



Safety

**NUCLEAR SURETY INSPECTION
CHECKLIST-WEAPONS SAFETY**

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This publication implements Air Force Policy Directive (AFPD) 91-1, *Nuclear Weapons and Systems Surety*. This inspection supports policy in AFI 90-201, *Inspector General Activities* and the USAFE Supplement 1, inspection program. This checklist supports guidance in AFI 91 series publications and appropriate USAFE Supplements. It applies to all United States Air Forces in Europe (USAFE) units and members as indicated in paragraph 2. It does not apply to Air National Guard (ANG) or Air Force Reserve Command (AFRC), units. This checklist is intended for inspection use. Send comments and suggested improvements to this publication on AF IMT 847, **Recommendation for Change of Publication**, to USAFE Safety Directorate, Weapons Safety (HQ USAFE/SEW), Unit 3050 Box 165, APO AE 09094-0165. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 37-123, Management of Records and disposed of in accordance with the Air Force Records disposition Schedule (RDS) located at: <https://afrims.amc.af.mil>. Ensure that any local instructions or supplements are created in accordance with AFI 33-360 Volume 1, *Air Force Content Management Program-Publications*.

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1. General. As a minimum, units should use this checklist in conjunction with the annual Unit Self-Assessment. The objective is to identify deficiencies, which preclude attainment of required capabilities. Units can supplement this publication to add internal compliance items. Users may add any item(s), which in the exercise of good judgment requires examination. This checklist may be used in whole or in part by higher headquarters (HHQ) during visits, exercises, and/or inspections. The items listed do not constitute the order nor limit the scope of an inspection/ assessment.

1.1. Core Compliance Guide Items (CCGI) and Compliance Guide Items (CGI). Items identified by functional managers to prioritize command requirements and to allow the Inspector General (HQ USAFE/IG) inspectors to assess criticality of deficiencies.

1.1.1. CCGI. Items identified by HQ USAFE directorates and functional managers as key result areas for successful mission accomplishment including, but not limited to, items where non-compliance could result in serious injury, loss of life, excessive cost, litigation or affect system reliability. These requirements may be mandated by law, Executive Order, Department of Defense (DoD) directive, safety or Air Force and USAFE strategic plans. CCGIs will be referred to as significant guide items requiring direct IG evaluation. Upper case and bold letters are used to identify CCGIs.

1.1.2. CGI. CGI are areas that require special vigilance and are important to the overall performance of the unit. Non-compliance could result in some negative impact on mission performance but is not likely to result in injury, unnecessary cost, or litigation. Standard sentence case is used to identify CGIs.

2. Applicability. All items in this inspection guide are assigned an applicability code designating which type of unit the item applies. The applicability codes are defined in [Table 1](#).

Table 1. Inspection Applicability Codes.

Applicability Code	
Code	Applies To
1	HQ USAFE
2	Numbered Air Forces (NAF)
3	Main Operating Base (MOB): (Aviano, Incirlik, Lakenheath, Ramstein)
4	Air Support Operations Group (ASOG): (including associated Air Support Operations Squadrons (ASOS) and weather detachments - Heidelberg)
5	Munitions Support Squadron (MUNSS): (Buechel, Ghedi, Kleine Brogel, Volkel)
6	Munitions Squadrons (MUNS): (Camp Darby, Ramstein and Welford)
7	Air Base Squadron/Air Base Group/Group/Combat Support Wing with a full-time safety staff (Fairford, Molesworth/Alconbury, Moron, Keflavik)
8	Communication Sites (Croughton)
9	USAFE Postal Activities
10	USAFE Joint Support Squadron and Associated Detachments

2.1. IMT Adopted. AF IMT 847, **Recommendation for Change of Publication.**

Table 2. Nuclear Surety Inspection Items - Weapons Safety.

Item Number	Item	Reference	Applicability Code	Yes/No
1.	AFI 91-101 <i>Air Force Nuclear Weapons Surety Program</i>			
1.1.	Did the commander implement local procedures to:			
1.1.1.	PROHIBIT DIRECT OVERFLIGHT OF WEAPONS MOVEMENTS, NUCLEAR LOADED AIRCRAFT, AND AIRCRAFT SHELTERS WITH NUCLEAR WEAPONS INSIDE AND NOT SECURED IN A LOCKED WEAPONS STORAGE AND SECURITY SYSTEM (WS3) VAULT WITHIN THAT AIRSPACE CONTROLLED BY THE BASE?	AFI 91-101, para 1.3.4.1.	3, 5	
1.1.2.	ENSURE AIRCRAFT WITH FORWARD FIRING ORDNANCE ARE NOT PARKED POINTED TOWARD PRIME NUCLEAR AIRLIFT FORCE (PNAF) FLIGHTLINE OPERATIONS?	AFI 91-101, para 1.3.4.2.	3, 5	
1.1.3.	Ensure aircraft with forward firing ordnance are limited, to the maximum extent possible, from sweeping across PNAF flightline operations?	AFI 91-101, para 1.3.4.3.	3, 5	
1.1.4.	PROHIBIT DIRECT OVERFLIGHT OF PNAF AIRCRAFT DURING GROUND OPERATIONS WITHIN AIRSPACE CONTROLLED BY THE BASE?	AFI 91-101, para 1.3.4.4.	3, 5	
1.1.5.	Ensure weapons safety managers attended the mandatory in-residence USAFE Nuclear College courses?	AFI 91-101 USAFE SUP1, Table 2.1.	3, 5	
1.1.6.	Ensure all MUNSS personnel assigned to a Personnel Reliability Program (PRP) position attended initial Nuclear Surety training at the Nuclear College?	AFI 91-101 USAFE Sup1, para 2.3.1.3.2.1.	5	
1.1.7.	Ensure weapons safety maintains a list of qualified surety instructors who have completed in residence Main Operating Base (MOB) surety training?	AFI 91-101 USAFE Sup1, para 2.3.1.3.2.2.	3	

Item Number	Item	Reference	Applicability Code	Yes/No
1.1.8.	ENSURE THE UNIT OBTAINED HQ USAFE/SEW COORDINATION ON ALL LOCALLY-DEVELOPED WORK CARDS, CHECKLISTS, JOB GUIDES AND PAGE SUPPLEMENTS IMPACTING NUCLEAR SURETY THAT ARE DERIVED FROM AIR FORCE TECHNICAL ORDERS?	AFI 91-101 USAFE Sup1, para 2.4.11.	3, 5	
1.2.	Does the unit civil engineering staff:			
1.2.1.	PERFORM TIMELY INSPECTIONS, TESTS, AND MAINTENANCE ON FACILITIES AND EQUIPMENT USED WITH NUCLEAR WEAPONS?	AFI 91-101, para 2.3.5.3.	3, 5	
1.2.2.	Coordinate plans for building or modifying nuclear weapons facilities?	AFI 91-101, para 2.3.5.4.	3, 5	
1.2.3.	Ensure fire protection personnel are trained to fight fires involving nuclear weapons? Specific training guidance contained in TO 11N-20-11, <i>General Firefighting Guidance</i> or ELO-1, <i>Host Nation Firefighting Guidance</i> for the MUNSS?	AFI 91-101 para 2.7.5.1.	3, 5	
1.3.	Does the Installation Commander (host or parent wing commander):			
1.3.1.	Ensure knowledgeable and qualified personnel are assigned to the weapons safety staff?	AFI 91-101 para 2.6.1.	3, 5	
1.3.2.	ENSURE SENIOR LEADERSHIP EMPHASIS ON MISHAP PREVENTION?	AFI 91-101 para 2.6.2.	3, 5	
1.3.3.	ENSURE NUCLEAR SURETY DEFICIENCIES ARE IDENTIFIED, INVESTIGATED, CORRECTED, AND REPORTED?	AFI 91-101 para 2.6.3.	3, 5	
1.3.4.	ENSURE PLANS AND PROCEDURES ARE DEVELOPED TO SUPPORT ALL TASKED NUCLEAR MISSIONS?	AFI 91-101 para 2.6.4.	3, 5	
1.3.5.	Develop and provide nuclear surety policy and guidance for the MUNSS as applicable?	AFI 91-101 USAFE Sup1, para 2.6.4.	5	

Item Number	Item	Reference	Applicability Code	Yes/No
1.3.6.	If interim policy supplementing nuclear surety-related directives, Air Force 91-100 series publications, are issued by formal memorandum from the wing commander to the MUNSS, is it replaced within 120 days by official publication or supplement? If 120 days is exceeded, the interim policy remains in effect for an additional 60 days (for a total of 180 days). At this time is the policy automatically rescinded or replaced by either a new policy letter from the wing commander or an official publication?	AFI 91-101 USAFE Sup1, para 2.6.4.2.	5	
1.3.7.	Establish procedures for reviewing local regulations, operating instructions, plans, and other directives that affect nuclear surety before they are implemented?	AFI 91-101 para 2.6.6 & 2.7.1.2.	3, 5	
1.3.8.	Ensure full-time Weapons Safety Managers (WSM) are not assigned additional tasks that detract from their primary safety duties?	AFI 91-101 para 2.6.8.	3	
1.4.	Have supervisors of personnel involved in nuclear weapons or related tasks ensured their personnel are qualified by taking action to:			
1.4.1.	Emphasize reporting of all nuclear deficiencies?	AFI 91-101, para 2.9.3.	3, 5	
1.4.2.	Include nuclear surety as part of each pre-task briefing?	AFI 91-101, para 2.9.2.	3, 5	
1.5.	Are full-time weapons safety personnel trained on USAFE-unique items and nuclear surety program management within 90 calendar days after assuming their position?	AFI 91-101 USAFE Sup1 para 2.4.7.	3	
1.6.	Does the wing weapons safety office ensure the following areas are inspected/ accomplished as they apply to a unit's nuclear mission responsibilities?	AFI 91-101 USAFE Sup1 para 2.11.1.6.		
1.6.1.	Nuclear Surety?	AFI 91-101	3, 5	
1.6.2.	Nuclear Certified Equipment?	AFI 91-103 & AFI 63-125	3, 5	
1.6.3.	Tamper Control and Detection?	AFI 91-104	3, 5	
1.6.4.	Troubleshooting and Maintenance Criteria?	AFI 91-107	3, 5	
1.6.5.	Intrinsic Radiation?	AFI 91-108	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
1.6.6.	United States (US)/Non-US North Atlantic Treaty Organization (NATO) Strike Aircraft Safety Rules?	AFI 91-112 & AFI 91-113	3, 5	
1.6.7.	Logistics Transport Safety Rules?	AFI 91-115	3, 5	
1.6.8.	Explosive Safety as it pertains to Nuclear Surety?	AFMAN 91-201	3, 5	
1.6.9.	Nuclear Mishap and Deficiency Reporting?	AFI 91-204 & AFMAN 91-221	3, 5	
1.6.10.	Unit's compliance with other nuclear surety-related standards as determined applicable by the wing?	AFI 91-101 USAFE Sup1 para 2.11.1.6.12.	3, 5	
1.6.11.	Perform annual nuclear surety inspections on units and offices with nuclear surety missions at their wing and any MUNSS supported by the wing?	AFI 91-101 USAFE Sup1, para 2.11.1.	3, 5	
1.6.12.	Complete annual inspection within a single year?	AFI 91-101 USAFE Sup1 para 2.11.1.2.	3, 5	
1.6.13.	Release reports to the inspected unit within two weeks following the inspection?	AFI 91-101 USAFE Sup1 para 2.11.1.5.	3, 5	
1.6.14.	Check the adequacy and completeness of corrective actions for nuclear surety problems found during Nuclear Surety Inspections (NSI) and Staff Assistance Visits (SAV)?	AFI 91-101 para 2.11.2.	3, 5	
1.6.15.	Conduct and/or assist in nuclear safety reporting according to AFI 91-204, <i>Safety Investigations and Reports</i> & AFMAN 91-221, <i>Weapons Safety Investigations and Reports</i> ?	AFI 91-101 USAFE Sup1 para 2.11.3.	3, 5	
1.6.16.	Review and disseminate information from nuclear mishap and deficiency reports for crossfeed and training?	AFI 91-101 para 2.11.4.	3, 5	
1.6.17.	Keep the commander, staff and supervisors informed of changes to nuclear surety program?	AFI 91-101 para 2.11.5.	3, 5	
1.6.18.	Attend Base level PRP meetings?	AFI 91-101 para 2.11.7.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
1.6.19.	Perform spot inspections on areas involved with nuclear surety according to AFI 91-202, <i>The US Air Force Mishap Prevention Program</i> , and as supplemented?	AFI 91-101 USAFE Sup1, para 2.11.10.	3, 5	
1.6.20.	REVIEW ALL LOCALLY DEVELOPED CHECKLISTS, INSTRUCTIONS, OPERATING PROCEDURES, AND PLANS THAT IMPACT NUCLEAR SURETY?	AFI 91-101 para 2.11.14.	3, 5	
1.6.21.	PROVIDE OR ENSURE SENIOR OFFICERS DESIGNATED TO PERFORM ON-SCENE COORDINATOR (OSC) DUTIES FOR PRIME NUCLEAR AIRLIFT FORCE (PNAF) MISSIONS ARE PROPERLY TRAINED?	AFI 91-101 USAFE Sup1, para 2.11.15.	3, 5	
1.6.22.	Ensure unit safety representatives are trained on their nuclear surety duties within ninety days of their assignment? This training should be tailored to fit the unit's role in the nuclear surety mission.	AFI 91-101 USAFE Sup1, para 2.11.16.	3	
1.7.	AFTER TRAINING, ARE INDIVIDUALS GIVEN A CLOSED-BOOK TEST IN WHICH THEY MUST ANSWER 80 PERCENT CORRECTLY PRIOR TO PERFORMING NUCLEAR-RELATED DUTIES?	AFI 91-101, para 2.16.1.	3, 5	
1.8.	ARE INDIVIDUALS WHO FAIL TO CORRECTLY ANSWER 80 PERCENT, RETRAINED AND RETESTED WITH A DIFFERENT TEST IN WHICH THEY MUST ANSWER 80 PERCENT CORRECTLY PRIOR TO PERFORMING NUCLEAR-RELATED DUTIES?	AFI 91-101, para 2.16.1.	3, 5	
1.9.	Is the initial and 15 month recurring nuclear surety training documented for each person? Also reference HQ AFSC/SEW Policy Change, Air Force Nuclear Weapons Surety Program Dated 21 Feb 2003.	AFI 91-101, para 2.16.1.	3, 5	
1.10.	INDIVIDUAL OVER-DUE 15 MONTH REFRESHER TRAINING. HAS THE UNIT IMPLEMENTED POSITIVE MEASURES TO ENSURE INDIVIDUALS DO NOT PERFORM SURETY DUTIES UNTIL NUCLEAR SURETY REFRESHER TRAINING IS ACCOMPLISHED (OR EMERGENCY ACTION AND COMMUNICATIONS SECURITY (COMSEC) TWO PERSON CONTROL (TPC) TEAM PERSONNEL RE-ACCOMPLISH THEIR TRAINING REQUIREMENTS)?	AFI 91-101 USAFE Sup1, para 2.16.5.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
1.11.	HAVE ALL PRP CERTIFYING OFFICIALS RECEIVED NUCLEAR SURETY TRAINING?	AFI 91-101 para 2.16.3.	3, 5	
1.12.	Have all wing supplements to surety-related publications AFI 91-100 series been approved by HQ USAFE/SEW?	AFI 91-101 USAFE Sup1 para 2.4.10.	3, 5	
1.13.	Does the Wing Weapons Safety Manager review all plans, Operating Instructions (OI), and locally produced tech data affecting nuclear weapons operations?	AFI 91-101, para 2.11.14.	3, 5	
1.14.	Is the Nuclear Surety Council chaired by the Wing/Group Commander or Vice Wing/Group Commander?	AFI 91-101, para 2.17.1.1.	3, 5	
1.15.	Are Nuclear Surety Council meetings held at least quarterly?	AFI 91-101 USAFE Sup1, para 2.17.1.1.	3, 5	
1.16.	Are PRP certifying officials and Base PRP monitor attending the Nuclear Surety Council?	AFI 91-101, para 2.17.1.2.	3, 5	
1.17.	Are functional experts utilized as advisors to the Nuclear Surety Council?	AFI 91-101, para 2.17.1.3.	3, 5	
1.18.	Are the following topics discussed/ addressed during the Nuclear Surety Council?			
1.18.1.	Unit nuclear mishap and deficiency reports (Dull Swords) since the previous meeting?	AFI 91-101 USAFE Sup1, para 2.17.4.1.	3, 5	
1.18.2.	Status of all open action items affecting surety to include MUNSS issues requiring action by parent wing?	AFI 91-101 USAFE Sup1, para 2.17.4.2.	3, 5	
1.18.3.	Results of higher headquarters-conducted Defense Nuclear Surety Inspections (DNSI), NSIs, and Nuclear Surety (NS) SAVs, for the wing, subordinate units and other units with a similar mission?	AFI 91-101 USAFE Sup1, para 2.17.4.3.	3, 5	
1.18.4.	Review publications and release of new or revised directives affecting the unit?	AFI 91-101 USAFE Sup1, para 2.17.4.4.	3, 5	
1.18.5.	Review of local nuclear surety exercise status including corrective actions and status?	AFI 91-101 USAFE Sup1, para 2.17.4.5.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
1.19.	Do the minutes for the Nuclear Surety Council contain a synopsis of topics addressed during the council meeting?	AFI 91-101, USAFE Sup1, para 2.17.5.	3, 5	
1.20.	Are the Nuclear Surety Council minutes for the last four meetings kept by the weapons safety office?	AFI 91-101, USAFE Sup1, para 2.17.5.	3, 5	
1.21.	Are deserving individuals submitted for Nuclear Surety Awards?	AFI 91-101 USAFE Sup1 para 2.18.	3, 5	
2.	AFI 91-103 <i>Air Force Nuclear Safety Certification Program</i>			
2.1.	WHEN APPROVAL TO MODIFY NONSPECIALIZED US MANUFACTURED AND OWNED NUCLEAR CERTIFIED EQUIPMENT (NCE) CANNOT BE GRANTED AT THE UNIT LEVEL, DOES THE WEAPONS SAFETY OFFICE FORWARD FORMAL REQUEST FOR APPROVAL TO MODIFY TO HQ USAFE/SEW?	AFI 91-103, para 13.2.2. & USAFE Sup1, para 13.2.2.1.	3, 5	
2.2.	WHEN APPROVAL TO MODIFY NONSPECIALIZED FOREIGN MANUFACTURED OR OWNED NCE CANNOT BE GRANTED AT THE UNIT LEVEL, DOES THE UNIT FORWARD FORMAL REQUESTS FOR APPROVAL TO MODIFY TO ENGINEERING LIAISON OFFICE (ELO)?	AFI 91-103, para 13.2.2. & USAFE Sup1, para 13.2.2.2.	3, 5	
2.3.	Does the Weapon Safety office:			
2.3.1.	Manage the unit nuclear safety certification program?	AFI 91-103 USAFE Sup1, para A.6.2.	3, 5	
2.3.2.	Approve the NCE list format for unit NCE monitors (or developed a standardized format for the NCE list)?	AFI 91-103 USAFE Sup1, para A.6.2.1.	3, 5	
2.3.3.	Review and forward requests for certification of uncertified equipment as directed in the basic publication through USAFE (or (Engineering Liaison Office (OL-EL/ELO) when applicable) channels?	AFI 91-103 USAFE Sup1, para A.6.2.2.	3, 5	
2.3.4.	Review and forward requests for modification to NCE as directed in the basic publication through USAFE (or OL-EL/ELO when applicable) channels?	AFI 91-103 USAFE Sup1, para A.6.2.3.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
2.3.5.	Develop a standard format for NCE management books for use by unit NCE monitors?	AFI 91-103 USAFE Sup1, para A.6.2.4.	3, 5	
2.3.6.	Train unit NCE monitors within thirty days of their appointment on required areas specified in AFI 91-103 USAFE Sup1, Para A.6.2.5.?	AFI 91-103 USAFE Sup1, para A.6.2.5.	3, 5	
2.4.	Has the Commander:			
2.4.1.	Established an NCE Program?	AFI 91-103 USAFE Sup1, para A.6.3.2.	3, 5	
2.4.2.	Appointed a primary and alternate NCE monitor and forwarded Appointment letter to the WSM?	AFI 91-103 USAFE Sup1, para A.6.3.2.	3, 5	
2.5.	Have the NCE Monitors:			
2.5.1.	Developed and maintained a list of NCE assigned to their unit?	AFI 91-103 USAFE Sup1, para. A.6.3.3.1.	3, 5	
2.5.2.	Developed and maintained an NCE management book?	AFI 91-103 USAFE Sup1, para. A.6.3.3.2.	3, 5	
2.5.3.	Informed WSMs, commanders and unit leadership of significant problems associated with NCE?	AFI 91-103 USAFE Sup1, para. A.6.3.3.3.	3, 5	
2.5.4.	Requested certification of uncertified equipment?	AFI 91-103 USAFE Sup1, para. A.6.3.3.4.	3, 5	
2.5.5.	Requested modifications to NCE?	AFI 91-103 USAFE Sup1, para. A.6.3.3.5.	3, 5	
2.5.6.	Reported deficiencies and situations involving NCE to the WSM when the deficiencies and situations meet the criteria of AFI 91-204 and AFMAN 91-221?	AFI 91-103 USAFE Sup1, para. A.6.3.3.6.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
2.5.7.	Notified the WSM when the status of the reported deficiency or situation involving NCE changes?	AFI 91-103 USAFE Sup1, para. A.6.3.3.6.	3, 5	
2.5.8.	Provided courtesy copies of material or quality deficiency reports prepared on NCE to the WSM for their review?	AFI 91-103 USAFE Sup1, para. A.6.3.3.7.	3, 5	
2.5.9.	Verified time compliance technical order (TCTO) requirements have been accomplished as directed by the TCTO itself, higher headquarters, or item or system managers?	AFI 91-103 USAFE Sup1, para. A.6.3.3.8.	3, 5	
2.5.10.	Contacted ELO when TCTOs are not safety or mission-related on US manufactured equipment owned by host nations?	AFI 91-103 USAFE Sup1, para. A.6.3.3.8.	3, 5	
2.6.	NCE List Considerations:			
2.6.1.	Is the NCE list reviewed and updated to meet unit needs?	AFI 91-103 USAFE Sup1, para. A.6.4.1.	3, 5	
2.6.2.	Are individual pages of the NCE list dated (or another locally determined means) to allow users to determine the currency of the list (or any given portion of the list when built in multiple sections)?	AFI 91-103 USAFE Sup1, para. A.6.4.1.1.	3, 5	
2.6.3.	ARE POSITIVE MEASURES EMPLOYED TO ENSURE ANY ITEM INTENDED FOR USE WITH NUCLEAR WEAPONS OR AS A COMPONENT OF A NUCLEAR WEAPON SYSTEM IS NUCLEAR CERTIFIED ACCORDING TO THE MASTER NUCLEAR CERTIFICATION LIST (MNCL)?	AFI 91-103 USAFE Sup1 para. A.6.4.1.2.	3, 5	
2.6.4.	Does the NCE list include the disclosure statement from AFI 91-103 USAFE Sup1, A.6.4.2.?	AFI 91-103 USAFE Sup1, para. A.6.4.2.	3, 5	
2.6.5.	Does each page of the NCE list include the statement from AFI 91-103 USAFE Sup1, Para A6.4.3.?	AFI 91-103 USAFE Sup1, para. A.6.4.3.	3, 5	
2.6.6.	Do host nation personnel at MUNSS have permission to use and view the NCE list if required for performance of their mission?	AFI 91-103 USAFE Sup1, para. 6.4.4.2.	5	

Item Number	Item	Reference	Applicability Code	Yes/No
2.6.7.	Does the NCE list include the nomenclature; national item identification number (if assigned); part number (if assigned); unique field, identification, serial number (when assigned); and quantity (when locally determined useful)?	AFI 91-103 USAFE Sup1, para. A.6.4.5.	3, 5	
2.7.	Serviceability of NCE.			
2.7.1.	Does the unit understand the approved serviceability standards for US-owned equipment as defined in United States Air Force (USAF)-approved Technical Orders (T.O.)?	AFI 91-103 USAFE Sup1, para. A.6.5.1.	3, 5	
2.7.2.	DOES THE UNIT ENSURE NCE WITH QUESTIONABLE SERVICEABILITY IS NOT USED WITH NUCLEAR WEAPONS AND NUCLEAR WEAPON SYSTEMS UNTIL THE SERVICEABILITY ISSUE IS RESOLVED?	AFI 91-103 USAFE Sup1, para. A.6.5.3.	3, 5	
2.7.3.	Is NCE positively identified by nameplate, label, appropriate marking or by historical document?	AFI 91-103 USAFE Sup1, para. A.6.5.4.	3, 5	
2.8.	Locally-Produced Publications.			
2.8.1.	Are locally-produced publications for US-owned NCE, derived from USAF-approved technical orders, developed, reviewed, and approved according to T.O. 00-5-1, <i>Air Force Technical Order System</i> , and its USAFE Sup 1?	AFI 91-103 USAFE Sup1, para. A.6.6.1.1.	3, 5	
2.8.2.	For non-US-owned or -maintained equipment, do US personnel use the host nation developed prior-to-use inspection checklists and workcards that are developed in accordance with their service, national maintenance standards, guidance, and practices?	AFI 91-103 USAFE Sup1, para. A.6.6.2.	3, 5	
3.	AFI 91-104 <i>Nuclear Surety Tamper Control And Detection Programs</i>			
3.1.	Are violations of the Two-Person Concept reported according to AFI 91-204, <i>Safety Investigations and Reports</i> ?	AFI 91-104, para 1.4, & AFMAN 91-221, para 1.4.5.1.7.	3, 5	
3.2.	Has a course of action been prescribed for broken or tampered seals which include the following items as a minimum:			

Item Number	Item	Reference	Applicability Code	Yes/No
3.2.1.	Investigate the event and send a mishap report according to AFI 91-204 and AFMAN 91-221?	AFI 91-104, para 3.3.2.9.	3, 5	
3.2.2.	Establish procedures to maintain control of the system until the situation is resolved?	AFI 91-104, para 3.3.2.9.	3, 5	
3.2.3.	Check the integrity of the weapon system and reseal if integrity is assured?	AFI 91-104, para 3.3.2.9.	3, 5	
3.2.4.	Prescribe a course of action when a seal is accidentally broken during authorized operations?	AFI 91-104, para 3.3.2.9.	3, 5	
3.2.5.	Ensure training seals can be easily distinguished from, and are not used as, operational seals?	AFI 91-104, para 3.3.2.9.	3, 5	
3.3.	Do Two-Person Concept Teams perform the following:			
3.3.1.	ENFORCE THE TWO-PERSON CONCEPT WHILE PERFORMING A TASK OR OPERATION AND CONTINUE TO ENFORCE IT UNTIL THEY ARE EITHER RELIEVED BY AUTHORIZED PERSONNEL OR THEY HAVE SECURED THE NUCLEAR WEAPON, NUCLEAR WEAPON SYSTEM, OR CERTIFIED CRITICAL COMPONENT?	AFI 91-104, para 3.4.	3, 5	
3.3.2.	TAKE IMMEDIATE, POSITIVE STEPS TO PREVENT OR STOP AN INCORRECT PROCEDURE OR UNAUTHORIZED ACT?	AFI 91-104, para 3.4.	3, 5	
3.3.3.	Report deviations immediately to the appropriate supervisor?	AFI 91-104, para 3.4.	3, 5	
4.	AFI 91-107 <i>Design, Evaluation, Troubleshooting, And Maintenance Criteria For Nuclear Weapons Systems</i>			
4.1.	Do troubleshooting and maintenance operations:			
4.1.1.	PROHIBIT USING ANY NUCLEAR WEAPON AS A TROUBLESHOOTING TOOL?	AFI 91-107 para 8.1.	3, 5	
4.1.2.	Use only certified equipment and procedures?	AFI 91-107 para 8.1.	3, 5	
4.1.3.	Be consistent with Weapons System Safety Rules (WSSR) and T.O.'s?	AFI 91-107 para 8.1.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
4.1.4.	ENSURE NUCLEAR WEAPONS ARE IMMEDIATELY AND SAFELY ISOLATED FROM POTENTIAL DANGER WHILE MAINTAINING PHYSICAL SECURITY WHEN A MALFUNCTION OCCURS?	AFI 91-107 para 8.1.	3, 5	
4.2.	WHEN A NUCLEAR SYSTEM FAULT OCCURS ON A LOADED NUCLEAR COMBAT AIRCRAFT, ARE ALL OPERATIONS CEASED AND APPROPRIATE ACTIONS TAKEN TO IDENTIFY, LOCATE, AND CORRECT THE FAULT?	AFI 91-107, para 9.1.	3, 5	
4.3.	Do troubleshooting procedures adhere to the following criteria:			
4.3.1.	USE BUILT-IN TEST (BIT) SYSTEM CAPABILITIES, RATHER THAN DETERMINATIONS BY FIELD-LEVEL PERSONNEL, TO IDENTIFY FAULTS?	AFI-91-107, para 9.1.	3, 5	
4.3.2.	USE ONLY INITIAL FAULT DETECTION DATA TO IDENTIFY THE FAULT, AND PROHIBIT DIAGNOSTIC TESTING TO IDENTIFY THE FAULT WHILE NUCLEAR WEAPONS ARE ELECTRICALLY MATED?	AFI-91-107, para 9.1.	3, 5	
4.4.	ARE AFFECTED NUCLEAR WEAPONS ISOLATED FROM THE FAULT PRIOR TO INITIATING TROUBLESHOOTING CRITICAL FAULTS?	AFI 91-107, para 9.1.1.	3, 5	
5.	AFI 91-108 <i>Air Force Nuclear Weapons Intrinsic Radiation Safety Program</i>			
5.1.	Does Wing Weapon Safety conduct reviews of the base, unit and/or MUNSS Intrinsic Radiation (INRAD) safety program as part of their annual nuclear surety annual inspections?	AFI 91-108 USAFE Sup1 7.1.2.2.	3, 5	
5.2.	Does the unit comply with the “as low as reasonably achievable” (ALARA) concept?	AFI 91-108, para 2.1.1.	3, 5	
5.3.	Are the following methods utilized, within constraints of logistics, weapons safety, security, and security requirements, as primary methods to achieve ALARA:			
5.3.1.	Minimize the time individuals spend in the vicinity of weapon systems?	AFI 91-108, para 2.2.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
5.3.2.	Increase personnel distance for weapon systems?	AFI 91-108, para 2.2.	3, 5	
5.3.3.	Use shielding?	AFI 91-108, para 2.2.	3, 5	
5.3.4.	Take a combination of the above-mentioned actions?	AFI 91-108, para 2.2.	3, 5	
5.4.	Does the unit commander (wing, group, tenant and/or Geographically Separated Unit (GSU)) perform the following:			
5.4.1.	Keep personnel exposures ALARA?	AFI 91-108, para 9.1.	3, 5	
5.4.2.	Designate the Radiation Safety Officer (RSO) in writing?	AFI 91-108, para 9.3.	3, 5	
5.4.3.	Educate personnel whose weapon system duties expose them to INRAD hazards? (May be combined with nuclear surety training)	AFI 91-108 USAFE Sup1 para 9.4.	3, 5	
5.4.4.	Document in the training records all individual and group radiation safety training specific to the unit workplaces?	AFI 91-108 USAFE Sup1 para 9.6.	3, 5	
5.4.5.	Establish procedures to:			
5.4.5.1.	Notify the base RSO of any new weapon systems, new weapon arrays, special operations, or proposed facility modifications where weapon systems will be located?	AFI 91-108 USAFE Sup1 para 9.7.1.	3, 5	
5.4.5.2.	Immediately inform the base RSO and chief of safety of any suspected abnormal exposure or overexposure to INRAD or inhaled radioactive material?	AFI 91-108, para 9.7.2.	3, 5	
5.4.5.3.	Assist the base RSO in evaluating incidents that involve suspected abnormal exposure or overexposure to INRAD or inhaled radioactive material and preparing the investigation report?	AFI 91-108 USAFE Sup1 para 9.7.3.	3, 5	
5.5.	Is the base RSO performing the following requirements:			
5.5.1.	Integrates the INRAD safety program into the overall base weapons safety program and radiation protection program?	AFI 91-108 USAFE Sup1 para 10.1.	3, 5	
5.5.2.	Knowledgeable of the INRAD hazards associated with weapon systems that are normally present?	AFI 91-108 USAFE Sup1 para 10.2.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
5.5.3.	Periodically reviews existing operations to identify any changes in operations, equipment, or sources that might pose INRAD hazards to personnel?	AFI 91-108 USAFE Sup1 para 10.3.	3, 5	
5.5.4.	Uses AFI 48-125, <i>The US Air Force Personnel Dosimetry Program</i> , to evaluate any suspected abnormal exposure or overexposure to INRAD or inhaled radioactive materials?	AFI 91-108, para 10.4.	3, 5	
5.5.5.	Advises appropriate commanders when personnel need to use a dosimeter, engineering controls, personal protective equipment, administrative controls, and bioassay requirements?	AFI 91-108, para 10.5.	3, 5	
5.5.6.	Reviews unit operating instructions for the control of INRAD hazards and make appropriate recommendations to unit commanders. At a minimum, specifies procedures and individuals to be contacted in case of suspected abnormal exposure or overexposure to INRAD or inhaled radioactive material?	AFI 91-108, para 10.6.	3, 5	
5.5.7.	Provides consultation on INRAD hazards to commanders, as requested?	AFI 91-108 USAFE Sup1 para 10.7.	3, 5	
5.5.8.	If necessary, provides personal dosimetry services according to AFI 48-125?	AFI 91-108, para 10.8.	3, 5	
5.5.9.	Evaluates a pregnant staff member's workplace for potential radiation exposure and recommends to Environmental Health Service that it keep the total dose below 500 mrem (50 mrem per month) during the pregnancy?	AFI 91-108, para 10.9.	3, 5	
5.5.10.	Addresses the INRAD safety program in the annual review and documentation of the overall radiation protection program?	AFI 91-108, para 10.10.	3, 5	
6.	Do unit RSOs perform the following duties: NOTE: Weapon safety staff assigned to MUNSS will perform the requirements of the Unit RSO.	AFI 91-108, para 11 & USAFE Sup1 para 11.		
6.1.	Coordinate with the base RSO to establish personal dosimetry requirements?	AFI 91-108, para 11.1.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
6.2.	Coordinate with supervisors to ensure that all individuals whose duties expose them to INRAD receive initial and annual radiation safety training? <i>NOTE:</i> Reoccurring training is currently 12 months, change pending to 15 months; validate before identifying as a discrepancy.	AFI 91-108, para 11.2.	3, 5	
6.3.	Review unit programs annually to determine whether requirements have changed and send results to the base RSO?	AFI 91-108, para 11.3.	3, 5	
6.4.	Monitor compliance with the ALARA concept through on-site inspections and interviews with maintenance technicians?	AFI 91-108, para 11.4.	3, 5	
6.5.	Support the base RSO in all aspects of the INRAD safety program?	AFI 91-108, para 11.5.	3, 5	
7.	AFI 91-204 & AFMAN 91-221 Accident, Incident, Deficiency Reporting			
7.1.	Does the unit report mishaps and deficiencies according to AFI 91-204 and AFMAN 91-221?	AFI 91-204 and AFMAN 91-221.	3, 5	
7.2.	Are Dull Swords reported based on the criteria outlined in AFMAN 91-221, para 1.4.5.?	AFMAN 91-221, para 1.4.5.	3, 5	
7.3.	Are Dull Swords for aircraft systems deficiencies reported based on criteria described in AFMAN 91-221, para 1.4.5.3.?	AFMAN 91-221, para 1.4.5.3.	3, 5	
7.4.	Are deficiencies on nuclear certified support equipment reported as Dull Swords as described in AFMAN 91-221, para 1.4.5.4.?	AFMAN 91-221, para 1.4.5.4.	3, 5	
7.5.	Are nuclear weapon system mishap reports formatted according to AFI 91-221, Figure A4.2.?	AFMAN 91-221, Figure A4.2.	3, 5	
7.6.	Do Dull Sword reports contain applicable information and comply with format in AFI 91-221, Figure A4.3.?	AFMAN 91-221, Figure A4.3.	3, 5	
7.7.	Are nuclear mishap reports prepared based on the proper reporting types, e.g., PRELIMINARY, SUPPLEMENTAL, ONE-TIME, FINAL, based on the detail and completeness of information?	AFMAN 91-221, Table 6.2.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
7.8.	Are nuclear accidents, incidents and deficiency reports submitted within the required timelines?	AFMAN 91-221, Table 6.2	3, 5	
7.9.	Are FINAL Dull Swords submitted within 90 calendar days, or is a due date extension from the major command (MAJCOM) granted?	AFMAN 91-221, Table 6.2., Line 12	3, 5	
7.10.	Are the proper addresses listed on nuclear safety reports?	AFMAN 91-221, Table 6.4. & as supplemented	3, 5	
7.11.	Do Final reports contain all information relating to the event in the report?	AFI 91-204 para 6.2.4. & AFMAN 91-221, para 6.6.	3, 5	
8.	AFI 91-202 <i>The US Air Force Mishap Prevention Program</i>			
8.1.	Does the Chief of Safety determine the frequency of spot inspections and ensure activities that operate around the clock are surveyed adequately at times other than normal duty hours?	AFI 91-202 para 3.1.2.	3, 5	
8.2.	Are high interest areas designated in writing and spot inspected monthly?	AFI 91-202 USAFE Sup1 para 3.1.	3, 5	
8.3.	Are follow up actions for annual inspections documented by spot inspections?	AFI 91-202 para 3.1.4.5.	3, 5	
8.4.	Has the unit developed a spot inspection program and forwarded it to the MAJCOM Safety office for review and coordination?	AFI 91-202 USAFE Sup1 para 3.7.1.	3, 5	
8.5.	Has weapons safety developed a matrix of functional areas and facilities to be inspected by the full time safety staff? For GSUs, wing WSM will assist GSU additional duty weapons safety in developing a spot inspection program.	AFI 91-202 USAFE Sup1 para 3.7.1.	3, 5	
8.6.	Do spot inspections reflect the following:			

Item Number	Item	Reference	Applicability Code	Yes/No
8.6.1.	Date and time of the inspection?	AFI 91-202 para 3.7.1., & USAFE Sup1 para 3.7.1.2.	3, 5	
8.6.2.	Inspector's name?	AFI 91-202 USAFE Sup1 para 3.7.1. & para 3.7.1.2.	3, 5	
8.6.3.	The organization, activity, or work area inspected and personnel contacted?	AFI 91-202 para 3.7.1. & para 3.7.1.2.	3, 5	
8.6.4.	Unit point of contact?	AFI 91-202 para 3.7.1. & para 3.7.1.2.	3, 5	
8.6.5.	Brief description of what was observed?	AFI 91-202 para 3.7.1. & para 3.7.1.2.	3, 5	
8.6.6.	If there was/was not a discrepancy and status of the finding and follow up action (open/closed)?	AFI 91-202 para 3.7.1. & para 3.7.1.2.	3, 5	
8.7.	Are annual inspection reports documented in writing? Are formal reports sent to the unit commander, the supervisor, and the functional manager? Do the annual reports contain:	AFI 91-202 USAFE Sup1 para 3.1.4.4.	3, 5	
8.7.1.	The unit, activity, or work area inspected?	AFI 91-202 USAFE Sup1 para 3.1.4.4.1.	3, 5	
8.7.2.	Date of the inspection?	AFI 91-202 para 3.1.4.4.2.	3, 5	
8.7.3.	A description of the hazards or unsafe practices noted with references?	AFI 91-202 para 3.1.4.4.3.	3, 5	
8.7.4.	Causes of deficiencies and hazards noted?	AFI 91-202 para 3.1.4.4.4.	3, 5	
8.7.5.	Recommendations for corrective actions?	AFI 91-202 para 3.1.4.4.5.	3, 5	
8.7.6.	Management and supervisory support compliance?	AFI 91-202 para 3.1.4.4.7.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
8.8.	Does the Chief of Safety review and initial all formal inspection reports returned by units?	AFI 91-202 USAFE Sup1 para 3.1.4.4.1.	3, 5	
8.9.	Are reports describing strong and weak programs sent to the installation commander for review?	AFI 91-202 USAFE Sup1 para 3.1.4.4.1.	3, 5	
8.10.	If safety personnel participate in periodic quality assurance and control inspections to meet annual inspection requirements is a separate report addressing safety findings generated?	AFI 91-202 USAFE Sup1 para 3.1.1.1.	3, 5	
8.11.	Do the safety staffs conduct staff assistance visits to units identified as being noncompliant during annual inspections?	AFI 91-202 USAFE Sup1 para 3.4.	3, 5	
8.12.	Have applicable units appointed primary and alternate additional duty weapons safety NCOs to manage the unit program?	AFI 91-202, USAFE Sup1 para 10.1.1.2.	3, 5	
8.13.	Are unit safety representatives trained within 30 days of appointment (MOB)? At the GSU (MUNSS), if the training cannot be accomplished within 30 days the parent installation safety staff may provide a training guide as an interim measure.	AFI 91-202 USAFE Sup1 para 6.2. & para 6.2.2.	3, 5	
8.14.	Is the base explosives location map reviewed annually? Does it include the following:	AFI 91-202 USAFE Sup1 para 10.4.11.	3, 5	
8.14.1.	Explosive hazard class and division and NEW authorized at each site?	AFI 91-202 para 10.4.11.1.	3, 5	
8.14.2.	Explosive clear zones around each location?	AFI 91-202 para 10.4.11.2.	3, 5	
8.14.3.	Primary and Alternate explosives routes?	AFI 91-202 para 10.4.11.3.	3, 5	
8.14.4.	Authorized Flightline locations for explosive operations?	AFI 91-202 para 10.4.11.4.	3, 5	

Item Number	Item	Reference	Applicability Code	Yes/No
8.14.5.	Locations for handling hung ordinance and gun-clearing?	AFI 91-202 para 10.4.11.5.	3, 5	
8.14.6.	Arm /de-arm areas?	AFI 91-202 para 10.4.11.6.	3, 5	
8.14.7.	Explosive support facilities such as flightline munitions holding areas?	AFI 91-202 para 10.4.11.7.	3, 5	
8.14.8.	Parking spots for explosive loaded aircraft?	AFI 91-202 para 10.4.11.10.	3, 5	
8.14.9.	Potential electromagnetic radiation (EMR) hazard zones that could affect munitions operations?	AFI 91-202 para 10.4.11.11.	3, 5	
9.	AFMAN 91-201 <i>Explosives Safety Standards</i>			
9.1.	Does the weapons safety office prepare and submit explosive site plans (ESP) for facilities or operations requiring explosives safety siting approval? Are all approved ESPs maintained by the safety office?	AFMAN 91-201, para 4.2.	3, 5	
9.2.	If applicable, does the commander publish procedures to ensure removal of critical resources and personnel at an explosive site (ES) prior to increasing potential explosive site (PES) explosive weights in order to maximize the protection under a tiered siting approach?	AFMAN 91-201, para 4.10.1.	3, 5	

JACK L. BRIGGS, Colonel, USAF
Director of Safety

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

AFI 33-360 Volume 1, *Air Force Content Management Program - Publications*

AFMAN 37-123, *Management of Records*

AFI 48-125, *The US Air Force Personnel Dosimetry Program*

AFI 63-125, *Nuclear Certification Program*

AFPD 91-1, *Nuclear Weapons and Systems Surety*

AFI 91-101, *Air Force Nuclear Weapons Surety Program*, and the USAFE Supplement 1

AFI 91-103, *Air Force Nuclear Safety Certification Program*, and the USAFE Supplement 1

AFI 91-104, *Nuclear Surety Tamper Control and Detection Programs*

AFI 91-107, *Design, Evaluation, Troubleshooting, and Maintenance Criteria for Nuclear Weapon Systems*

AFI 91-108, *Air Force Nuclear Weapons Intrinsic Radiation Safety Program*, and the USAFE Supplement 1

AFI 91-112, *Safety Rules for US Strike Aircrafts*

AFI 91-113, *Safety Rules for Non-US NATO Strike Aircraft*

AFI 91-115, *Safety Rules for Nuclear Logistics Transport by the Primenuclear Aircraft Force*

AFMAN 91-201, *Explosives Safety Standards*

AFI 91-202, *The US Air Force Mishap Prevention Program*, and the USAFE Supplement 1

AFI 91-204, *Safety Investigations and Reports*

AFMAN 91-221, *Weapons Safety Investigations and Reports*

HQ AFSC/SEW Policy Change, *Air Force Nuclear Weapons Surety Program*, dated 21 Feb 2003.

T.O. 00-5-1-, *Air Force Technical Order System*, and the USAFE Supplement 1

T.O. 11N-20-11, *General Firefighting Guidance*

ELO-1, *Host Nation Firefighting Guidance*

Abbreviations and Acronyms

ALARA—As low as reasonably achievable

CCGI—Core Compliance Guide Item

CGI—Compliance Guide Item

ELO—Engineering Liaison Office

ESP—Explosive Site Plan

GSU—Geographically Separated Unit

IG—Inspector General

INRAD—Intrinsic Radiation

MAJCOM—Major Command

MOB—Main Operating Base

MUNSS—Munitions Support Squadron

NCE—Nuclear Certification Equipment

NSI—Nuclear Surety Inspection

OL-EL—Engineering Liaison Office

PNAF—Prime Nuclear Airlift Force

PRP—Personnel Reliability Program

RSO—Radiation Safety Officer

SAV—Staff Assistance Visit

TCTO—Time Compliance Technical Order

T.O.—Technical Order

US—United States

USAF—United States Air Force

USAFE—United States Air Forces in Europe

WSM—Weapons Safety Manager