

MEMORANDUM FOR 42 MUNS/MXWK (MASO)

FROM: 42 AMXS/CC

Texas Road

Loring AFB ME 04751-5000

SUBJECT: Designation of Individuals Authorized to Accept Custody of Nuclear Weapons

1. The following individuals are authorized to sign and receipt for nuclear weapons IAW AFI 21-203:

NAMESECURITY CLEARANCEPRPGrade

Bushaw, Kevin E. Top Secret Formal ENL

Murphy, Jordan E. Top Secret Formal OFF

Anderson, Christopher P. Top Secret Formal OFF

Hanline, John V. Top Secret Interim ENL

2. Line-through deletions are authorized. This letter supersedes all previous letters, same subject.

GREGORY L. FISHER, Lt Col, USAF

Commander, 42d Aircraft Maintenance Squadron

Figure 8.3. Sample AF Form 504, Weapons Custody Transfer Document, ICBM RS to LF.

WEAPONS CUSTODY TRANSFER DOCUMENT				
1. Control Number	2. Warhead/Bomb/Reentry Vehicle Serial Number(s)	3. Missile Serial Number(s) (if applicable)	4. Reentry System/Pylon/Launcher Serial Number (if Applicable)	5. A/C Tail Number (if Applicable)
14-02	N/A	N/A	9952	N/A
6. CUSTODY STATEMENT: "I accept custodial responsibility for the items listed herein. I acknowledge that custodial responsibility referred to in this statement entails the custody, care, and safekeeping of these items and their components. Responsibility will be transferred when the signature of an authorized individual and appropriate date are entered on the next line following my signature below.				
CUSTODIAN A	POSITION B	ORGANIZATION C	TIME/DATE D	LOCATION E
TRANSFERRED FROM (Print and Sign) <i>Herman Baxter</i> HERMAN L. BAXTER	MASO	351 MUN8	0715 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>Thaddeus Koslik</i> THADDEUS U. KOSLIK	Munitions Team Chief	351 MUN8	0715 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>Michael Dawson</i> MICHAEL W. DAWSON	MMT Transfer/Transport Custodian	351 MMX8	0800 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>David Clark</i> DAVID L. CLARK	MMT Team Chief	351 MMX8	1100 20140203	B-05
TRANSFERRED TO (Print and Sign) <i>Phillip Boroff</i> PHILLIP M. BOROFF	MCCC	508 MS	1400 20140203	B-05
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				

Figure 8.4. Sample AF Form 504, Weapons Custody Transfer Document, ICBM RS between LFs.

WEAPONS CUSTODY TRANSFER DOCUMENT				
1. Control Number	2. Warhead/Bomb/Reentry Vehicle Serial Number(s)	3. Missile Serial Number(s) (if applicable)	4. Reentry System/Pylon/Launcher Serial Number (If Applicable)	5. A/C Tail Number (If Applicable)
14-02	N/A	N/A	9953	N/A
<p>6. CUSTODY STATEMENT: "I accept custodial responsibility for the items listed herein. I acknowledge that custodial responsibility referred to in this statement entails the custody, care, and safekeeping of these items and their components. Responsibility will be transferred when the signature of an authorized individual and appropriate date are entered on the next line following my signature below.</p>				
CUSTODIAN A	POSITION B	ORGANIZATION C	TIME/DATE D	LOCATION E
TRANSFERRED FROM (Print and Sign) <i>Jeffrey Braxton</i> JEFFREY G. BRAXTON	MCCC	742 MS	0715 20140203	O-05
TRANSFERRED TO (Print and Sign) <i>Jeffrey Clinton</i> JEFFREY W. CLINTON	MMT Team Chief	91 MMXS	0715 20140203	O-05
TRANSFERRED TO (Print and Sign) <i>Andrew Gregorsok</i> ANDREW P. GREGORSOK	MMT Transfer/Transport Custodian	91 MMXS	0715 20140203	O-05
TRANSFERRED TO (Print and Sign) <i>Phillip Franklin</i> PHILLIP V. FRANKLIN	MMT Team Chief	741 MS	1230 20140203	G-03
TRANSFERRED TO (Print and Sign) <i>Felix Moret</i> FELIX J. MORET III	MCCC	741 MS	1230 20140203	G-03
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				

Figure 8.5. Sample AF Form 504, Weapons Custody Transfer Document, ICBM RS from LF.

WEAPONS CUSTODY TRANSFER DOCUMENT				
1. Control Number	2. Warhead/Bomb/Reentry Vehicle Serial Number(s)	3. Missile Serial Number(s) (if applicable)	4. Reentry System/Pylon/Launcher Serial Number (If Applicable)	5. A/C Tail Number (If Applicable)
14-03	N/A	N/A	9954	N/A
<p>6. CUSTODY STATEMENT: "I accept custodial responsibility for the items listed herein. I acknowledge that custodial responsibility referred to in this statement entails the custody, care, and safekeeping of these items and their components. Responsibility will be transferred when the signature of an authorized individual and appropriate date are entered on the next line following my signature below.</p>				
CUSTODIAN A	POSITION B	ORGANIZATION C	TIME/DATE D	LOCATION E
TRANSFERRED FROM (Print and Sign) <i>Geno Rapone</i> GENO M. RAPONE	DMCCC	742 MS	0800 20140203	O-02
TRANSFERRED TO (Print and Sign) <i>Terry Pate</i> TERRY L. PATE	MMT Team Chief	91 MMXS	0800 20140203	O-02
TRANSFERRED TO (Print and Sign) <i>Thomas Young</i> THOMAS YOUNG	MMT Transfer/Transport Custodian	91 MMXS	1045 20140203	O-02
TRANSFERRED TO (Print and Sign) <i>Joseph Huskey</i> JOSEPH W. HUSKEY	Munitions Team Chief	705 MUNS	1530 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>Lori Mann</i> LORIL. MANN	MASO	705 MUNS	1600 20140203	WSA
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				

Figure 8.6. Sample AF Form 504, Weapons Custody Transfer Document, Pylon/Launcher to Combat Aircraft.

WEAPONS CUSTODY TRANSFER DOCUMENT				
1. Control Number	2. Warhead/Bomb/Reentry Vehicle Serial Number(s)	3. Missile Serial Number(s) (If applicable)	4. Reentry System/Pylon/Launcher Serial Number (If Applicable)	5. A/C Tail Number (If Applicable)
1405	123456 234567 345678 456789 567890 678901	N/A	F-09B	60-0009
6. CUSTODY STATEMENT: "I accept custodial responsibility for the items listed herein. I acknowledge that custodial responsibility referred to in this statement entails the custody, care, and safekeeping of these items and their components. Responsibility will be transferred when the signature of an authorized individual and appropriate date are entered on the next line following my signature below.				
CUSTODIAN A	POSITION B	ORGANIZATION C	TIME/DATE D	LOCATION E
TRANSFERRED FROM (Print and Sign) <i>Marvin W. Weirenga</i> MARVIN W. WEIRENGA	MASO	410 MUNS	0715 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>William W. Wright</i> WILLIAM W. WRIGHT	Munitions Team Chief	410 MUNS	0720 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>Thomas Flees</i> THOMAS L. FLEES	Tow Driver	410 MUNS	0800 20140203	WSA
TRANSFERRED TO (Print and Sign) <i>Darrell Kerzmann</i> DARRELL M. KERZMANN	Aircraft Crew Chief	410 AMXS	0830 20140203	FIL
TRANSFERRED TO (Print and Sign) <i>James A. Blackwood</i> JAMES A. BLACKWOOD II	Aircraft Commander	644 BS	1600 20140203	FIL
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				
TRANSFERRED TO (Print and Sign)				

Chapter 9

NUCLEAR WEAPONS ACCOUNTABILITY REPORTS

9.1. Nuclear Weapons Accountability Reports.

9.1.1. Maintenance Activity Reports (MARs). MARs will be prepared using DIAMONDS to report changes in status of weapons, components and reportable Other Major Assemblies (OMAs) to the MASO. **(T-0)**. The MASO will ensure accurate and timely reporting to higher headquarters and JCS as required. **(T-1)**.

9.1.2. Units will ensure all changes listed in the Transaction Code tables of TO 11N-100-3150 that occur are reported to NARS via the MAR IAW TO 11N-3150-8-1. **(T-0)**.

9.1.3. Units must report the following actions: **(T-0)**.

9.1.3.1. Changes to the first character of the charge code require an MTO.

9.1.3.2. For weapons selected for SLT or SFT, change the charge code as directed by the SLT or SFT warning order or upon receipt of warning order message.

9.1.3.3. For weapons requiring shipment to DOE facilities for repair, change the last character of the charge code when UR disposition is received directing return to DOE.

9.1.3.4. For weapons selected for alteration, change the last character of the charge code when directed by the RO, or when directed by message. Change the charge code back to the original charge code as the RO is accomplished on each weapon.

9.1.3.5. NCP will direct other charge code changes by NCPO in the monthly NOSS. **(T-2)**.

9.1.4. Other actions that may not require reporting but affect other accountable records the MASO will maintain include:

9.1.4.1. Build-up/tear-down configuration of weapons to/from RS or pylon/ launchers. **(T-2)**.

9.1.4.2. Association or disassociation of a weapon or OMA item to/from a shipping container or bolster when being prepared for storage. **(T-2)**.

9.1.4.3. Application of a seal to a containerized weapon or OMA in order to preclude opening the container during semi-annual inventory. **(T-2)**.

9.1.4.4. Removal or installation of non-LLC components, where the action affects accountability of the item(s). **(T-2)**. Examples include such items as tail sections or gas generators that are accountable, but not WSR or QSR reportable items. The MASO will ensure these items are picked up or dropped from the account, when there is a removal or installation; or when a different part number item is installed from the one that was removed. **(T-2)**. Since the MASO must account for these items, maintenance must report actions involving them to the MASO. **(T-2)**.

9.1.4.5. Condition Code changes for Non-TO 11N-100-3150 reportable items issued on custody account. **(T-2)**.

9.1.4.6. Association and unassociation of H-Gear. **(T-2)**.

9.1.4.7. Other actions as required by local instructions. **(T-3)**.

9.1.5. If the verification inspection of containerized weapons cannot be accomplished on the day of receipt, take the following actions pending completion of a verification inspection:

9.1.5.1. Prepare the MAR for receipt and add the statement "Interim report pending verification inspection" in the "Maintenance Remarks" section.

9.1.5.2. MASO will hold the DD Form 1348-1A and DD Form 1911 in suspense until verification inspection is completed. **(T-1)**.

9.1.5.3. Once verification inspection is complete, MASO will verify all associated documentation for accuracy and process all forms held in suspense. **(T-1)**.

9.2. Weapon Status Report (WSR). The MASO will prepare WSRs using DIAMONDS. **(T-0)**. DTRA requests corrections to WSRs received with errors through the NCP. Corrections are due 1200 next day following notification to the unit. NCP will discuss the type of error and the corrective action with the applicable MAJCOM and reporting activity, as they occur to preclude further errors. Recommendations for changes to the stockpile database or processing methods are made when discrepancies are noted.

9.3. Container Asset Report (CAR). The MASO prepares and submits CAR IAW 11N-100-4.

9.4. Quality Assurance Service Test (QAST) Status Report (QSR). Prepare and submit the QSR using DIAMONDS as outlined in TO 11N-100-3150 and TO 11N-3150-8-1. **(T-0)**. The purpose of this report is to ensure accurate accountability between DoD and DOE of SS nuclear material. Requirements for inventory and reconciliation of SS materiel between DoD and DOE are covered in TO 11N-100-4.

9.4.1. Reporting changes for OMAs to the MASO. Maintenance personnel will report status changes for OMAs to the MASO using procedures in [paragraph 9.1](#) above. **(T-2)**. The MASO will report status changes to DTRA via a QSR. **(T-2)**.

9.4.2. Items that require OMA reporting. Reporting requirements apply to OMAs that contain SS materiel. Reporting is by end item type (using a modified weapon code), and serial number.

9.4.2.1. If a reporting activity can verify the item either does or does not contain reportable quantities of SS materiel, they will report the item as such using the appropriate letter in the fourth position of the OMA code. **(T-2)**. The MASO will accomplish this verification by reviewing the DOE/NRC Form 741 delivered to the service when the item is originally delivered. **(T-2)**. The DOE/NRC Form 741 indicates which SS materiel items are contained within the OMA.

9.4.2.2. Once an item is verified and properly entered into the DTRA database, presence or lack of SS materiel need not be verified again.

9.5. Location Inventory Listing (LIL). The DLIL contains unit stockpile information extracted from the DIAMONDS database at DTRA. DTRA prepares the DLIL monthly and publishes it on the "Support Center" site DB screen. The purpose of this report is to provide a product for the monthly reconciliation of unit records and stockpile information contained in

DIAMONDS. It also provides the unit a tool for scheduling and managing maintenance activities.

9.5.1. Reconcile by comparing the SLIL with the DTRA LIL (DLIL) (electronic or manual). After reconciliation is complete, the SLIL will be used for day-to-day stockpile management since SLIL is updated as transactions occur. **(T-2)**.

9.5.2. Monthly Reconciliation. Within five duty days of receipt, NARS personnel must reconcile the new DLIL against the SLIL. **(T-2)**.

9.5.2.1. Transactions reported after the effective date of the DLIL, but before its receipt, are carried forward.

9.5.2.2. If discrepancies are found, NARS personnel will validate against accountable documents. **(T-2)**. Report to the MAJCOM any discrepancies that cannot be reconciled locally. The MAJCOM then assists the unit through coordination with NCP to resolve the discrepancy.

9.5.2.3. NARS personnel will load and verify LLC kit pack dates, internal LLC serial numbers for weapons received since last reconciliation into the DIAMONDS database. **(T-2)**. NARS personnel will validate due dates during next LIL reconciliation. **(T-2)**.

9.5.2.4. NARS personnel will load unassociated (notional) due dates for serviceable components received since the last reconciliation into the DIAMONDS database. **(T-2)**. NARS personnel will validate due dates during next LIL reconciliation. **(T-2)**.

9.5.2.5. Once reconciliation is complete, NARS personnel will document completion. Inform the Operations Officer (OO)/Maintenance Superintendent (MX SUPT) the SLIL is ready for review. **(T-2)**.

9.5.3. Local distribution of the SLIL. NARS personnel may distribute the SLIL (paper or electronic) to other duty sections as required. If other sections utilize the SLIL, it is their responsibility to reconcile their copy against the copy maintained by NARS personnel. If the LIL is maintained in other sections, the other sections must maintain and update it in the same manner as the copy maintained by NARS personnel. **(T-3)**.

9.5.4. SIR LIL Reconciliation. As a part of the SIR, NARS personnel will verify the accuracy of the SLIL against information contained on the completed blind inventory worksheets. **(T-2)**. At a minimum, NARS personnel will ensure all weapon information and unassociated component serial numbers are accurate as compared to information recorded on the blind inventory worksheets. **(T-2)**.

JOHN B. COOPER
Lieutenant General, USAF
DCS/Logistics, Engineering and Force Protection

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

CJCSI 3150.04A, *Nuclear Weapons Stockpile Logistics Management and Nuclear Weapons Reports under the Joint Reporting Structure*, 24 Aug 2012

DoD S-5210.41M_AFI 31-108 (S-NOFORN), *The Air Force Nuclear Weapon Security Manual*, 7 Mar 2013

AFPD 21-2, *Munitions*, 17 Dec 2012

AFJI 11-204, *Operational Procedures for Aircraft Carrying Hazardous Materials*, 11 Nov 1994

AFI 13-526v1, *Prime Nuclear Airlift Force Operations*, 14 Jun 2013

AFI 16-1404, *Air Force Information Security Program*, 29 May 2015

AFI 21-200, *Munitions and Missile Maintenance Management*, 2 Jan 2014

AFI 21-201, *Conventional Munitions Maintenance Management*, 3 Jun 2015

AFI 21-204, *Nuclear Weapons Maintenance*, 17 Dec 2015

AFI 23-101, *Air Force Materiel Management*, 29 Jan 2016

AFI 24-230, *Maintaining Air Force DoD Activity Address Code (DoDAAC)*, 20 Feb 2009

AFMAN 33-364, *Records Disposition—Procedures and Responsibilities*, 22 Dec 2006

AFI 91-115, *Safety Rules for Nuclear Logistics Transport by the Prime Nuclear Airlift Force*, 19 Jun 2014

AFI 91-101, *Air Force Nuclear Weapons Surety Program*, 15 Aug 2015

AFI 91-204, *Safety Investigations and Reports*, 12 Feb 2014

AFMAN 91-221, *Weapons Safety Investigations and Reports*, 21 Aug 2015

C-1100-ML, *Management Data List*, 1 Apr 2016

TO 11N-45-51, *Transportation of Nuclear Weapons Materiel*, 22 Mar 2006

TO 11N-45-51A, *Transportation of Nuclear Weapons Materiel – Shipping and Identification Data for Stockpile Major Assemblies*, 12 Nov 2014

TO 11N-45-51B, *Transportation of Nuclear Weapons Materiel – Loading and Unloading of Flatbed Truck or Tractor Trailer, Safeguards Transporter, Limited Life Component Truck, Military Air Shipment, and Palletized Cargo*, 4 Mar 2015

TO 11N-100-1, *Supply Management of Nuclear Weapons Materiel*, 15 Apr 2010

TO 11N-100-2, *Supply Management of Limited Life Components*, 23 Jun 2011

TO 11N-100-4, *Custody, Accountability, and Control of Nuclear Weapons and Nuclear Materiel*, 31 Aug 2011

TO 11N-3150-8-1, *USAF DIAMONDS Policy and Procedures*, 26 Oct 2015

TO 11N-100-3150, *Joint Reporting Structure; Nuclear Weapons Reports*, 1 May 2014

Prescribed Forms

AF Form 504, *Weapons Custody Transfer Document*

Adopted Forms

AF Form 36, *Supply Document Register*

AF Form 85A, *Inventory Count Card*

AF Form 847, *Recommendation for Change of Publication*

AF Form 1168, *Statement of Suspect/Witness/Complaint*

AF Form 1297, *Temporary Issue Receipt*

AF Form 1996, *Adjusted Stock Level*

AF Form 2005, *Issue/Turn-In Document*

AF Form 3126, *General Purpose Form*

DD Form 114, *Military Pay Order*

DD Form 200, *Financial Liability Investigation of Property Loss*

DD Form 361, *Transportation Discrepancy Report*

DD Form 362, *Statement of Charges/Cash Collection Voucher*

DD Form 1131, *Cash Collection Voucher*

DD Form 1150, *Request for Issue or Turn-In*

DD Form 1348-1A, *(EG) Issue Release/Receipt Document*

DD Form 1911, *Materiel Courier Receipt*

SF Form 364, *Report of Discrepancy*

DOE/NRC Form 741, *Nuclear Materiel Transaction Report*

DOE Form 1540.2, *U.S. Department of Energy Courier Receipt*

Abbreviations and Acronyms

AAAL—Access, Approval, and Authority List

AFEMS—Air Force Equipment Management System

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFMC—Air Force Materiel Command

AFPD—Air Force Policy Directive

AFSC—Air Force Safety Center or Air Force Specialty Code

AFTO—Air Force Technical Order

ALCM—Air Launched Cruise Missile
AMC—Air Mobility Command
AMXS—Aircraft Maintenance Squadron
BMSS—Base and Military Spares Server
BS—Base Spare
CAS—Combat Ammunition System
CDS—Command Disable System
CJCSI—Chairmen of the Joint Chiefs of Staff Instruction
CONUS—Continental United States
DIAMONDS—Defense Integration and Management of Nuclear Data Services
DIFM—Due in from Maintenance
DLIL—DTRA LIL
DOE—Department of Energy
DSRL—DOE Spares Repair List
DTRA—Defense Threat Reduction Agency
ERRC—Expendability, Recoverability, Reparability Code
EUCOM—European Command
FE—Base Equipment Account
FK/FV—Munitions/Weapons Account
FOB—Found On Base
FOUO—For Official Use Only
HAF—Headquarters Air Force
HQ—Headquarters
IAV—Inventory Adjustment Voucher
ICBM—Intercontinental Ballistic Missile
ILS—S – Integrated Logistics System - Supply
JCS—Joint Chiefs of Staff
JQS—Job Qualification Standard
LF—Launch Facilities
LCC—Launch Control Center
LIL—Location Inventory List
LLC—Limited Life Component

LRS—Logistics Readiness Squadron
MADO—Missile Alert Duty Order
MAJCOM—Major Command
MAR—Maintenance Activity Report
MASO—Munitions Accountable Systems Officer
MCC—Missile Combat Crew
MFD—Military First Destination
MS—Military Spares
MUNS—Munitions Squadron
MUNSS—Munitions Support Squadron
MXS—Maintenance Squadron
MMXS—Missile Maintenance Squadron
MTO—Materiel Transfer Order
NARS—Nuclear Accountability and Reporting Section
NCP—Nuclear Control Point
NCOIC—Noncommissioned Officer in Charge
NNSA—National Nuclear Security Administration
NOCM—Nuclear Ordnance Controlled Materiel
NOSS—Nuclear Ordnance Shipping Schedule
NSC—Nuclear Security Campus (formerly known as Kansas City Plant)
NSN—National Stock Number
NUREP—Nuclear Weapon Report
NWRM—Nuclear Weapons Related Materiel
OCONUS—Outside the Continental United States
OST—Office of Secure Transportation
OT&E—Operational Test and Evaluation
PAL—Permissive Action Link
PNAF—Prime Nuclear Airlift Force
PRP—Personnel Reliability Program
QAST—Quality Assurance Service Test
QC—Quality Control
QSR—QAST Status Report

RDS—Records Disposition Schedule

RS—Reentry System

RV—Reentry Vehicle

SAAM—Special Assignment Airlift Mission

SBSS—Standard Base Supply System

SCV—Stock Change Vouchers

SDT—Second Destination Transportation

SE—Support Equipment

SEV—Stockpile Emergency Verification

SF—Standard Form or Sandia Form (Specified)

SFT—Stockpile Flight Test

SGT—Safeguards Transporter

SIPR—Secure Internet Protocol Router

SIR—Semiannual Inventory Report

SLA—Service Logistics Agent

SLIL—Site LIL

SLPR—Stockpile Location Planning Report

SLT—Stockpile Laboratory Test

SRAN—Stock Record Account Number

SS—Source and Special

TC—Team Chief

TCIS—Time Change Item Schedule

TCTO—Time Compliance Technical Order

TO—Technical Order

UIC—Unit Identification Code

UND—Urgency of Need Designator

UR—Unsatisfactory Report

USAF—United States Air Force

USAFE—United States Air Forces in Europe

USAL—Unit Spares Authorization Listing

WR—War Reserve

WSR—Weapon Status Report

Terms

Accountability—The obligation imposed by law or lawful order or instruction on an officer or other person for keeping accurate, reliable and auditable record of property, documents, or funds. The person having this obligation may or may not have actual possession of the property, documents or funds. Accountability is concerned primarily with records, while responsibility is concerned primarily with custody, care and safekeeping.

Active Files—Documentation retained and filed within the current fiscal or calendar year.

Assembly—An accounting term for nuclear weapons/warheads configured for integration onto delivery vehicles. Examples include ICBM warhead with forward and aft sections mated (referred to as RV), W80s mated to missiles and gravity weapons.

Associate—1. An accounting term for nuclear weapons/warheads configured onto an intermediate delivery device. Examples include RVs mated to RS and air launched missiles/gravity weapons mated to pylons/launchers. This accounting term does not apply to gravity weapons at tactical units. 2. A term applicable to nuclear weapons and components reflecting direct relationship with shipping and storage containers and/or handling units.

Base Spares—Parts and components authorized in spare parts list (SPL) published by Sandia National Laboratories (SNL), funded for, procured, and owned by DOE and furnished to the DoD for use in maintaining and repairing WR nuclear weapons and DOE-owned equipment supplied to DoD with the WR weapon. Parts remain the property of DOE regardless of custody.

Blind Inventory Worksheet—Locally developed worksheet used to record item identification (serial number) and any other information deemed relevant by the MASO (e.g., location, and configuration of items being inventoried.)

Commander—Unless otherwise specified, "Commander" in this AFI is defined as the squadron or detachment commander.

Consignee—Receiving organization.

Consignor—Shipping organization.

Consumption Issue—An issue whereby the item is considered consumed and dropped from the account when given to the requester.

Critical Component—A component of a nuclear weapon system that if bypassed, activated, or tampered with could result in or contribute to deliberate or inadvertent authorizing, pre-arming, arming, or launching of a combat delivery vehicle carrying a nuclear weapon, or the targeting of a nuclear weapon to other than its planned target. HQ AFSC/SEW designates critical components.

Custodial Agent—An officially appointed individual acting on behalf of and for the MASO in maintaining control of access to US nuclear weapons and maintaining control of weapons prior to release. This term is usually associated with Security Force related duties of protecting nuclear resources.

Custodial Detachment—A US unit, which maintains custody of nuclear weapons for use by a non-United States delivery unit and acts in support of that unit. A custodial detachment may also maintain accountability for nuclear weapon in its custody.

Custody—As defined in the DOE-DoD Stockpile Agreement, custody is the responsibility for the control of transfer and movement of, and access to, weapons and components. Custody also includes the maintenance of accountability for weapons and components. Custody is also the guardianship and safekeeping of nuclear weapons and their components and of source and special nuclear materiel. Custody may or may not include accountability.

Custody Transfer—Transferring custody of nuclear weapons during operational and logistics movements.

Delivery Vehicle—Portion of a weapon system that delivers a nuclear weapon to its target. This includes cruise and ballistic missile airframes as well as delivery aircraft.

Demate—To remove air-launched missile (with or without warhead) or weapon from a pylon or launcher, to remove a RS from a MMIII Guidance Set.

Disassemble—An accounting term for the basic configuration of nuclear devices. These items may or may not be placed in shipping and storage containers, trailers, maintenance stands etc. Examples include ICBM warheads without forward and aft sections mated; and W80s not mated to missiles.

DOE Spares—See Base Spares.

DOE Spares Repair List (DSRL)—The DSRL identifies selected WR and trainer spare items of high value or limited availability, which, if they are found by DoD to be defective and are determined to be beyond authorized field capability to repair, must be returned to DOE for repair.

Exclusion Area—Any designated area immediately surrounding one or more nuclear weapon(s) /systems(s). Normally, the boundaries for the area are the walls, floor and ceiling of a structure or are delineated by a permanent or temporary barrier. In the absence of positive preventive measures, access to the exclusion area constitutes access to the nuclear weapon(s) /system(s).

Handling—Physically maneuvering weapons either directly or indirectly by people (i.e., sliding, lifting, hoisting, over short distances using manpower, tugs, cranes, forklifts or hoists).

H-Gear—Specially designed devices intended for use in assembling, disassembling, handling, transporting or containing weapons or weapons materials. Special equipment items are designated with an "H" designation in their nomenclature.

In-Hand—An accounting term to report weapons that are in physical possession of an operational unit designated to employ the weapon (see TO 11N-100-3150 for more detail).

Inactive Files—Documentation retained and filed for prior fiscal or calendar year(s).

Installed—A term applicable to nuclear components/subsystems and their presence/ installation in/on a nuclear weapon/warhead/device. Examples include limited life components, parachutes, etc.

Joint Test Assembly (JTA)—A DOE developed configuration based on DOE-DoD requirements for use in a joint flight test program, comprised of a joint test subassembly and WR weapons components.

Limited Area—A designated area that immediately surrounds one or more exclusion areas. Normally, the area is between the boundaries of the exclusion area(s) and the outer or inner barrier or boundary of the perimeter security system.

Limited Life Component—Any item listed in TO 11N-100-2 or so designated by DOE.

Logistics Movement—The transport of nuclear weapons by any appropriate noncombat delivery vehicle outside a permanent limited or exclusion area.

Munitions Accountable Systems Officer (MASO)—The individual responsible for the guardianship and safekeeping of nuclear weapons, their components and of SS materiel.

Mate—To place an air-launched missile (with or without warhead) or weapon on a pylon or launcher, to place a RS on a MMIII Guidance Set.

Military Spares—Parts and components authorized in SPL published by Sandia National Laboratories (SNL), funded for, procured, and owned by DoD, and required for support of DOE and DoD produced training weapons and all cable test (CT) disablement equipment (DE), test (T), and handling (H) equipment except those DOE-owned items supplied to the DoD with WR weapons.

Non-nuclear munitions—Training weapons, shapes, JTAs, BDUs, Empty missiles/containers, OMAs, etc.

Non-operational—A reportable item that is either defective to the extent that the assembly is rendered unsuitable for employment, is subject to a hold order that prohibits all operational use until a specified defect is remedied, or that contains any major component (including, but not limited to an LLC) that has exceeded its expiration date (also referred to as “Red”).

Nuclear Cargo—Nuclear weapons, nuclear warheads, and Class II components containing active material prepared for logistics movement.

Nuclear Ordnance Controlled Materiel (NOCM)—Base and Military Spares used on or with any nuclear weapons, which must be specifically controlled because of design, security or quality control requirements.

Nuclear Ordnance Shipping Schedule (NOSS)—A monthly forecast of logistic movements of nuclear and nuclear-related cargo.

Nuclear-Related Cargo—Nuclear training and test weapons, non-nuclear components of nuclear weapons, limited life components, and equipment associated with the logistics management of nuclear weapons.

Nuclear Weapon—A complete assembly (i.e., implosion type, gun type, or thermonuclear type), in its intended ultimate configuration that, upon completion of the prescribed arming, fuzing, and firing sequence, is capable of producing the intended nuclear reaction and release of energy.

Nuclear Weapons Related Materiel (OSD Definition)—Classified or unclassified assemblies and subassemblies (containing no fissionable or fusionable materiel) identified by the Military Departments that comprise or could comprise a standardized war reserve nuclear weapon (including equivalent training devices) as it would exist once separated/removed from its intended delivery vehicle.

Nuclear Systems Related Materiel (AF)—Classified or unclassified nuclear weapon system components whose purpose is to pre-arm, arm, launch or release a nuclear weapon and require special controls to maintain and protect system integrity and security, as well as engineering and design information (e.g., guidance set, classified critical components, launch control, use control equipment).

On-Hand—An accounting term to report weapons that are in the physical custody of an accountable officer (see TO 11N-100-3150 for more detail).

Operational—The status of a weapon when ready to discharge its prime function (also referred to as “Yellow”).

Operational Movement (Operational Transport (DoD))—The safe and secure movement of nuclear weapons and nuclear weapon systems conducted by the responsible DoD organization. Typically, operational transport is from secure storage to an operational delivery platform. Operational transport includes:

- Aircraft generation (movements between storage location and operational aircraft).
- Missile generation (movements between storage at operational bases and launch facilities).
- Movements between operational bases and forward-deployed sites.

Other Major Assemblies (OMA)—Items, which are similar to WR weapons in physical characteristics, but are not used for training, testing or evaluation purposes. OMAs are specially designed to test weapons, weapons materials or operations involving the testing of weapons or weapons material.

Prime Nuclear Airlift Force (PNAF)—The aircraft and aircrew that provide peacetime logistical airlift support for the movement of nuclear weapons and or nuclear components.

Removed—A term applicable to nuclear components/subsystems and their absence/ removal from a nuclear weapon/warhead/device. Examples include limited life components, parachutes, etc.

Reportable Change—Any transaction applicable to a reportable item. For example, receipt, shipment, completion of an alteration, change in configuration and change in allocation, sub allocation or deployment charges.

“S” Materiel—Major assembly items or product entities over which DOE and Sandia National Laboratories have technical control.

Safe Haven—Temporary storage provided to DOE classified equipment transporters at DoD facilities in order to assure safety and security of nuclear material and or non-nuclear classified materiel during civil disturbances, natural disasters, or other conditions, which could affect the safety, or security of the DOE shipment. Also includes parking for commercial vehicles containing Class A or Class B explosives.

Safeguards Transporter (SGT)—A modified semi-trailer used for highway transit of special nuclear materiel including nuclear weapons. It includes armored, penetration sensing and deterrent materials. The DOE owns and operates all SGTs.

Second Destination Transportation (SDT)—A term used in transportation budgetary funding processes to identify required internal DoD movement of nuclear cargo.

Service Spares—Parts and components in FSG 11 authorized in illustrated parts breakdowns, funded for, procured and owned by DoD, which are peculiar by application or original design to the Air Force nuclear weapons program, and for which Air Logistics Centers have management responsibilities.

Source Documents—Documents used to schedule maintenance, validate requirements, verify accountability and/or custody procedure documents. Examples include, but are not limited to, LIL, MTO, time change item schedule, messages, direction from the SLA, special procedures and retrofit orders.

Special Assignment Airlift Mission (SAAM)—Airlift requirements, including JCS-directed/coordinated exercises, that require special consideration due to the number of passengers involved, weight or size of cargo, urgency of movement, sensitivity, or other valid factors that preclude the use of channel airlift.

Special Weapons Overflight Guide (SWOG)—A United States Air Force-developed guide, applicable to all elements of the DoD, that delineates areas authorized for overflight by United States aircraft carrying nuclear weapons and the specific security classification for overflight of foreign countries.

Support Equipment (SE)—All equipment required to perform the support function, except that which is an integral part of the mission equipment. It does not include any of the equipment required to perform mission operation functions. SE consists of tools; test equipment; automatic test equipment (ATE) (when the ATE is a support function); organizational, field, and depot SE; and related computer programs and software.

Unassociated—A term applicable to un-associating nuclear weapons/warheads/ device and components with shipping and storage containers and/or handling units.

Unit Spares Authorization Listing (USAL)—A listing of DOE spares, reorder point, and/or maximum levels, to be stocked at a unit IAW TO 11N-100-1.

War Reserve—Nuclear weapons and nuclear weapons materiel intended for use in the event of a war.

Weapons Status—Two categories of weapons status are used: Red (non-operational) and Yellow (operational).