This publication implements Air Force Policy Directive (AFPD) 13-5, Air Force Nuclear Mission and is consistent with AFPD 11-2, Aircrew Operations. It provides guidance and procedures on the training program for mobility aircrews to safely accomplish Prime Nuclear Airlift Force (PNAF), PNAF support, and Emergency Nuclear Airlift Operations (ENAO) missions and establishes an associated command and control execution cell exercise requirement. It applies to all Regular Air Force and Air Force Reserve C-17 and C-130 aircrew members. This instruction does not apply to foreign exchange officers and Air National Guard assigned and/or attached to airlift squadrons operating C-17 and C-130 aircraft. This Air Force Instruction (AFI) may be supplemented at any level but all supplements to this regulation must be coordinated and approved by the Office of Primary Responsibility listed above for coordination prior to certification and approval. Refer to recommended changes and questions about this publication using the Air Force (AF) Form 847, Recommendation for Change of Publication, via email to usaf.pentagon.af-a10.mbx.af-a10-c-workflow@mail.mil. Route the AF Form 847 from the field unit through the appropriate functional chain of command. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“T-0, T-1, T-2, T-3”) number following the compliance statement. See AFI 33-360, Publications and Forms Management, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the requestors commander for non-tiered compliance items. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule located in the

SUMMARY OF CHANGES

Key changes include updating HQ AMC Nuclear Operations Division (AMC/A3NA) to reflect updated office symbol (AMC/A10NA). Additionally, Paragraphs 2.5. and 2.11, Training and Nuclear Cargo Handling Restrictions and PNAF Qualifications, Evaluations and Certification, respectively, both incorporate information previously found in AFI 13-526 Vol 1, Prime Nuclear Airlift Force Operations. For brevity purposes, adjusted specific C-17 and C-130 AFI references as necessary to reflect generic Mission Design Series (MDS) verbiage.

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Chapter 1

GENERAL

1.1. Training Objectives

1.1.1. This instruction prescribes basic policy and guidance for training PNAF crewmembers and associated mission support agencies for the execution of nuclear airlift operations. This instruction also prescribes basic training guidance for Regular Air Force and Air Force Reserve C-17 and C-130 crewmembers to conduct ENAO.

1.1.2. In accordance with (IAW) AFI 11-200, Aircrew Training, Standardization/Evaluation, and General Operations Structure, this instruction consolidates PNAF training requirements into a single-source document. Although this publication governs nuclear weapons airlift operations training, it refers to training requirements directed in other referenced source documents. If there is a conflict concerning a specific training requirement, units will comply with the source document which establishes the specific training requirement.

1.1.3. Aircrew training directed in this instruction will be conducted by the applicable Aircrew Training System or airlift units operating C-17 and C-130 aircraft. (T-1)

1.1.4. Only personnel who have successfully completed training outlined in this instruction will handle nuclear cargo. (T-0)

1.2. Roles and Responsibilities

1.2.1. Major Commands (MAJCOM)

1.2.1.1. Headquarters (HQ) Air Mobility Command (AMC) Nuclear Operations Division (A10NA) will develop and maintain initial and continuation training requirements to include: Crew Qualification/Certification Training Guides, Academic Computer Based Training, Master Question File, and Course Outlines.

1.2.1.2. Unless specified elsewhere, HQ AMC/A3/10, Director of Operations, Strategic Deterrence and Nuclear Integration, is the waiver authority for requirements unique to this publication. Follow the source document waiver process for all other training requirements.

1.2.2. Wing/Unit

1.2.2.1. PNAF Wings will review their nuclear weapons airlift operations training program annually to ensure all requirements set forth in the basic instruction are satisfied. (T-2) Deficiency reports will be submitted to the Wing Commander (Wing/CC). (T-2)

1.2.2.1.1. PNAF Wings will review locally developed training material annually to ensure compliance with nuclear surety directives and established requirements (e.g. Academic Training, Training Guides, Nuclear Surety Training, Personnel Reliability Program training, etc.). (T-1)

1.2.2.1.2. Document observations and provide training update requests to AMC/A10NA and/or AMC Weapons Safety Division (AMC/SEW). (T-2)

1.2.2.2. To ensure serviceability, the responsible agency at PNAF units will inspect, maintain, and account for Type 3E trainers, Bomb Dummy Units, Munitions Materiel

1.2.2.3. Units will refer to the Master Nuclear Certification List for verification of certified equipment. *(T-2)*

1.2.2.4. Wing supplements, Memorandums of Understanding or Letters of Agreement will specify and emphasize the storage and maintenance of Type 3E trainers, Bomb Dummy Units, munitions maintenance handling equipment, containers, and other support equipment. *(T-2)*

1.2.2.5. Unit custodians will ensure maintenance requirements are documented and brought to the attention of the responsible organization. *(T-2)*

1.2.2.6. Depot assistance under provisions of T.O. 00-25-107, *Maintenance Assistance*, will be coordinated on an exception basis, and only after it is determined required maintenance exceeds the local capability.

   1.2.2.6.1. When depot assistance is required, the owning organization will forward necessary maintenance requests to the appropriate agencies. *(T-2)*

1.2.2.7. Unit custodians and munitions specialists should assist the Aerospace Ground Equipment Flight when Type 3E trainers and Bomb Dummy Unit sub-assemblies must be loaded to/from munitions maintenance handling equipment in order to perform maintenance.

1.2.2.8. If nuclear certified munitions maintenance handling equipment is not used, aircrew training equipment will be marked, "For Training Use Only." Upon turn-in, munitions maintenance handling equipment will be condition-tagged to require complete inspection and functional testing IAW applicable T.O.s prior to use for actual weapons handling.
Chapter 2

PNAF TRAINING

2.1. PNAF Training Policy

2.1.1. IAW AFPD 13-5, MAJCOMs will enhance and reinforce nuclear partnerships to ensure training, security, credibility and viability of the Air Force Nuclear Enterprise. Successful PNAF training is dependent on MAJCOM partnerships due to the intensive planning, coordination, and support requirements associated with executing nuclear airlift logistics operations. MAJCOMs and subordinate units will place a high priority on all efforts to support PNAF training.

2.1.2. PNAF training will emphasize nuclear surety standards and compliance with appropriate directives. AFMAN 13-526, Nuclear Airlift Operations, establishes guidance for nuclear airlift operations used by PNAF aircrews and associated units for the logistic movement of nuclear cargo and components.

2.2. Planning/Execution/Support

2.2.1. To the maximum extent possible, PNAF training missions should mirror the processes and procedures outlined in AFMAN 13-526.

2.2.2. In the event there are no tasked Special Assignment Airlift Missions within a calendar year, the 618th Air Operations Center (618 AOC) will coordinate with the PNAF unit to plan and execute an overseas training mission. The 618 AOC Commander (618 AOC/CC) is the waiver authority for this requirement. (T-3)

2.3. PNAF Crewmember Prerequisites

2.3.1. Prior to PNAF training, members are required to have a security clearance. Minimum security clearance required will be in accordance with DoD Manual (DoDM) 5210.42_AFMAN 13-501, Nuclear Weapons Personnel Reliability Program. Additionally, all PNAF personnel must have access to Restricted Data/Formerly Restricted Data. (T-0)

2.3.2. Prior to entering PNAF certification/qualification training, all personnel must complete an initial aircraft qualification course in the major weapon system they will perform the PNAF mission. Additionally, all PNAF personnel will be current and qualified in their respective major weapon system crew position IAW AFI 11-2C-17 Volume 1, C-17 Aircrew Training, and AFI 11-2C-130 Volume 1, C-130J Aircrew Training, (collectively referred to hereafter as “AFI 11-2MDS, Volume 1”). (T-1)

2.3.3. All PNAF candidates will complete Nuclear Surety and PNAF Academic Training within 60 days prior to participating in training flight operations. (T-1)

2.3.4. Initial weapon type familiarization training is required for each weapon type prior to Copilot certification. Copilot weapon type training will consist of a general hands-on overview focused on inspection criteria listed in T.O. 11N-45-51, Transportation of Nuclear Material. Do not conduct weapon type training on tasked PNAF missions. Document training under event identifier W076 A-E as defined in Chapter 3. (T-2)
2.3.5. Prior to entering PNAF certification/qualification training, prospective PNAF crew members will meet Personnel Reliability Program certification requirements in DoD Manual (DoDM) 5210.42_AFMAN 13-501, Appendix 2 to Enclosure 3.

2.4. PNAF Aircrew Training

2.4.1. HQ AMC approved PNAF crew qualification/certification training guides will stipulate the appropriate level of supervision necessary to conduct initial upgrade or re-qualification training. (T-1)

Table 2.1. Ancillary PNAF training requirements:

<table>
<thead>
<tr>
<th>Source Publication/Instruction</th>
<th>Training Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFI 20-110, Nuclear Weapons-Related Material (NWRM) Management</td>
<td>Nuclear Weapons-Related Material Training</td>
</tr>
<tr>
<td>AFI 21-205 Confidential Formerly Restricted Data (C-FRD), Command Disable System (CDS)</td>
<td>Command Disable System Procedural Training</td>
</tr>
<tr>
<td>AFI 91-101, Air Force Nuclear Weapons Surety Program</td>
<td>Nuclear Weapons Surety Training</td>
</tr>
<tr>
<td>AFI 91-115, Safety Rules for Nuclear Logistics Transport by Prime Nuclear Airlift</td>
<td>PNAF Aircrew Training</td>
</tr>
<tr>
<td>AFMAN 13-526, Nuclear Airlift Operations</td>
<td>PNAF Aircrew Training</td>
</tr>
<tr>
<td>Applicable AFI 11-2MDS, Operations Procedures</td>
<td>PNAF Aircrew Training</td>
</tr>
</tbody>
</table>

2.4.2. PNAF qualified units will utilize HQ AMC/A10NA developed training guides for initial qualification or certification training per crew position. (T-1) Required training outlined in AMC/A10NA approved training guides must be satisfied prior to the student proceeding to an evaluation and/or certification ride for the respective crew position. (T-1)

2.4.3. Requalification training requirements will be developed and approved by the PNAF squadron commander (SQ/CC) on a case-by-case basis. (T-1) SQ/CC’s will develop requalification training programs based on individual proficiency, prior PNAF experience, and time since most recent qualification. The PNAF SQ/CC will comply with requirements listed in AFI 11-202 Volume 1, Aircrew Training and AFI 11-2MDS Volume 1 when developing requalification training. (T-2) Except for PNAF CQ pilots, all requalification programs will culminate in an individual flight evaluation for the designated crew position. (T-1)
2.4.4. PNAF crewmembers will receive training on weapon types approved for airlift identified in AFI 91-115. (T-1) Refer to paragraph 3.1.11 for specific duty position training requirements.

2.4.4.1. Weapon type training does not pertain to W78 warheads until a Higher Headquarters transportation request is received from an authority specified in AFI 91-115.

2.5. Training and Nuclear Cargo Handling Restrictions

2.5.1. Adhere to training restrictions or limitations specified in AFI 91-115. (T-1)

2.5.2. Students or PNAF crewmembers may not perform an act or procedure directly involving nuclear weapons in which they are not qualified/certified to perform. (T-0)

2.5.3. Crewmembers in Courier or Aircraft Commander upgrade may accomplish qualification training on tasked PNAF missions but will comply with additional guidance specified in AFMAN 13-526. (T-0)

Note: PNAF Courier and Aircraft Commander Qualification training does not constitute “training with nuclear cargo” as PNAF certification is a prerequisite for either crew position. See paragraph 2.11.3. for Copilot certification information.

2.5.4. Copilot certification or Loadmaster qualification training may be accomplished on tasked PNAF missions but only for the sole purpose of observing certified personnel perform required tasks. (T-0)

2.5.4.1. Students may only handle training devices on inactive legs of tasked Type-I nuclear missions (e.g. no nuclear weapon being handled/transported on that leg). (T-0)

2.5.5. PNAF crewmembers must be current in their respective crew position when handling nuclear cargo. (T-1)

2.6. Recurring Training Requirements

2.6.1. Recurring training is the responsibility of the individual crewmember. Crewmembers must actively work with unit schedulers and training offices to ensure training is accomplished and documented appropriately. (T-1) PNAF units will develop procedures to track and monitor individual crewmember currency identified in Table 3.1. (T-1)

2.6.2. Table 3.1 lists PNAF continuation training requirements. Recurring currency items may be accomplished on tasked nuclear airlift missions, continuation training missions that simulate the transportation of nuclear weapons or locally generated ground trainers (when applicable). IAW AFMAN 13-526, non-current crewmembers may only participate in an observation role on mission segments transporting nuclear cargo. (T-1)

2.6.3. PNAF currency may only be re-gained while under the supervision of a current and qualified PNAF instructor. (T-1)

2.6.4. Do not change the method of loading to accomplish recurring training requirements on missions tasked to transport actual nuclear weapons. (T-1)

2.7. Testing
2.7.1. At the conclusion of PNAF academics, individuals will be presented a multiple-choice closed book examination and must attain passing grade of 85 percent or higher. (T-3) If an 85 percent or higher is not achieved, individuals will review missed subject criteria and have one additional attempt to earn a passing score. If a second failure occurs, no further attempts are permitted and the individual must report to the Nuclear Airlift Monitor. The Nuclear Airlift Monitor will provide remedial training before additional tests are attempted. All retraining will be documented (e.g. Aircrew Training System, Graduate Training Integration Management System, etc). (T-2) PNAF crewmembers are prohibited from participating in tasked nuclear airlift missions until achieving a passing score on PNAF academics. (T-3)

2.7.2. Prior to Copilot certification, a locally-produced closed book test of at least 20 PNAF Master Question File questions will be administered. A passing grade of 85 percent or higher must be attained. Report all failures to the Nuclear Airlift Monitor prior to retesting. (T-3) Nuclear Airlift Monitor will conduct remedial training prior to administering copilot retest.

2.8. PNAF Training Records

2.8.1. All PNAF currency requirements will be documented in the Aviation Resource Management System or locally developed tracking database. (T-2) Crewmember qualification and certification training will be documented in the designated training records program (e.g. Aircrew Training System, Graduate Training Integration Management System, etc.). (T-2)

2.8.2. Crewmember qualification or certification Training Guides will be maintained IAW Air Force Records Information Management System records disposition schedules. (T-2)

2.9. PNAF Exercises

2.9.1. Each Calendar Year, 618 AOC will conduct a Table-Top Exercise encompassing a PNAF aircraft divert scenario. The Table-Top Exercise should alternate between continental and outside continental United States (U.S.) divert scenarios. Each Table-Top Exercise should be coordinated with HQ AMC/A10NA. A report detailing any internal limiting factors/issues will be submitted to 618 AOC/CC. The 618 AOC/CC is the waiver authority for the completion of this training requirement. (T-3)

2.9.2. At least once every 24-months, 18 AF and 3 AF Tasked Nuclear Airlift Mission Support bases will conduct a PNAF Divert Exercise supporting a simulated Type-I nuclear laden aircraft. (T-2) Responsible units will coordinate divert exercises with HQ AMC/A10NA, supported by 618 AOC and the PNAF unit. (T-2) Non-nuclear tasked units will submit an exercise After Action Report including any lessons learned to HQ AMC/A10N. (T-2) 18 AF/CC is the waiver authority for this requirement. (T-2) Note: 618 AOC involvement in live-fly divert exercises satisfies the training requirement specified in Paragraph 2.9.1.

2.10. Training Requirements for Mission Essential Personnel

2.10.1. This paragraph applies to personnel granted mission essential personnel authorization IAW AFI 11-401 to fly on tasked nuclear airlift mission (e.g. Flying Crew Chiefs, Phoenix Raven Teams, inspectors, etc.). In addition to requirements directed in AFMAN 13-526, before flying on tasked PNAF missions, mission essential personnel will complete Nuclear Weapons Surety Training IAW AFI 91-101.
2.11. PNAF Qualifications, Evaluations and Certification

2.11.1. PNAF Qualifications: Crewmembers occupying a primary PNAF crew position when nuclear cargo is airlifted will be qualified according to IAW AFI 11-2C-17 Volume 2, C-17 Aircrew Evaluation Criteria, and AFI 11-2C-130 Volume 2, C-130J Aircrew Evaluation Criteria, (collectively referred to hereafter as “AFI 11-2MDS, Volume 2”) current in both the mission aircraft and recurring PNAF training requirements, and certified as outlined within this manual. (T-1)

2.11.1.1. Additional crewmembers and aircrew supervisors not meeting PNAF qualification requirements will not occupy a primary crew position with nuclear cargo aboard. (T-1)

2.11.2. PNAF Evaluations. Crewmembers who are Interim-certified under the Personnel Reliability Program may receive PNAF evaluations. Commanders will ensure initial crewmember evaluations are not accomplished on missions carrying nuclear cargo. (T-2)

2.11.3. PNAF Copilot Certification. Officers must be certified in the Copilot position before entering a formal PNAF Courier or PNAF Aircraft Commander Qualification upgrade.

Exception: Previously qualified PNAF Couriers or PNAF Aircraft Commanders may enter a formal PNAF requalification program (Courier or Aircraft Commander) without being recertified as a PNAF Copilot. (T-1)

2.11.3.1. Certified Copilots in formal upgrade to Courier or Aircraft Commander may occupy and perform duties in a primary crew position on nuclear missions as long as the individual satisfies the following:

2.11.3.1.1. Current for the weapon type designated for logistics transport. (T-1)

2.11.3.1.2. Directly supervised by a qualified Courier or Aircraft Commander Instructor counterpart. (T-1)

2.11.4. PNAF Aircrew Certification. PNAF squadron/unit Commanders will certify each nuclear airlift qualified crewmember, including themselves, senior-ranking Commanders, and attached crewmembers. (T-2) Following Operations Group Commander (OG/CC) review, the Wing/CC will approve all crewmember certifications. (T-2) Document all certifications in the Review and Certification Board minutes in accordance with AFI 11-202 Vol 2, Aircrew Standardization/Evaluation Program, the appropriate MAJCOM supplement, and on the individual crewmember’s AF Form 4324, Aircraft Assignment/Aircrew Qualification Worksheet in accordance with AFI 11-MDS Vol 1. Crewmembers will not perform Prime Nuclear Airlift Force duties with nuclear cargo until certification is approved by the Wing/CC. (T-2)
Chapter 3

PNAF AVIATION RESOURCE MANAGEMENT SYSTEM/CURRENCY IDENTIFIERS AND EVENT DESCRIPTIONS

3.1. PNAF Training Event Identifiers and Descriptions


3.1.1.1. Purpose: Delineates responsibilities and establishes guidance and procedures for the use of Command Disable codes for U.S. nuclear weapons.

3.1.1.2. Description: Academic training designed to educate individuals with access to nuclear weapons the applicability and use of the Command Disable System. Refer to AFI 21-205 (C-FRD) for additional training information to include additional exercise requirements.

3.1.1.3. Office of Primary Responsibility: Air Force Nuclear Weapons, Missile and Munitions Divisions (AF/A4LW).

3.1.1.4. Training Media: IAW T.O. 11N-45-51 series manuals and AFI 21-205 (C-FRD). Initial and Semi-Annual training will only be conducted with Type 3E trainers.

3.1.1.5. Instructor: Certified Command Disable System Instructor.

3.1.1.6. Additional Information: Per AFI 21-205 (C-FRD), Aircrew may request/receive Command Disable System training from munitions personnel during logistics shipments.

3.1.2. G-ESCORT – Escort Official Training

3.1.2.1. Purpose: All personnel who are authorized unescorted entry to limited or exclusion areas must be formally trained and certified on the duties and responsibilities of limited and exclusion area escort official duties.

3.1.2.2. Description: Use a locally developed lesson plan to conduct training and administer a test for certification. Every 12 months, recertify personnel with unescorted entry authority or when any significant change occurs in escort procedures. Use the appropriate administrative and training procedures found in AFI 31-101, Integrated Defense.


3.1.2.4. Training Media: Unit developed training, approved by the unit Weapons Safety Manager.

3.1.2.5. Instructor: The Nuclear Airlift Monitor or unit appointed instructor under the control of the unit security manager must administratively track and document the training and certification process.

3.1.3. G-INRAD – Intrinsic Radiation Training

3.1.3.1. Purpose: Training focused on intrinsic radiation hazards associated with applicable unit weapon systems.
3.1.3.2. Description: Training informs individuals of intrinsic radiation hazards and acceptable procedures that follow recommendations of installation Radiation Safety Officer, unit Radiation Safety Officer, and/or supervisor to reduce intrinsic radiation exposures below applicable limits and as low as reasonably achievable.


3.1.3.4. Training Media: IAW AFSEC/SEW training requirements and AFI 91-108.

3.1.3.5. Instructor: Instruction provided IAW AFI 91-108.

3.1.4. G-NWST – Nuclear Weapons Surety Training

3.1.4.1. Purpose: Provides standardized training for all personnel who perform nuclear surety related duties IAW AFI 91-101. Commanders and supervisors at all levels must ensure individuals receive instructor-led initial nuclear surety training and 15-month recurring nuclear surety refresher training before handling nuclear weapons, nuclear weapons systems, certified critical components, perform nuclear-related duties, or control entry into No-Lone Zones. At a minimum, individuals will receive initial nuclear surety training prior to performing nuclear-related duties and recurring training will be accomplished by the end of the 15th month thereafter.

3.1.4.2. Description: Training/testing will, at a minimum, include the standardized nuclear surety lesson plan and testing materials described in AFI 91-101. Initial and 15-month recurring nuclear surety training will cover the mandatory topics outlined in AFI 91-101 and documented.

3.1.4.3. Office of Primary Responsibility: AFSEC/SEW.

3.1.4.4. Training Media: AF and MAJCOM Nuclear Weapons Surety Training slides. After presentation, a certified nuclear surety instructor will provide a closed book test to individuals requiring a minimum passing score of 80 percent. A test score of less than 80 percent requires remedial training and retesting with a different test before that person may perform nuclear-related duties.

3.1.4.5. Instructor: Certified nuclear surety instructor (typically the wing weapons safety representative).


3.1.5. G-NWRM – Nuclear Weapons-Related Material Training

3.1.5.1. Purpose: The objective of the training is to familiarize personnel with fundamental NWRM policy, handling and accounting requirements.

3.1.5.2. Description: Training will cover the mandated AFI 20-110 requirements.

3.1.5.3. Office of Primary Responsibility: Nuclear Weapons, Missile and Munitions Division (AF/A4LW).
3.1.5.4. Training Media: NWRM Fundamentals Course hosted on Advanced Distributed Learning Service.

3.1.5.5. Frequency: At a minimum, these individuals must complete the NWRM Fundamentals Course prior to performing NWRM duties and every 12 months thereafter until no longer performing NWRM duties.

3.1.6. **G-PRP – Personnel Reliability Program Training**

3.1.6.1. Purpose: This training is specifically intended for personnel assigned to a nuclear unit with nuclear responsibilities identified in DoDM 5210.42_AFMAN 13-501.

3.1.6.2. Description: Training will cover mandated DoDM 5210.42_AFMAN 13-501 guidance and focus on Personnel Reliability Program requirements and individual responsibilities.

3.1.6.3. Office of Primary Responsibility: Air Force Strategic Deterrence and Nuclear Integration, Functional Authority Division (AF/A10-F).

3.1.6.4. Training Media: All training will, at a minimum, include the AF Standardized Personnel Reliability Program Training found on the Air Force Personnel Reliability Program website.

3.1.6.5. Frequency: Personnel Reliability Program Initial Training/Refresher Training, will be completed on a 15-month cycle and documented.

3.1.7. **G050 – PNAF Academics**

3.1.7.1. Purpose: Initial and continuation academic training for PNAF crewmembers. Training reinforces Air Force policy and guidance associated with the logistic transport and security associated with PNAF operations.

3.1.7.2. Description: Academic training focusing on specific nuclear mission requirements. Information presented trains PNAF crewmembers regarding applicable mission requirements and safety standards necessary for the accomplishment of PNAF operations. See Attachment 2 for a general course outline.

3.1.7.3. Office of Primary Responsibility: AMC/A10NA.

3.1.7.4. Curriculum Development: MDS Aircrew Training Systems in conjunction with AMC/A10NA.

3.1.7.5. Training Media: Computer Based Training.

3.1.7.6. Instructor: Instructor not required for initial or continuation training.

3.1.8. **G280 – Small Arms Training**

3.1.8.1. Purpose: To train crewmember in successful engagement of enemy threats within the range and capabilities of their assigned weapon.

3.1.8.2. Description: Course will meet the requirements of AFI 31-117, *Arming and Use of Force*, and AFI 36-2654, *Combat Arms Program*. In addition, crewmembers must ensure they meet Arming and Use of Force training requirements in AFI 31-117.

3.1.8.3. Office of Primary Responsibility: AF/A4S.
3.1.8.4. Training Media: Combat Arms Training and Maintenance.

3.1.8.5. Instructor: Qualified Security Forces Squadron Combat Arms Instructor.

3.1.8.6. Additional Information: Increased training duration (12 vs 24 months) is intended to support enhanced PNAF mission security requirements and preserve last-line of defense capabilities for the protection of nuclear cargo, especially at unplanned divert locations without pre-coordinated security. IAW AFI 36-2654, the PNAF Wing will link arming Group A aircrew firearms qualification training to an aircrew ground training cycle program with a training frequency not to exceed 12 months.

3.1.9. **M535 – Special Assignment Airlift Mission Sortie**

3.1.9.1. Purpose: To maintain a high-degree of proficiency and familiarity regarding all aspects of PNAF operations, PNAF crewmembers will fly one tasked or nuclear airlift continuation training mission simulating the transport of nuclear weapons or Class II components within the specified time period.

3.1.9.2. Description: To credit a Special Assignment Airlift Mission sortie, qualified crewmembers will accomplish one actual or training onload/offload of nuclear weapons or components. Crewmember participation should include: pre-mission planning, crew and mission briefing, security and loading procedures with host installation personnel utilizing T.O. 1C-17A-16-1, *Loading and Air Transport of Nuclear Weapon Cargo (Nonpalletized)* procedures, and transfer of custody procedures. Enforcement of the two-person concept should also be observed during loading and flight operations. Crewmembers may log this event if performing instructor or evaluator duties. See additional crewmember specific requirements.

3.1.9.3. Office of Primary Responsibility: AMC/A10NA.

3.1.9.4. Training Media: Aircraft.

3.1.9.5. Instructor: Not required for continuation training. PNAF Qualified Instructors may log training supervised.

3.1.9.6. Aircraft Commander: May credit a sortie after satisfying general description criteria and Aircraft Commander specific responsibilities. Aircraft Commander’s should review T.O. 1C-17A-16-1 loading procedures if they are not accomplished during the execution of a tasked or training mission.

Note: Due to the differences in roles and responsibilities between PNAF Aircraft Commander’s and Couriers, PNAF Aircraft Commander’s should attempt to perform at least one PNAF sortie as a primary Courier or Courier Instructor before entering their evaluation eligibility window.

3.1.9.7. Courier: Individuals should perform primary Courier duties on at least one mission leg. Areas performed should include: interaction with On-Scene Coordinator and Senior Security Representative, Sole-Vouching Authority duties, Entry Authorization List procedures, exclusion area enforcement (if applicable), and transfer of custody/required paperwork.
3.1.9.8. **Copilot:** In addition to general description criteria, PNAF copilots should perform or review Pilot Monitoring duties during simulated or actual Type-1 arrival and departure. Copilot should also perform required duties during loading operations.

3.1.9.9. **Loadmaster:** May credit a sortie after satisfying general description criteria and Loadmaster specific mission responsibilities.

3.1.10. **M299 – PNAF Loading to/from Ground**

3.1.10.1. **Purpose:** Continuation training for PNAF qualified Loadmasters only.

3.1.10.2. **Description:** Proficiency training to load Type I or simulated nuclear weapons IAW T.O. 1C-17A-16-1, “Ground Loading/Offloading - Wheeled Carrier, Internal Winch.”

3.1.10.3. **Office of Primary Responsibility:** AMC/A10NA.

3.1.10.4. **Training Media:** Aircraft.

3.1.10.5. **Instructor:** Not required for continuation training. PNAF Qualified Instructors may log training supervised.

3.1.10.6. **Additional Information:** Currency requirement may be satisfied on tasked or off-station training missions or during locally generated ground training exercises utilizing T.O. 1C-17A-16-1 procedures. Reference paragraph 2.6.4.

3.1.11. **G403 – Forklift Loading**

3.1.11.1. **Purpose:** Continuation training for PNAF qualified Loadmasters only.

3.1.11.2. **Description:** Proficiency training for loading B61 nuclear weapons IAW T.O. 1C-17A-16-1, “Alternate Onload/Offload – Forklift Loading with Ramp Toes Not Installed – Wheeled Carriers.”

3.1.11.3. **Office of Primary Responsibility:** AMC/A10NA.

3.1.11.4. **Training Media:** Aircraft.

3.1.11.5. **Instructor:** Not required for continuation training. PNAF Qualified Instructors may log training supervised.

3.1.11.6. **Additional Information:** Aircraft Commanders will receive initial/one-time Forklift Load Training during upgrade to PNAF Aircraft Commander.

3.1.11.7. **Additional Information:** Currency may be satisfied on tasked or training missions to include ground loading exercises utilizing T.O. 1C-17A-16-1 procedures.

Note: PNAF Loadmasters may be non-current for G403 and still fly tasked PNAF missions if the cargo designated for transport does not include B61 weapons.


3.1.12.1. **Purpose:** To establish training and frequency requirement for each weapon type capable of being transported by PNAF crewmembers IAW AFI 91-115. This requirement ensures crewmembers are familiar with each weapon type and loading characteristics before conducting PNAF operations.
3.1.12.2. Description: Commensurate with qualification and duty position, crewmembers will receive training on weapon types identified in AFI 91-115. Crewmembers should focus on the inherent differences in nuclear weapons type, inspection and loading procedures. Per specified crew position requirements, crewmembers may log W076A-E after conducting weapon specific inspection and loading operations IAW T.O. 1C-17A-16-1 and/or T.O. 11N-45-51 on a Special Assignment Airlift Mission sortie, off-station training mission or local training event.

3.1.12.3. Office of Primary Responsibility: AMC/A10NA.

3.1.12.4. Training Media: Weapon or training device.

3.1.12.5. Instructor: Not required for continuation training. Regaining currency will be accomplished with an Instructor certified crewmember. PNAF Qualified Instructors may log training supervised.

3.1.12.6. Additional Information: For Operations Security purposes, PNAF squadrons will develop internal procedures to track W076A-E individual currency events. W076A-E currency is established based upon the crewmember’s initial evaluation (Aircraft Commander, Courier, and Loadmaster) or certification (copilot) date.

3.1.12.7. The following hands-on training is required for each aircrew position:

3.1.12.7.1. Aircraft Commanders: Currency satisfied by accomplishment or observation of any T.O. 1C-17A-16-1 loading procedure for each weapon type. (T-1)

3.1.12.7.2. Couriers: Currency satisfied by accomplishment of weapon specific inspection procedures IAW T.O. 11N-45-51 and T.O. 1C-17A-16-1. (T-1)

3.1.12.7.3. Copilots: One-time event accomplished during Initial Copilot Certification Training. Recurring training is not required. Copilot training will consist of a general hands-on weapon overview utilizing inspection criteria in T.O. 11N-45-51. Observation of ground loading per weapon type is not required.

3.1.12.7.4. Loadmasters: Currency satisfied by accomplishment of any T.O. 1C-17A-16-1 loading procedure with each weapon type. (T-1)

Table 3.1. PNAF Aviation Resource Management System/Currency Identifiers and Recurring Training Frequencies

<table>
<thead>
<tr>
<th>ARMS/Currency ID</th>
<th>Event</th>
<th>Aircraft Commander</th>
<th>Courier</th>
<th>Copilot</th>
<th>Loadmaster</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-CDS</td>
<td>Command Disable System</td>
<td>6 Months</td>
<td>6 Months</td>
<td>6 Months</td>
<td>6 Months</td>
<td>1, 4 (T-1)</td>
</tr>
<tr>
<td>G-ESCORT</td>
<td>Escort Official</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>1 (T-1)</td>
</tr>
<tr>
<td>G-INRAD</td>
<td>Intrinsic Radiation</td>
<td>15 Months</td>
<td>15 Months</td>
<td>15 Months</td>
<td>15 Months</td>
<td>1 (T-1)</td>
</tr>
<tr>
<td>G-NWST</td>
<td>Nuclear Weapons Surety Training</td>
<td>15 Months</td>
<td>15 Months</td>
<td>15 Months</td>
<td>15 Months</td>
<td>1 (T-0)</td>
</tr>
<tr>
<td></td>
<td>Nuclear Weapons Related Material</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>1, 6 (T-1)</td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td>G-PRP</td>
<td>Personnel Reliability Program</td>
<td>15 Months</td>
<td>15 Months</td>
<td>15 Months</td>
<td>15 Months</td>
<td>1 (T-0)</td>
</tr>
<tr>
<td>G050</td>
<td>PNAF Academics</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>(T-1)</td>
</tr>
<tr>
<td>G280</td>
<td>Small Arms</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>12 Months</td>
<td>(T-1)</td>
</tr>
<tr>
<td>M535</td>
<td>Special Assignment Airlift Mission</td>
<td>6 Months</td>
<td>6 Months</td>
<td>6 Months</td>
<td>6 Months</td>
<td>(T-1)</td>
</tr>
<tr>
<td>M299</td>
<td>PNAF Loading to/from Ground</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>12 Months</td>
<td>4 (T-2)</td>
</tr>
<tr>
<td>G403</td>
<td>Forklift Loading</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>12 Months</td>
<td>4 (T-2)</td>
</tr>
<tr>
<td>W076A</td>
<td>B61</td>
<td>12 Months</td>
<td>12 Months</td>
<td>One-Time</td>
<td>12 Months</td>
<td>2, 3, 4 (T-2)</td>
</tr>
<tr>
<td>W076B</td>
<td>B83</td>
<td>12 Months</td>
<td>12 Months</td>
<td>One-Time</td>
<td>12 Months</td>
<td>2, 3, 4 (T-2)</td>
</tr>
<tr>
<td>W076C</td>
<td>W80</td>
<td>12 Months</td>
<td>12 Months</td>
<td>One-Time</td>
<td>12 Months</td>
<td>2, 3, 4 (T-2)</td>
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<tr>
<td>W076D</td>
<td>W78</td>
<td>12 Months</td>
<td>12 Months</td>
<td>One-Time</td>
<td>12 Months</td>
<td>2, 3, 4, 5 (T-2)</td>
</tr>
<tr>
<td>W076E</td>
<td>W87</td>
<td>12 Months</td>
<td>12 Months</td>
<td>One-Time</td>
<td>12 Months</td>
<td>2, 3, 4 (T-2)</td>
</tr>
</tbody>
</table>

**NOTES**

1) Non-AMC controlled training requirement. Consult identified source document to verify validity/duration of training requirement. In all instances, default to source document and specified training timeline.

2) Exceeding currency requirements for handling a specific weapon type only affects currency for that particular weapon. For example: Crewmembers non-current for W076B (B83) may still transport a B61 if they are current and qualified for W076A.

3) Non-Aviation Resource Management System tracked PNAF currency event.

4) Currency for the respective crew position may be regained while participating on a training mission or ground training exercise while under the supervision of a current and qualified PNAF instructor. (T-1)

5) W78 training is not required until a mission tasking is received IAW AFI 91-115.

6) AMC Aircrew personnel are not required to maintain continuous NWRM training currency due to infrequent mission need. Individuals will complete just-in-time training prior to missions involving NWRM if it has been greater than 12 months since completion of last training.
Chapter 4

EMERGENCY NUCLEAR AIRLIFT OPERATIONS TRAINING

4.1. ENAO Training Policy

4.1.1. To prepare Regular Air Force and Air Force Reserve C-17 and C-130 aircrew members for the successful accomplishment of emergency nuclear weapons airlift missions. Emphasis will be placed on safe and efficient operations and provide C-17 and C-130 aircrew members familiarity in weapon handling procedures and security requirements necessary for the logistics air movement of nuclear weapons during contingency operations.

4.2. Prerequisites

4.2.1. All personnel must be qualified or enrolled in a formal C-17 or C-130 aircraft qualification training course.

4.3. ENAO Aircrew Training

4.3.1. All C-17 and C-130 Regular Air Force aircrew members will be trained to execute and support ENAO.

4.3.2. Operational ENAO guidance is located in AFMAN 13-526.

4.3.3. Personnel may complete ENAO training before having a final SECRET security clearance. However, all personnel must have a SECRET clearance prior to participating in an ENAO mission.

4.3.4. ENAO training is a one-time requirement accomplished during the course of an MDS initial formal training program. (T-1) ENAO training will emphasize weapons handling, nuclear surety, and Intrinsic Radiation. Aircrew members should expect to receive enhanced or refresher training before executing an actual ENAO mission.

4.3.5. ENAO crewmembers will be trained on loading, tie-down, and off-loading operations using applicable aircraft loading manual procedures and guidance contained in the appropriate AFI 11-2MDS Vol 3, MDS Operations Procedures. (T-1) Training should familiarize crewmembers with provisions specified in T.O. 1C-17-16-1.

4.4. Testing

4.4.1. A multiple-choice closed book Computer Based Training examination will be administered after the academic presentation. Personnel will achieve an examination grade of 100-percent. Personnel attaining an examination grade of less than 100 percent will review course content for all missed questions and correct to 100 percent on subsequent examinations. (T-2)

4.4.2. Record completion date of ENAO training in the Aviation Resource Management System and/or as specified in the formal training program.

JACK WEINSTEIN, Lt Gen, USAF
DCS, Strategic Deterrence & Nuclear Integration
Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References
5 U.S.C. § 552a, Privacy Act
37 USC 301a, Incentive Pay
Public Law 92-204, Appropriation Act for 1973
Public Law 93-570§ 715, Appropriation Act for 1974
Public Law 93-294, Aviation Career Incentive Act of 1974
Executive Order 9397, Numbering System for Federal Accounts Relating to Individual Persons
DoDD 3150.02, DoD Nuclear Weapons Surety Program, IC3, 24 August 2017
DoDM 5210.42_AFMAN 13-501_AFGM2017-01, Nuclear Weapons Personnel Reliability Program, 9 December 2017
DoD Foreign Clearance Guide, Special Weapons Overflight Guide Supplement, Ch 1, 2 May 2017
AFI 11-2MDS Vol 3, MDS Operations Procedures, 17 August 2015
AFI 11-2C-17, Vol 1, C-17 Aircrew Training, 1 June 2012
AFI 11-2C-130J, Vol 1, C-130J Aircrew Training, 21 August 2012
AFI 11-2C-17, Vol 2, C-17 Aircrew Evaluation Criteria, 19 April 2005
AFI 11-202, Vol 1, Aircrew Training, 22 November 2010
AFI 11-202, Vol 2, Aircrew Standardization/Evaluation Program, 13 September 2010
AFI 11-401, Aviation Management, 10 December 2010
AFI 20-110, Nuclear Weapons-Related Material Management, 23 October 2014
AFI 21-201, Munitions Management, 3 June 2015
AFI 21-203, Nuclear Accountability, 12 May 2016
AFI 21-205, Command Disable System (CDS) (C/FRD), 22 August 2014
AFI 31-101, Integrated Defense, 5 July 2017
AFI 33-360, Publications and Forms Management, 1 December 2015
AFI 36-2654, Combat Arms Program, 13 January 2016
AFI 63-125, Nuclear Certification Program, 24 July 2017
AFI 91-115, Safety Rules for Nuclear Logistics Transport by the Prime Nuclear Airlift Force, 30 November 2016
AFMAN 13-526, Nuclear Airlift Operations, (Reference AFI 13-526 Volumes 1-4 until published)
AFMAN 33-363, Management of Records, 1 March 2008
AFPD 11-2, Aircrew Operations, 19 January 2012
AFPD 13-5, Air Force Nuclear Mission, 17 July 2018
DoD Instruction 7730.57, Aviation Incentive Pays Continuation Bonus Program, 12 Aug 2003
T.O. 00-25-107, Maintenance Assistance, October 2015
T.O. 1C-17A-16-1, Loading and Transport of Nuclear Weapon Cargo (Nonpalletized), 15 December 2015
T.O. 11N-4-1, Glossary of Nuclear Weapons Material and Related Terms, 30 July 2016
T.O. 11N-20-11 (C-RD), General Guidance and Material Hazard Information for Nuclear Weapons, Components, and Nonnuclear Weapon Designations, 19 October 2015, Change 4, 09 February 2017
T.O. 11N-45-51 (U), Transportation of Nuclear Material: General Shipping of Limited-Life Component (LLC) Data, 22 March 06, Change 7, 26 April 2017
T.O. 11N-45-51A (S-RD), Transportation of Nuclear Weapons Material: Shipping and Identification Data for Stockpile major Assemblies, 12 November 2014, Change 2, 04 April 2016

**Prescribed Forms**
None

**Adopted Forms**
AF Form 4324, *Aircraft Assignment/Aircrew Qualification Worksheet*
AF Form 847, *Recommendation for Change of Publication*
AF Form 527F, *Checklist for Nuclear Mission Support*
DD Form 175, *Flight Plan, Military*
DD Form 1801, *International Flight Plan, DoD*

**Abbreviations and Acronyms**
AF—Air Force
AFI—Air Force Instruction
AFPD—Air Force Policy Directive
AFMAN—Air Force Manual
AMC—Air Mobility Command
C—FRD—Confidential Formerly Restricted Data
COMSEC—Communications Security
DoD—Department of Defense
DoDM—Department of Defense Manual
ENAO—Emergency Nuclear Airlift Operations
HQ—Headquarters
IAW—In Accordance With
MDS—Mission Design Series
OPSEC—Operations Security
PL—Public Law
PNAF—Prime Nuclear Airlift Force
SORN—System of Record Notice
T.O.—Technical Order
U.S.—United States
USC—United States Code
Frequency

Refer to AFI 11-2C—MDS

Terms

Aircrew — The total complement of rated (pilots, navigators, air battle managers, and flight surgeons), career enlisted aviators (1AXXX Air Force Specialty Codes), and nonrated aircrew (K-, Q-, or X-prefixed Air Force Specialty Code) personnel responsible for the safe ground and flight operation of the aircraft and onboard systems, or for airborne duties essential to accomplishment of the aircraft’s mission. Includes members in initial formal training for immediate assignment to an authorized position according to AFI 65-503, US Air Force Cost and Planning Factors, or nonrated aircrew not in an aircraft’s basic crew complement, but required for the mission. Aircrew members perform their principal duties inflight and their presence is required for the aircraft to accomplish its primary tasked mission. Duties must be essential to operating the aircraft or mission systems and equipment used for completing a mission, or other duties essential to the aircraft’s mission.

Custody — The responsibility for the control, transfer, and movement of, and access to weapons and their components. Custody also includes maintaining accountability for weapons and their components. (T.O. 11N-4-1)

Loading Exercise — A training exercise evaluating weapon handling proficiency using a Bomb Dummy Unit or nuclear container with a static aircraft in which all required steps in the loading, tie-down, and off-loading of the Bomb Dummy Unit or nuclear container are performed.

Nuclear Certified Equipment — System specific common specialized or non-specialized support equipment whose design meets applicable design criteria and is nuclear certified IAW the nuclear certification process outlined in this document and identified on the Master Nuclear Certification Listing. (AFI 63-125)

Nuclear Cargo — Nuclear weapons, and Class II components containing active material prepared for logistics movement. (T.O. 11N-4-1)

Nuclear Weapon — A complete assembly (e.g., implosion type, gun type, or thermonuclear type), in its intended ultimate configuration that, upon completion of the prescribed arming, fusing, and firing sequence, is capable of producing the intended nuclear reaction and release of energy. (T.O. 11N-4-1)

PNAF — Those aircrews, aircraft, and other functions that provide for peacetime support of logistical airlift of nuclear weapons and nuclear components.

PNAF Instructor — A PNAF crewmember current and qualified as a C-17 instructor in any crew position. Example: A C-17 Instructor Pilot qualified as a PNAF Aircraft Commander will be considered as PNAF Instructor for the PNAF Aircraft Commander position.

Unit — A military organization constituted by Headquarters Air Force or designated by a MAJCOM, Field Operating Agencies or Direct Reporting Unit (AFI 38-101)
Attachment 2

PRIME NUCLEAR ARLIFT FORCE (PNAF) AIRCREW ACADEMIC TRAINING

A2.1. Purpose. To prepare aircrew members for successful completion of nuclear weapons airlift missions. Emphasis will be placed on safe and efficient operation and compliance with required safety directives. AFI 13-526 Vol 1, Prime Nuclear Airlift Force Operations establishes guidance for nuclear airlift missions and standard procedures to be used by PNAF aircrews, as well as any unit associated with the logistical movements of nuclear weapons and related components.

A2.2. Contents. As a minimum, PNAF aircrew academic training will cover the subjects below. Additional items may be added, as required.

A2.2.1. Administration
   A2.2.1.1. Protecting Classified Information
   A2.2.1.2. Releasing Information
   A2.2.1.3. Nuclear Airlift Monitor
   A2.2.1.4. PNAF Safety Rules
   A2.2.1.5. Logistics Movement and Handling of Nuclear Cargo
   A2.2.1.6. Mission Tasking

A2.2.2. Mission Management
   A2.2.2.1. Planning and Scheduling Criteria
   A2.2.2.2. Air Refueling
   A2.2.2.3. Mission Planning/Coordination
   A2.2.2.4. Mission Setup Message (Content, Classification, and Distribution)
   A2.2.2.5. Changes to Mission Setup Message
   A2.2.2.6. Additional Airlift Requirements
   A2.2.2.7. Passengers, Mission Essential Personnel, and Flying Crew Chief
   A2.2.2.8. PNAF Structure
   A2.2.2.9. PNAF Aircrew Qualification and Certification
   A2.2.2.10. Aircrew Compliment
   A2.2.2.11. Aircrew Replacement, Staging, and Crew Swap

A2.2.3. Pre-departure Requirements
   A2.2.3.1. Aircrew Mission Planning
   A2.2.3.2. Predeparture Briefing
   A2.2.3.3. PNAF Aircrew Nuclear Mission Kits
   A2.2.3.4. Aircrew/Security Team Arming
A2.2.4. En Route Operations
   A2.2.4.1. Special Considerations when Transporting Nuclear Cargo
   A2.2.4.2. Aircraft Preparation
   A2.2.4.3. Two-Person Concept
   A2.2.4.4. Cargo Acceptance and Transfer
   A2.2.4.5. Loading and Offloading Procedures
   A2.2.4.6. Ground Emergencies
   A2.2.4.7. Procedures for Cross-load Transfer of Nuclear Cargo
   A2.2.4.8. Departure Procedures
   A2.2.4.9. Command and Control Center Coordination
   A2.2.4.10. Arrival Procedures
   A2.2.4.11. Divert to Alternate Airfield
   A2.2.4.12. Emergency Procedures
   A2.2.4.13. Border Clearance Procedures
   A2.2.4.14. Crew Rest Procedures
   A2.2.4.15. Itinerary Deviation
   A2.2.4.16. Aircrew Complement
   A2.2.4.17. Aircrew Replacement and Staging

A2.2.5. Security
   A2.2.5.1. Threat and Vulnerability
   A2.2.5.2. Types of Security
   A2.2.5.3. Protection Standards
   A2.2.5.4. Type I Aircraft Security Requirements
   A2.2.5.5. Type II Aircraft Security Requirements
   A2.2.5.6. Sanitized Aircraft
   A2.2.5.7. Emergency Diverts of Nuclear-Laden Aircraft
   A2.2.5.8. Sealing Aircraft

A2.2.6. Custody Transfer Procedures
   A2.2.6.1. Courier Designation and Certification
   A2.2.6.2. Persons Authorized to Sign for Nuclear and DoD Nuclear-Related Cargo
   A2.2.6.3. Courier Responsibilities
   A2.2.6.4. Documentation
A2.2.6.5. Replacement Courier

A2.2.7. Nuclear Airlift Mission Support
  A2.2.7.1. Nuclear Airlift Support
    A2.2.7.1.1. Responsibilities
    A2.2.7.1.2. Command and Control
    A2.2.7.1.3. Intelligence Support

A2.2.8. Logistics Support
  A2.2.8.1. Aircraft Selection and Preparation
  A2.2.8.2. General Maintenance and Servicing
  A2.2.8.3. Enroute Maintenance
  A2.2.8.4. Safety Precautions and Personnel Requirements

A2.2.9. Post Mission Requirements
  A2.2.9.1. Special Assignment Airlift Mission Report
  A2.2.9.2. AF Form 527F, Checklist for Nuclear Mission Support

A2.2.10. Reporting Nuclear Mishaps
  A2.2.10.1. Nuclear Aircraft Accidents, Incidents, or Deficiencies
    A2.2.10.1.1. Flag Words
Attachment 3

EMERGENCY NUCLEAR AIRLIFT OPERATIONS (ENAO) COURSE OUTLINE

A3.1. Purpose. To prepare aircrew members for the successful accomplishment of emergency nuclear weapons airlift missions. Emphasis will be placed on safe and efficient operation. Training guidance will conform to procedures outlined in AFI 13-526 Vol 1, Prime Nuclear Airlift Force Operations and reference procedures specified in C-17A or C-130 11-2MDS-Vol 3, ENAO chapters.

A3.2. Contents. The emergency nuclear weapons airlift aircrew training course will include, as a minimum, the subjects listed below. Additional items may be added, as required.

A3.2.1. Introduction: Airlift of Nuclear Weapons/ENAO
A3.2.2. ENAO Fundamentals and Mission Description
  A3.2.2.1. Key ENAO Planning Publications
  A3.2.2.2. ENAO’s Relevance to the U.S. Nuclear Enterprise
  A3.2.2.3. DoD Nuclear Weapon System Safety Standards (DoD Directive 3150.02, DoD Nuclear Weapons Surety Program)
  A3.2.2.4. Nuclear Weapons System Safety Rules
  A3.2.2.5. Mishap and Hazard Reporting
  A3.2.2.6. Mishap and Hazard Reports Types
A3.2.3. Key ENAO Concepts
  A3.2.3.1. Nuclear Surety
  A3.2.3.2. Two-Person Concept
  A3.2.3.3. As Low As Reasonably Achievable Standards
  A3.2.3.4. Custody Procedures
  A3.2.3.5. Command Disablement System Procedures
A3.2.4. Crew Selection and Mission Preparation
  A3.2.4.1. Crew Complement
  A3.2.4.2. Mission Planning Considerations
    A3.2.4.2.1. Purpose of the Mission
    A3.2.4.2.2. Classification of the Mission, Cargo, and Locations
    A3.2.4.2.3. Itinerary and Location Support Requirements
    A3.2.4.2.4. T.O. 11N-20-11 Overview
    A3.2.4.2.5. Restrictions on Transporting General Cargo or Passengers
    A3.2.4.2.6. Exclusion Area, Two Person Concept, and Security Requirements
    A3.2.4.2.7. Personnel Authorized to Sign for Nuclear Cargo
A3.2.4.2.8. Intelligence and Threat Analysis Considerations
A3.2.4.2.9. DoD Foreign Clearance Guide, Special Weapons Overflight Guide Supplement Overview
A3.2.4.2.10. Airborne Intercept Procedures
A3.2.4.2.11. Cargo Jettison Considerations
A3.2.5. ENAO Operations Security (OPSEC) and Communications Security (COMSEC) Procedures
  A3.2.5.1. Mission Compromise Considerations
  A3.2.5.2. OPSEC/COMSEC Mitigation Measures
    A3.2.5.2.1. ENAO Mission “Need to Know” Criteria
    A3.2.5.2.2. ENAO Mission Compromise Procedures
A3.2.6. ENAO Flight Planning Requirements
  A3.2.6.1. Route of Flight
  A3.2.6.2. DD Form 175, Military Flight Plan
  A3.2.6.3. DD Form 1801, DoD International Flight Plan
A3.2.7. ENAO Security Requirements
  A3.2.7.1. Nuclear Security Fundamentals Introduction
  A3.2.7.2. Types of Nuclear Security
  A3.2.7.3. Aircraft Sanitization Requirements and Procedures
  A3.2.7.4. Exclusion Area and Entry Control Point Procedures
A3.2.8. ENAO Cargo Loading Requirements
  A3.2.8.1. Shipper’s Briefing
  A3.2.8.2. Fire Fighting Requirements
  A3.2.8.3. Cargo Loading Procedures
  A3.2.8.4. Custody Transfer
  A3.2.8.5. Hot Departure
A3.2.9. En route Procedures
  A3.2.9.1. Special Weapons Overflight Guide Route of Flight
  A3.2.9.2. 30-Minute-Out Call
A3.2.10. Hot Arrival and Download Procedures
  A3.2.10.1. Courier Team Deployment
  A3.2.10.2. Offload Procedures
A3.2.11. Emergency Procedures
A3.2.11.1. Divert Procedures
A3.2.11.2. Jettison
A3.2.11.3. Hostile Force
A3.2.11.4. Fire/Dropped Item
A3.2.12. Maintenance and Servicing
   A3.2.12.1. Aircraft Jacking
   A3.2.12.2. Refueling and Servicing Oxygen