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AIR FORCE SPACE COMMAND**



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Safety

**AIR FORCE NUCLEAR WEAPONS
SURETY PROGRAM**

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The OPR for this supplement is MSgt Martin L. Reynolds AFSPC/SEWN. This supplement implements and extends the guidance of Air Force Instruction (AFI) 91-101, ***Air Force Nuclear Weapons Surety Program***. The AFI is published word-for-word without editorial review. Air Force Space Command (AFSPC) supplement material is indicated in bold face. This supplement describes AFSPC's procedures for use in conjunction with the basic AFI. It applies to Air Force Space Command and all subordinate units with a mission involving operations, maintenance, security, or logistics movement of nuclear weapons or certified critical components. It does not apply to the Air Force Reserve and Air National Guard. Send a copy of NAF or unit supplements to HQ AFSPC/SEW, 150 Vandenberg St., Suite 1105, Peterson AFB CO 80914-4260, for final approval before publication. Send proposed changes to the same address. Upon receipt of this integrated supplement discard the Air Force basic publication.

SUMMARY OF REVISIONS

This publication defines nuclear surety program responsibilities for NAF weapons safety managers, installation commanders, installation staff officers, unit squadron commanders, supervisors, wing weapons safety managers and unit weapons safety representatives. Paragraphs 2.11.1.1 and 2.11.1.2 define annual nuclear surety inspection requirements. Paragraph 2.19.3 adds a Chief of Safety inspection requirement. Paragraph 2.16 defines nuclear surety training requirements. Paragraph 2.17 adds nuclear surety council requirements. This supplement has been revised in its entirety and should be completely reviewed.

2.5. Numbered Air Force (NAF) Weapons Safety Managers (WSM): Act as focal point for matters pertaining to the NAF nuclear surety program.

2.5.8. (Added) Act as focal point for matters pertaining to the NAF nuclear surety program.

2.5.9. (Added) Coordinate on all NAF level operations, exercises, and publications that affect nuclear surety.

2.5.10. (Added) Staff and forward recommended changes to applicable weapon system safety rules (WSSR) to HQ AFSPC/SEW.

2.5.11. (Added) Evaluate corrective actions taken by units in response to nuclear surety discrepancies. (I.e. Majcom I.G. or Higher Headquarters Inspections).

2.5.12. (Added) Keep the nuclear surety training program current, provide timely updates to units.

2.6. Installation Commanders: Appoint a full-time weapons safety manager (WSM) to perform nuclear surety duties as part of his/her responsibilities. Notify HQ AFSPC/SEW and NAF/SEW when a new WSM is appointed. Assigned personnel should have at least two year retainability to the wing weapons safety staff.

2.7. Installation Staff Officers: Base CE facility maintenance/infrastructure section will provide the munitions production control function a copy of facility hoist, lightning protection system (LPS), and static ground inspection results. The nuclear certified hoist inspection reports shall provide confirmation of each hoist having passed all items listed in AFOSH STD 91-46, *Materials Handling and Storage Equipment*. On LPS and static ground inspection reports, include all requirements identified in AFI 32-1065, *Grounding Systems* under Record keeping and Review.

2.8. Unit/Squadron Commanders: Appoint, in writing, weapons safety representatives (WSR) with one year of retainability. Direct the WSR to contact the WSM for and get WSR training within 30 days.

2.8.5. (Added) Establish frequencies for nuclear surety spot inspections to be done by the WSR. Ensure these inspections cover all aspects of the unit's nuclear mission.

2.8.7. (Added) AFSPC nuclear units located on non-AFSPC bases will comply with the AFSPC Nuclear Surety Program.

2.8.8. (Added) Develop local notification procedures to inform the WSM of any occurrence that could degrade nuclear surety.

2.8.9. (Added) Ensure WSR's are trained within 30 days after appointment.

2.8.10. (Added) Insure unit developed weapons safety related CLs, LPs, Oplans, etc. are coordinated with the WSM and approved by the commander both initially and annually.

2.9. Supervisors: Ensure only authorized or certified equipment and Air Force-approved technical orders, checklists, and procedures are used with nuclear weapons, nuclear weapon systems, and certified critical components.

2.9.7. (Added) Include Two-Person Concept compliance, the location of all applicable no-lone zones, location of certified critical components within the no-lone zone, emergency procedures, and INRAD if appropriate as part of each pretask briefing

2.9.8. (Added) Disseminate mishap prevention information.

2.11. Wing Weapon Safety Managers: The wing WSM will inspect each wing organizational unit having an impact on the wing's nuclear capability to determine the status of its nuclear surety program. The WSM is not the expert in all areas; therefore, wing and squadron functional experts may assist in these inspections. As a minimum, inspect all applicable nuclear surety inspection areas and program elements listed in AFI 90-201, *Inspector General Activities*, Chapter 3.

2.11.1.1. (Added) The WSM will inspect each wing organizational unit in one effort and document this annual inspection IAW AFI 91-202, *The US Air Force Mishap Prevention Program*. Missile alert facil-

ities and launch facilities inspections can be performed at separate times from parent unit inspections. The WSM may combine the annual NSI with other safety inspections required by AFI 91-202.

2.11.1.2. (Added) Visit all applicable areas and facilities. The inspection must include representative samples of daily operations (weapon loading/mating, weapon maintenance, command post operations, convoys, logistics movements, missile crew operations, coding operations, security etc), as well as management programs (personal reliability program, nuclear surety training etc.).

2.11.1.3. (Added) Look for modifications to existing facilities that impact nuclear surety or explosive safety requirements. Ensure Unit Safety Representatives do the same.

2.11.15. (Added) Be the wing focal point for nuclear mishap reporting. The WSM is responsible for determining if a deficiency or an Unsatisfactory Report (UR) qualifies as a Dull Sword and the timely submission of the report. Investigate and report nuclear mishaps according to AFI 91-204, ***Investigating and Reporting US Air Force Mishaps***. Review nuclear mishap reports from other units and send pertinent sanitized reports to subordinate units for crossfeed, training, and corrective action.

2.11.16. (Added) Spot check equipment/software designated for use with nuclear weapons to ensure it is listed in T.O. 00-110N-16, ***USAF Nuclear Certified Equipment and Software***. Report any uncertified equipment or software found designated for use with nuclear weapons and not listed in T.O. 00-110N-16 through applicable safety channels.

2.11.17. (Added) Serve as central point of contact on all nuclear surety matters within the wing.

2.11.18. (Added) Full-time WSMs must attend the AETC Weapons Safety Course (L3AZR2W071), preferably before they assume their jobs. Schedule this course through HQ AFSPC/SEF.

2.11.19. (Added) Publish directives outlining wing-unique nuclear surety requirements to include supplements when appropriate.

2.11.20. (Added) Review quality-assurance summaries and standardization evaluation findings to identify nuclear surety trends or problem areas. Work with WSRs and commanders to correct problems and reverse unfavorable trends.

2.11.21. (Added) Train unit Nuclear Surety Representatives on MAJCOM-unique items and program management philosophy prior to appointment when possible, but no later than 30 days after appointment.

2.11.22. (Added) The WSM will either develop local nuclear surety inspection checklists or supplement AFSPC provided checklists to suit unit needs. Provide copies of checklists to unit representatives to aid in their inspection program.

2.11.23. (Added) Be the office of primary responsibility for the Nuclear Surety Council.

2.11.24. (Added) Provide nuclear surety education and publicity programs. Include pertinent nuclear mishap reports and other mishap prevention information for use in subordinate unit nuclear surety education programs.

2.11.25. (Added) Coordinate with the base fire chief to ensure compliance with T.O. 11N-20-11, ***General Fire Fighting Guidance***.

2.11.26. (Added) Maintain a viable safety education and publicity program.

2.11.27. (Added) Review summaries of quality assurance findings related to nuclear surety to identify trends and problem areas. Work with squadron nuclear surety representatives and commanders to correct any problems discovered and to reverse unfavorable trends.

2.11.28. (Added) Review deficiency reports, AFTO Forms 22 **Technical Manual (TM) Change Recommendation and Reply** and AFTO Forms 27, **Preliminary Tech Order (PTO) Pub Change Request (PCR)/TO Verification Record/Approval**, for nuclear surety implications prior to being sent off base.

2.11.29. (Added) Attend periodic CES Work Request Review Board Meetings.

2.12. Unit Weapon Safety Representatives: Ensure documentation of initial and annual WSM coordination and commander approval is maintained.

2.12.8. (Added) Publish nuclear surety directives and supplements, as necessary.

2.12.9. (Added) Keep the commander and staff informed of mishaps, pertinent DULL SWORDS, changes to applicable nuclear weapon system safety rules, and other related nuclear surety matters.

2.12.10. (Added) Ensure notification procedures are in place to inform the safety staff of incidents or mishaps that could impact nuclear surety.

2.12.11. (Added) Maintain a viable safety education and publicity program.

2.12.12. (Added) Review summaries of quality assurance findings related to nuclear surety to identify trends and problem areas. Work with squadron nuclear surety representatives and commanders to correct any problems discovered and to reverse unfavorable trends.

2.12.13. (Added) Conduct or assist the WSM in nuclear mishap investigating and reporting.

2.12.14. (Added) Review nuclear mishap reports forwarded to the unit from the safety office. If the deficiency exists within the unit, verify adequacy of corrective action to prevent recurrence.

2.12.15. (Added) Assist the Wing WSM and Base PRP monitor in reviewing the squadron's PRP.

2.12.16. (Added) Accompany the wing WSM during inspections of the WSRs respective unit.

2.16. Training: Units must supplement higher-headquarters nuclear surety lesson plans to ensure coverage of local requirements and for currency with nuclear surety guidelines. Lesson plans used to conduct nuclear surety training must be approved by the NAF.

2.16.4.1. (Added) Coordinate locally developed nuclear surety lesson plans and forward to NAF/SEW for approval.

2.16.4.2. (Added) Individuals overdue Nuclear Surety Training (NST) will not perform duties as part of a two-person concept team or be placed in direct security support of nuclear weapons or critical components. If a member is TDY and goes overdue NST, the unit must have positive measures in place that will ensure individuals are prohibited from performing duties as part of a two-person concept team or be placed in direct security support of nuclear weapons or critical components. Commanders should consider suspending members available for duty from PRP until completion of NST.

2.17. Nuclear Surety Councils: Nuclear surety councils meet, as a minimum, semi-annually and more frequently at the discretion of the wing commander. Comply with the minimum requirements for participants listed in the basic instruction. The commander may combine the nuclear surety council and minutes with other unit safety councils.

2.17.1.6. (Added) The following agenda topics, as a minimum, must be discussed at the nuclear surety council meeting when applicable; unit nuclear mishap experiences since the previous meeting; mishap reports and deficiencies from units with a similar mission; new or revised directives that apply to nuclear

surety; results of NSIs, SAVs, unit annual inspections, maintenance evaluation results, IG crossfeeds; any manning problems; PRP problem areas; status of nuclear surety related work requests.

2.17.1.7. (Added) Tenant unit nuclear surety councils will ask for host unit representation according to the host tenant agreement and mission responsibility. When practical, commanders should combine the tenant council with the host unit council. Upon request, host or tenants units provide attendees at counterpart unit nuclear surety councils.

2.19. (Added) Wing Chief of Safety :

2.19.1. (Added) Staff and forward recommended changes to the Weapon System Safety Rules (WSSR) to HQ AFSPC/SEW.

2.19.2. (Added) Evaluate the adequacy of corrective action taken by units in response to discrepancies noted in the nuclear surety area. (Defense Threat Reduction Agency (DTRA), NSI, SAV, and Annual/Spot Inspections.)

2.19.3. (Added) Accompany the WSM on a minimum of one formal annual unit nuclear surety inspection and out brief. Chief of Safety inspection focus should be on area(s) defined in paragraph 2.11.1.2.

2.19.4. (Added) Attend and be POC for the wing nuclear surety council meetings.

2.19.5. (Added) Ensure the wing nuclear surety program is managed during the WSM absence.

Terms:

(Added) Opportunity - is the product of two factors, time and physical proximity. The value of the physical proximity factor will always be zero or one because a person either is or is not in a physical position to tamper with or damage the weapon, weapon system or certified critical component. The value of the time factor is subjective. It depends on how much time a person had near the component and the degree of difficulty involved in tampering with it. If a person is in physical proximity, but has insufficient time to perform an incorrect act or unauthorized procedure, that person did NOT have opportunity. Similarly, if a person had ample time, but was not in physical proximity, there was no opportunity. A local interpretation must be made for each case regarding the time factor, but no physical proximity means no opportunity, regardless of the amount of time involved.

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