

**BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU**

**AIR NATIONAL GUARD POLICY
DIRECTIVE 90-2128**

14 MAY 2003

Command Policy



**COMPLIANCE AND STANDARDIZATION
REQUIREMENT LIST (C&SRL) HOT PIT
REFUELING**

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This directory implements Air Force Policy Directive (AFPD) 90-2, *The Inspection System*, and is applicable to all Air National Guard (ANG) flying units. Compliance with this directory and its parent instruction Air National Guard Instruction (ANGI) 21-101, *Maintenance Management of Aircraft*, is mandatory. Units will supplement this publication with items developed from appropriate technical data, Air Force Occupational Safety and Health (AFOSH) Standards (STD), local operating instructions (OI), etc., to assess internal compliance. Higher Headquarters/Inspector General (HHQ/IG) may use this directory in whole or in part during evaluations and exercises.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

1. The items listed do not constitute the order or limit the scope of the inspection/assessment. As a minimum, units will use this directory in conjunction with the annual unit self-inspection. The objective is to identify deficiencies that preclude attainment of required capabilities.

Table 1. Hot Pit Refueling

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
1.	Hot Pit Refueling General			
1.1.	Is the hot refueling area included in the base-parking plan? (2.3.1.75.)			
1.2.	Are personnel qualified to support hot refueling operations (as applicable)? (2.5.10.)			
1.3.	Does Quality Assurance manage the Hot Refuel Program? (10.2.3.8.)			
1.4.	Are locations, equipment requirements, and personnel qualifications certified IAW ANGI 21-101 and TO 00-25-172 prior to hot/aircraft-to-aircraft refueling accomplishment? (18.17.3.)			
1.5.	Does base fuels management flight maintain sufficient hot refueling certified fuels specialists for each operations squadron authorized to conduct hot refueling? (18.17.3.1.)			
2.	Hot Pit Refueling Training			
2.1.	Is Hot Refuel supervisor "A" member loaded as a mandatory item on the Special Certification Roster (SCR)? (Table 18.1., Item 16a.)			
2.2.	Is Hot Refuel crew "B" member loaded as a mandatory item on the Special Certification Roster (SCR)? (Table 18.1., Item 16b.)			
2.3.	Is Hot Refuel Fuels specialist 2F0X1, "C" member loaded as a mandatory item on the Special Certification Roster (SCR)? (Table 18.1., Item 16c.)			
2.4.	Is additional Hot Refuel crew "D" member, if required, loaded as a mandatory item on the Special Certification Roster (SCR)? (Table 18.1., Item 16d.)			
2.5.	Is Hot Pad supervisor loaded as a mandatory item on the Special Certification Roster (SCR)? (Table 18.1., Item 16e.)			
2.6.	Does Hot Refuel supervisor "A" members have a minimum 5 skill level, refuel task qualified, capable of supervising hot refuel crew, possess an aircraft maintenance AFSC 5-level qualification, 1 year of flight line aircraft maintenance experience and successfully completed all 3 phases of "HOT REFUEL" training? (Table 18.1., Item 16a. and 18.17.10.2.)			
2.7.	Does Hot Refuel crew "B" members have a minimum 5 skill level, refuel task qualified, possess an aircraft maintenance AFSC, 1 year of flight line aircraft maintenance experience and successfully completed all 3 phases of "HOT REFUEL" training? (Table 18.1., Item 16b. and 18.17.10.3.)			

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
2.8.	Does Hot Refuel Fuels specialist 2F0X1, "C" members have a minimum 5 skill level in Air Force Specialty Code 2F0X1, refuel task qualified and successfully complete all 3 phases of 'HOT' training? (Table 18.1., Item 16c. and 18.17.10.4.)			
2.9.	Does additional Hot Refuel crew "D" members have a minimum 5 skill level, refuel task qualified, possess an aircraft maintenance AFSC, have 1 year of flight line maintenance experience and successfully completed all 3 phases of 'HOT' training? (Table 18.1., Item 16d. and 18.17.10.5.)			
2.10.	Does Hot Pad supervisors possess a 5-level or higher qualification in an aircraft maintenance AFSC, is hot/aircraft-to-aircraft refueling supervisor "A" member qualified and successfully completed all 3 phases of 'HOT' training. (Table 18.1., Item 16e. and 18.17.10.1.)			
2.11.	Is Hot or Aircraft-to-Aircraft Refueling Training, Certification and Documentation conducted in accordance with ANGI 21-101, Table 18.2? (18.17.12.)			
2.12.	Is qualification training of hot or aircraft-to-aircraft refueling personnel conducted in three distinct phases? (18.17.12.1.)			
2.13.	Are safety requirements, emergency procedures and equipment inspection stressed in all three phases of qualification training? (18.17.12.1.)			
2.14.	Are Procedures in TOs 37A9-3-11-1CL-1, 00-25-172, and 00-25-172CL-4 taught to all team supervisors and members? (18.17.12.1.)			
2.15.	Is phase II and III conducted utilizing joint sessions including 2F0X1 personnel and all maintenance AFSCs? (18.17.12.1.)			
2.16.	Is training taught utilizing joint sessions, using both fuels (2F0X1) and maintenance AFSC instructors? (18.17.12.1.)			
2.17.	Has the MXG/CC designated a unit OPR for hot refuel training? (18.17.12.1.)			
2.18.	Do designated instructors familiarize trainees with applicable technical data, procedures and guidance for hot/aircraft-to-aircraft refueling during Phase I "Familiarization" phase? (18.17.12.1.1.)			
2.19.	Is special emphasis placed on procedures for hot refueling with ordnance loaded, when authorized during Phase I "Familiarization" phase? (18.17.12.1.1.)			
2.20.	Is information learned in Phase I applied to develop in-depth knowledge and proficiency in all facets of hot/aircraft-to-aircraft refueling during Phase II "Hands-on" phase? (18.17.12.1.2.)			

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
2.21.	Is proper operation, preventive maintenance, use of hand signals and emergency procedures included during Phase II "Hands-on" phase? (18.17.12.1.2.)			
2.22.	Is hot or aircraft-to-aircraft refueling simulate by performing all hot or aircraft-to-aircraft refueling tasks without aircraft engines running (cold pit) during Phase II "Hands-on" phase? (18.17.12.1.2.)			
2.23.	Do trainees actually demonstrate hot/aircraft-to-aircraft refueling under the supervision of designated certifiers with aircraft engine(s) running during Phase III "Demonstration/Certification" phase? (18.17.12.1.2.)			
2.24.	Are HH-60 aircrew members trained/certified IAW 58 SOW Formal School Courseware? (18.17.12.3.)			
2.25.	Are all aircraft maintenance and 2F0X1 personnel Phases II, III initial training, and I documented in the job qualification standard (JQS) or AF Form 797 for AFSCs where "refuel aircraft with engines operating" is not contained in the JQS? (18.17.13.1.)			
2.26.	Is recurring hot or aircraft-to-aircraft refueling certification tracked in MIS? (18.17.13.1.)			
2.27.	Does AFSC 2F0X1 personnel use AF Form 1098, Special Tasks Certification and Recurring Training, to document Phases I, II, and III initial and recurring hot refuel training? (18.17.13.2.)			
2.28.	Is the AF Form 2426 or locally approved form used to add qualified hot/aircraft-to-aircraft refueling members, by position, to the unit's SCR? (18.17.14.)			
3.	Hot Pit Refueling Site Certification			
3.1.	Are hot pit refueling sites certified in accordance with TO 00-25-172 and ANGI 21-101? (18.17.3.2.)			
3.2.	Has the unit commander documented by position, a unit certification team to recertify existing hot refueling sites and to approve additional on-base and deployment location hot refueling sites after initial ANG certification. (18.17.3.2.)			
3.3.	Does the base site certification team consist of the following; Field grade maintenance officer, Representative from Airfield Management Office, Maintenance AFSC member from QA office, Wing Ground Safety member, Fuels management flight member, Civil engineering member and Fire protection member? (18.17.3.2.1. – 18.17.3.2.7.)			

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
3.4.	Does QA maintain all hot pit/aircraft-to-aircraft site certification documentation and a master listing of all hot pit/aircraft-to-aircraft sites? (18.17.4.)			
3.5.	Does QA forward new consolidated hot pit site certification listing to ANG/LGMM anytime sites are added, changed, or deleted? (18.17.4.)			
3.6.	Is each unit hot/aircraft-to-aircraft-refueling site re-certified by a unit recertification team, and approved by ANG/LGM, when a change in the unit MDS or an additional MDS, construction of new hot/aircraft-to-aircraft refueling sites, change in refueling equipment or changes in the certified site(s) area which affect/change the previous certification. (18.17.4. - 18.17.4.4.)			
3.7.	Do coordinates on a map identify all refueling sites? (18.17.5.1.)			
3.8.	Is each facility that is within the distance identified in TO 00-25-172, identified on the map as to its use/contents and its distance in feet from the refueling site/operation? (18.17.5.1.)			
3.9.	Are other refueling sites, aircraft parking areas, etc. identified on the map? (18.17.5.1.)			
3.10.	Has any restrictions to normal operations and actions required to comply with TO 00-25-172 been addressed? (18.17.5.1.)			
3.11.	Are procedures such as aircraft taxi routes shown on the map, using arrows or dotted lines to show taxi directions both entry and exit? (18.17.5.1.)			
3.12.	Has the type of equipment used for hot/aircraft-to-aircraft refueling at each site, i.e., hose carts, truck, etc. been stated? (18.17.5.2.)			
3.13.	Is the location of any fixed fuel pits and usual location of cart or truck if used shown? (18.17.5.2.)			
3.14.	Has unit-approved sites been identified on the aircraft-parking plan? (18.17.5.2.)			
3.15.	Does CE, QA, and the Airfield Operations maintain copies of hot refueling sites on file? (18.17.5.2.)			
3.16.	Has record copies of hot refueling sites been forwarded to ANG site certification team members? (18.17.5.2.)			
3.17.	Does all hot/aircraft-to-aircraft refueling areas comply with the quantity-distance separation requirements of AFMAN 91-201 in relation to surrounding exposed sites/potential explosion sites? (18.17.5.3.)			

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
3.18.	Has hot/aircraft-to-aircraft refueling detailed procedures been published in appropriate technical orders and unit developed checklists? (18.17.6.)			
3.19.	Does unit checklists include detailed procedures, normal and emergency, to meet requirements of the local environment? (18.17.6.)			
3.20.	Has unit checklists been reviewed by ANG/LGMM representative? (18.17.6.1.)			
3.21.	Have procedures been published to supplement ANGI 21-101 (18.17. Hot and Aircraft-to-Aircraft Refueling Procedures) and outline local requirements and additional precautions as necessary for hot/aircraft-to-aircraft refueling, including hot refueling with ordnance, when authorized, IAW TO 00-25-172, Para 4.12 and Table 6-1? (18.17.7.)			
3.22.	Are enough qualified hot/aircraft-to-aircraft refueling crews are available to meet mission requirements for units with CC/TF/CA aircraft? (18.17.8.)			
3.23.	Has the aircraft been System Safety Engineering Analysis (SSEA) approved for hot pit/aircraft-to-aircraft refueling? (18.17.9.1.)			
3.24.	Is adequate area provided to position the aircraft safely (evaluate ability to reposition due to wind direction)? (18.17.9.2.)			
3.25.	Is the ramp level to prevent drainage causing environmental impact? (18.17.9.3.)			
3.26.	Is the location adequate for the number of aircraft to be serviced? (18.17.9.4.)			
3.27.	Has a hot brake parking area been established? (18.17.9.5.)			
3.28.	Is there proper clearance between the hot pit area and hot brake holding area to prevent conflict? (18.17.9.6.)			
3.29.	Is there proper clearance between the hot pit and Explosive Clear Zone/Hot Cargo Pad/Airfield Clearance Zones to prevent violations of any area/zone? (18.17.9.7.)			
3.30.	Is the hot pit adequately clear of the aircraft/vehicle traffic area? (18.17.9.8.)			
3.31.	Is the hot pit and cursory check area of the ramp clear of FOD potential? (18.17.9.9.)			
3.32.	Does the location provide for rapid access of emergency equipment and egress of aircraft/equipment? (18.17.9.10.)			
3.33.	Are adequate grounding points available? (18.17.9.11.)			
4.	Hot Pit Refueling Team Members and Duties.			

ITEM NO.	ITEM AND REFERENCES <i>(All references are to ANGI 21-101 unless otherwise indicated)</i>	YES	NO	N/A
4.1.	Does the pad supervisor have full view and control of multiple hot/ aircraft-to-aircraft refueling operations? (18.17.10.1.)			

DANIEL JAMES III, Lieutenant General, USAF
 Director, Air National Guard