

**BY ORDER OF THE COMMANDER
KIRTLAND AIR FORCE BASE**

**KIRTLAND AIR FORCE BASE
INSTRUCTION 13-212**



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***Nuclear, Space, Missile, Command and
Control Operations***

RANGE PLANNING AND OPERATIONS

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This instruction implements Air Force Manual (AFMAN) 13-212V1, *Range Planning and Operations*. This instruction provides guidance for Commanders/Directors of Department of Energy (DOE), National Nuclear Security Administration (NNSA), Air Force Research Laboratories (AFRL), Defense Threat Reduction Agency (DTRA) and any other agency wishing to operate on assigned ranges safely, effectively, and efficiently to meet training and test requirements while minimizing potential effects on the environment and the surrounding communities. It applies to and prescribes procedures for coordinating the planning of any testing, demonstration, exercise, or other activity to be accomplished in an outdoor area on Kirtland Air Force Base (KAFB) to ensure de-confliction of schedules and events, particularly those with high safety risks, involve flight operations, or have the potential to negatively impact non-participant personnel or facilities. It details notification requirements, and procedures for review and establishment of test and operational limitations for these events. This instruction also applies to research and development laboratories and restoration operations within withdrawn land boundaries. This instruction applies to every user who has an outdoor propagation; explosives, directed energy, or unit exercises on KAFB and the withdrawn area. This publication applies to the Air National Guard (ANG) and Air Force Reserve Command (AFRC). It also includes all Army and Marine Corps units training on KAFB. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Air Force (AF) Form 847, *Recommendation for Change of Publication*; route AF Form 847 from the field through the appropriate functional's chain of command. Waivers for any portion of this supplement are not authorized. Supplementing this instruction is not authorized without consultation with the

OPR. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Instruction (33-322), *Records Management and Information Governance Program*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). The DOE and NNSA are responsible for activities on DOE and NNSA fee, withdrawn and permitted lands. When activities have the potential to impact off site of DOE and NNSA fee, withdrawn and permitted lands, coordination is mandatory. On land permitted to DOE and NNSA from Department of Defense (DoD), DOE and NNSA are required to follow the land use permit. Land use permits require DOE and NNSA to be responsible for Environment, Safety & Health (ES&H) for DOE and NNSA operations.

SUMMARY OF CHANGES

This instruction has been revised in its' entirety and must be completely reviewed. It conforms to the requirements of AFMAN 13-212V1.

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Chapter 1

INTRODUCTION

1.1. Description of Ranges. KAFB has 42 different ranges that are cited for explosive operations. Most of the 42 ranges are cited for intentional detonations, Ground Burst Simulators, (GBS), simulated munitions (simunitions), smoke grenades and the remainder are cited for non-explosive training operations, Explosive Research and Development and Directed Energy Research and Development. Installation commander approves directed energy research and development operations conducted at AFRL outdoor facilities/test sites in lieu of formal range certification. Below is a listing of the major ranges that are addressed in AFMAN 13-212V1. See **Figure 1.1** of this instruction.

1.1.1. AFRL Laser Test Facility Bldg 760. AFRL maintains a facility on KAFB for research and development of laser technology. This facility is located on the south side of the airport complex.

1.1.2. Chestnut Range. AFRL maintains and manages the Chestnut Range and conducts various explosive research and development and directed energy testing on the range. This range is also used on a non-interference basis by DTRA for explosives research and development. This range is located on the southernmost portion of KAFB.

1.1.3. High Energy Research Test Facility (HERTF). The HERTF is another facility that is maintained by AFRL and is used as a test facility that shoots directed energy into HERTF Canyon. This facility is located on the southeast portion of the KAFB complex.

1.1.4. Starfire Optical Range (SOR). The SOR facility, maintained by AFRL and is used to conduct directed energy testing using lasers that fire into the atmosphere. This facility is located on the southeast portion of the KAFB complex.

1.2. Range Test and Training Activities. All agencies conducting range activities will comply with this instruction and ensure those activities are coordinated through the Air Base Wing Range Management Office, Weapons Safety Office (377 ABW/SEW) and Civil Engineering (CE) Environmental Office to ensure safety of personnel, structures and the public from expended weapons, laser, electromagnetic emissions, and target debris. The DOE and NNSA are responsible for activities on DOE fee, DOE withdrawn lands and DOE permitted lands. When activities have the potential to impact off site of DOE fee, withdrawn land or permitted land, coordination is mandatory. On land permitted to DOE and NNSA from DoD, DOE and NNSA are required to follow the land use permit. Land use permits require DOE and NNSA to be responsible for ES&H for DOE and NNSA operations.

1.2.1. KAFB explosive and directed energy ranges are currently all surface activities with no aerial delivery of any ordnance or aerial laser operations. The only aerial operations currently being conducted are fixed wing and rotary aircraft pilot training. There are insertion/extraction operations on the ranges for Special Warfare students.

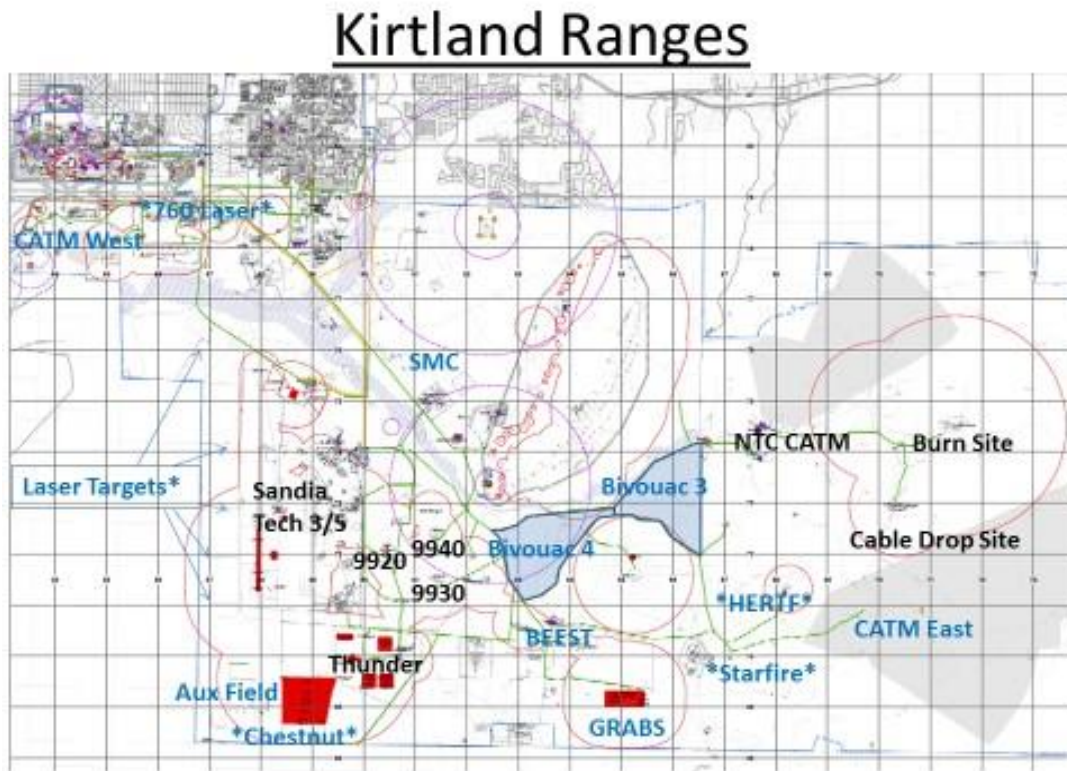
1.2.2. Below is a listing of operations addressed in AFMAN 13-212V1 that are not conducted on KAFB ranges.

1.2.2.1. Aerial laser operations.

1.2.2.2. Aerial delivery of ordnance.

- 1.2.2.3. Electronic Warfare (EW) operations.
- 1.2.2.4. Emergency and jettison procedures.
- 1.2.2.5. There is no ground control of aircraft transitioning into or out of the ranges hence there is no need to address frequency clearances.
- 1.2.2.6. Chaff and flare operations.
- 1.2.2.7. Range Control Officer (RCO Night Vision Devices).
- 1.2.2.8. There is no need to address range clearance operations since all explosive operations are one time shots and debris is cleared upon test completion. During the first week of March, all DoD ranges are closed for range cleanup operations. DOE controlled ranges are encouraged to participate.

Figure 1.1. KAFB Ranges.



Chapter 2

ROLES AND RESPONSIBILITIES

2.1. 377th Air Base Wing Commander (377 ABW/CC).

2.1.1. Will assume the role of the Range Operating Authority (ROA) or may delegate the role to the 377 ABW Vice Commander (377 ABW/CV).

2.1.2. Will terminate, prohibit, or suspend immediately any test or activity in DoD fee owned and DoD public withdrawn lands detrimental to:

2.1.2.1. Public health and safety.

2.1.2.2. Property (either public or private).

2.1.2.3. Any national security interest of the United States.

2.1.3. Will coordinate with DOE NNSA to request immediate termination, to prohibit, or suspend any test or activity on DOE fee owned or DOE public withdrawn lands or on lands permitted to DOE by DoD detrimental to:

2.1.3.1. Public health and safety.

2.1.3.2. Property (either public or private).

2.1.3.3. Any national security interest of the United States.

2.2. 377 ABW Range Operations Officer (377 ABW/XPR).

2.2.1. Will serve as Chairperson to Range Scheduling Committee (RSC) members.

2.2.2. Will accept projected schedules from responsible agency.

2.2.3. Will consolidate and distribute schedules for RSC Core member's review and approval.

2.2.4. Will distribute schedule and changes to appropriate distribution lists. **NOTE:** All organizations must coordinate scheduled inputs through their safety officer or range manager, prior to submitting to the RSC. DOE/NNSA Sandia Field Office (SFO) is the cognizant authority for SNL under contract to DOE/NNSA. SNL is responsible for developing, reviewing, approving appropriate procedures in compliance to contract requirements. Therefore, documents submitted between SNL and KAFB under the scope of this instruction will be submitted through the DOE/NNSA/SFO Assistant Manager for Operations (AMO) Office.

2.2.5. Will de-conflict any safety or scheduling issues between agencies conducting high-risk tests, training exercises, or flight operations.

2.2.6. Will have authority to prioritize, delay, or cancel conflicting operations when it is apparent that a scheduling conflict cannot be resolved.

2.2.7. Will maintain master schedule of events.

2.2.8. Will serve as observer for the 377 ABW/CC and monitor a sample of tests/training exercises conducted by DoD and DOE agencies or their contractors. 377 ABW/XPR will make prior notifications to respective testing organization for entry to test area(s). **NOTE:** 377 ABW/XPR does not have oversight authority over DOE or their contractors.

2.2.9. Any requests to observe DOE and NNSA testing/training will be coordinated through the DOE/NNSA SFO/AMO Office.

2.3. Range Control Officer (377 ABW/XP).

2.3.1. Will accept projected schedules from responsible agency.

2.3.2. Will consolidate and distribute schedules for RSC Core members' review and approval.

2.3.3. All organizations will coordinate scheduled input IAW [para 2.2.4](#).

2.3.4. Will de-conflict any safety or scheduling issues between agencies conducting high-risk tests, training exercises, or flight operations.

2.3.5. Will have authority to prioritize, delay, or cancel conflicting operations when it is apparent that a scheduling conflict cannot be resolved.

2.3.6. Will maintain master schedule of events.

2.4. 377 ABW Weapons Safety Office (377 ABW/SEW).

2.4.1. Will serve as consultant to RSC members.

2.4.2. Will ensure safety precautions have been taken for all (DoD) tests and training exercises by reviewing and coordinating, as applicable, on written procedures (operating instructions (OI), safety annexes, Risk Management (RM) procedures, etc.) required for each operation.

2.4.3. Will de-conflict any safety issues between agencies conducting high-risk tests, training exercises, or flight operations.

2.4.4. Maintain Explosive Site Plans for the installation with explosive limits for all ranges.

2.5. Fire Department (377 MSG/CEF).

2.5.1. Will serve as consultant to RSC members.

2.5.2. Will review all DOE Combat Defense Field Training Exercise Plans (when applicable) to ensure awareness of any potential fire hazards.

2.5.3. Will provide fire services for range activities that are high risk of fire. Hazardous standby support is based on fire services availability. Minimum 30 day pre-coordination and may drive additional cost to the requesting organization.

2.5.4. Provides fire response for all range activities on the installation.

2.6. Real Property (MSG/CEIA). Will coordinate Real Property requests through 377 ABW/XPR.

2.7. Environmental Management (377 MSG/CEIE).

2.7.1. Will serve as consultant for environmental program efforts for DoD organizations.

2.7.2. Will review and submit to Albuquerque Environmental Health Department-Air Quality Division (AEHD-AQD) 20.11.21 New Mexico Administrative Code (NMAC) permit applications required for all open burning and open detonation activities for DoD organizations.

2.7.3. Will compile and report information provided by all units conducting open burning, open detonation, and small arms fire.

2.7.4. Will determine potential requirements with regard to the National Environmental Policy Act for an AF Form 813, *Request for Environmental Impact Analysis*, and process completed form when necessary.

2.8. Occupational Safety (377 ABW/SEG).

2.8.1. Will serve as consultant to RSC members for ground safety issues.

2.8.2. Will review DoD test plans for ground safety issues.

2.8.3. Will serve as an observer for the 377 ABW/CC on ground safety issues and as otherwise directed.

2.9. The RSC.

2.9.1. Will convene when an agency needs to make a presentation to the committee concerning new or unique test operations or at the call of the chairperson(s). (See [Attachment 2](#)).

2.9.2. Will de-conflict schedules.

2.9.3. Will determine notification requirements for individual tests/events.

2.9.4. Will recommend briefing of high profile or high risk projects to the 377 ABW/CC for approval to proceed.

2.9.5. All requests for briefing of DOE/NNSA high profile or high risk projects will be coordinated through the DOE/NNSA SFO/AMO Office.

2.10. Responsible Agency.

2.10.1. Will ensure compliance with this instruction and requirements in Federal Aviation Administration (FAA) Handbook 7400.2, *Procedures for Handling Airspace Matters*, pertaining to controlled firing areas (CFA).

2.10.2. Will submit monthly forecast of all tests and training exercises, via E-mail (377ABW.XP.RangeMgmtOffice@us.af.mil) or CD, to 377 ABW/XPR three working days before the monthly RSC scheduling meeting, in the Excel format provided (See [Figure 2.1](#)). All documentation shall be approved by respective review organizations prior to tests or training exercises being officially approved for the RSC schedule. Submit changes using procedures in [paragraph 6](#) Do not submit Excel document with formulas.

Figure 2.1. RSC Test/Exercise Schedule.

Date	Time	Location	Areas Affected	Agency	Type	Test Class	Explosive Type	Quantity	Hazards	POC	TEL	E-Mail

2.10.3. Will brief the RSC of new or increased hazards affecting a CFA.

2.10.4. Will for explosives or directed energy events, notify affected agencies using the notification checklist prior to the start of all test or training exercises (See [Attachment 3](#)).

2.10.5. Will designate a Range Safety Officer (RSO) and a point of contact (POC) for each test/training exercise to ensure clear zones are established and maintained prior to and during test operations. Test Director/Manager will be appointed as the RSO responsible for safety and surveillance of the area.

- 2.10.6. Will in case of misfire, follow applicable test plan safety procedures.
- 2.10.7. Will obtain approval from owning organization prior to performing tests/operations at their sites.
- 2.10.8. Will, upon termination of project, test, operations, etc., return the land (area) to original condition as identified in Memorandum of Agreement or Understanding (MOA/MOU) and/or land use agreements.
- 2.10.9. Will coordinate with 377 ABW/XPR prior to accomplishing any site surveys, preliminary tests, construction, demonstration or exercise activity with the exception of DOE/NNSA withdrawn, leased or permitted property.
- 2.10.10. Will submit Crash Grid Coordinates of exact locations for operations (see [Attachment 4](#)).
- 2.10.11. Will notify Command Post (377 ABW/CP) of any and all unexploded ordnance (UXO) for 377 MSG/CED Explosive Ordnance Disposal (EOD) response.
- 2.10.12. Each organization operating Radio frequency (RF) emitting devices on KAFB will contact the Mission Support Group Installation Spectrum Manager (377 MSG/SCOT) at (505) 853-3769/7426, Defense Switching Network (DSN) 263 who will assist in obtaining a local or national RF Authorization (RFA). Each organization will provide the 377 MSG/SCOT with information contained in [Table 2.1](#) If the equipment has no approved, Frequency Equipment Allocation number given by the Military Communication Electronics Board (MCEB) J-12 working group (J/F 12), then a spectrum certification application will be submitted and approved prior to requesting a RFA. Classified RF support will be submitted via Secret Internet Protocol Router Network (SIPRNET).

Table 2.1. Radiofrequency (RF) Emitter Information.

Bldg. # or Location	Equipment Type	Antenna Name	Pulse Width (ms)	Average Power (W)	Peak Power (W)	Frequency (MHz)	Antenna Gain (dB)	Equipment Certification Number (JF/12)

2.10.12.1. Each organization will provide a copy of a local “Authorized to Radiate” letter signed by the 377 MSG/SCOT and/or a copy of an RFA that has been coordinated through the KAFB Spectrum Office.

2.10.12.2. Each organization will schedule and coordinate RF use with the 377 MSG/SCOT in addition to the RSC schedule. This will allow the 377 MSG/SCOT to coordinate spectrum use with the DoD Area Frequency Coordinator (AFC) for any system, including airborne operations, within the AFC’s Area of Responsibility (AOR) – paying particular attention to the radio horizon where it extends into the DoD AFC geographical boundaries – (Reference Para 2.2.3.3 of AFI 17-220, *Spectrum Management*).

2.10.13. Will ensure a valid AEHD-AQD permit is obtained prior to conducting any open burn/open detonation activities on KAFB ranges. A KAFB internal application for detonations less than 2,000 pounds (lbs) must be submitted to 377 MSG/ 377 MSG/CEIE Air Quality personnel at least 48 hours prior to the scheduled event. For events greater than 2,000 lbs, DoD organizations must contact 377 MSG/ 377 MSG/CEIEC Air Quality personnel ten working days prior to the scheduled event for permit application preparation.

2.10.14. Each DoD organization firing weapons on any KAFB range will report ammunition information (to include stock number, round description, quantity expended) to 377 MSG/ 377 MSG/CEIEC to comply with EPCRA-TRI reporting requirements. The organization will also turn in KIRTLANDAFB Form 600, after range use to 377 MSG 377 MSG/CEIEC.

2.10.15. DoD units will complete and submit to 377 MSG/ 377 MSG/CEIEC an AF Form 813 IAW National Environmental Policy Act (NEPA), when determined to be necessary. Determination of this requirement will be coordinated through the 377 MSG/, NEPA Program Manager.

2.10.16. Will release any backup days not required.

Chapter 3

RM/SYSTEM SAFETY REVIEW PROCESS

3.1. RM Assessment. All organizations conducting test and evaluation programs, training exercises involving use of explosives, or directed energy will perform RM assessments. All RMs for explosive exercises will meet all criteria in DESR6055.09_AFMAN 91-201, *Explosives Safety Standards*. RMs are not required if test and exercise operations are covered under a range standard operating procedure and/or an explosive safety site plan. Based on mission requirements, assess risks to people, equipment, facilities, and the environment. Identify and implement control measures to mitigate risks to an acceptable level. Includes organizations performing small unit maneuvers, land navigation training, etc. This includes activities that are not using explosives.

3.2. Risk Assessment (RA) Process. All DoD organizations conducting test and evaluation programs will coordinate RM assessments through organizational directors and submit to 377 ABW/SEW for review; 377 ABW/SEW will forward to 377 ABW/SEG for review of ground issues and then to the appropriate level for approval. RM assessments must be maintained as a “living document” by the user, and updated as necessary, throughout the life cycle of the test, evaluation program, or training exercise. Approved RMs will, once approved and signed by the unit Commander, will be forwarded to and maintained by 377 ABW/SEW.

3.3. Safety Review Process. For Test Safety Review Process, refer to AFI91-202_AFGSCSUP, *The US Air Force Mishap Prevention Program*, Chapter 13.

Chapter 4

TEST RESTRICTIONS

4.1. Fire Danger. Operations during Very High and Extreme fire danger conditions will be evaluated and conducted based upon mission requirements and impact. An RM will be submitted to 377 ABW/SEW for review. Tests with high probability of starting a fire will not be conducted if sustained winds are over 25 miles per hour (mph) during Very High and Extreme fire danger without taking approved measures to prevent a wild fire. Review will include 377 MSG/CEF.

4.1.1. Stage I Fire Restrictions.

4.1.1.1. Range Masters need to be reviewing their plans to prevent inadvertent fires caused by explosives operations and be prepared should we move into State 2 Restrictions. Any organizations using GBS and smokes need to ensure these devices are placed in 55 gallon drums cut in half or an equivalent measure to ensure devices do not ignite an inadvertent fire.

4.1.2. Stage II Fire Restrictions.

4.1.2.1. Must have on hand 5 pressurized water extinguishers which will be located in close proximity to the scheduled event. Back pack water pumps, water trailers/trucks can also be used. ABC fire extinguishers will not be used to extinguish brush fires.

4.1.2.2. Must have 5 full sized shovels and rakes.

4.1.2.3. Must have communications to be able to contact the Fire Department through 911. Cell phone users must dial 853-9111 to reach Fire Department and Security Forces.

4.1.2.4. All fires must be reported to the Fire Department even if the agency was able to put the fire out.

4.1.2.5. All explosive operations must cease if winds are 25mph or higher. GBS and smoke grenades must be placed in metal container when deployed.

4.1.2.6. All agencies must submit a Risk Management plan specifically addressing fire prevention to both Range Management Office and Weapons Safety Office prior to conducting a scheduled event if the event includes any type of pyrotechnic device.

4.1.2.7. These requirements do not affect Thunder Range, 9920, 9930 or 9940 since these ranges are clear of combustible vegetation.

4.1.3. Stage III Fire Restrictions. All range operations will cease all explosive operations and any directed energy events that have the possibility to ignite a fire. Agencies may submit exceptions to this if these restrictions cause severe disruption to testing schedules. These exceptions must include details of the event and additional precautions that will be implemented. The 377 ABW Commander will make a final determination to approve such exceptions based on input from key agencies.

4.2. Low Visibility. Class IV or V tests will not be conducted when visibility is less than 5 nautical miles (5.75 statute miles) or the ceiling is less than 1,000 feet above the highest altitude of expected fragmentation at the test site. No projectile is to enter any cloud formation since overcast or heavy cloud cover could conceal an aircraft.

4.3. Meteorological Conditions. Class IV or V tests will not be conducted when meteorological conditions favor sound wave propagation that could be hazardous to personnel or cause property damage. All test agencies will perform evaluation of sound-wave propagation conditions. Contact base weather office, 846-9707, for information.

4.4. Air Quality Alerts. Applicable from 1 October through end of February each year. Refer to the City of Albuquerque Air Quality web site at <http://www.cabq.gov/airquality/noburn.html> or call 505-768-BURN (2876), or contact Environmental Management, Compliance (377 MSG/CEANC) for information regarding No-Burn days prior to conducting all outdoor explosive tests.

4.4.1. No-Burn Days. Applicable from 1 October through end of February each year. Call 505-768-BURN (2876), or contact 377 MSG/CEIEC Environmental Management, Air Quality Program (kirtlandairquality@us.af.mil) for information regarding No-Burn Days prior to conducting all outdoor explosive tests. No explosive event(s) may occur if the City has issued a No-Burn day.

4.4.2. Health Alerts. Text ABQHealth to 226-787, or contact 377 MSG/CEIEC Environmental Management, Air Quality Program (kirtlandairquality@us.af.mil) for information regarding Health Alerts prior to conducting all outdoor explosive tests. No explosive event(s) may occur if the City has issued a Health Alert.

4.5. Spotters. Spotters will be used for all Class I through VI tests, sled track tests, and training exercises where explosives items are used. Spotters will have communications with the project officer or test coordinator. Suspend or terminate test activities if personnel, vehicles, or aircraft approach or enter the hazard area.

4.6. Combat Arms Training and Maintenance (CATM) Range East (M-60) Range. Due to the remote location and limited access for firefighting operations, the following restrictions are established on the CATM Range East:

4.6.1. Tracer ammunition will not be fired at any time.

4.6.2. Organizations will provide ammunition stock numbers (if not on the unit's AF Form 2047, *Explosive Facility License*, or established program like the 58 Special Operations Wing (58 SOW) "War Wagon") to 377 ABW/SEW for review and approval prior to each firearms training session.

4.6.3. A minimum of 5 water filled (or equivalent pressurized) fire-extinguishing devices will be on hand during each firing session.

4.6.4. Shovels and rakes will be on-hand during all sessions.

4.6.5. Firing line and impact areas around targets will be kept brush free.

4.6.6. Minimum manning requirements for live fire training will be two personnel and will be on official business.

4.6.7. Certified Range Officer (CRO) must have communication link to emergency responders.

4.6.8. Conduct sweeps of the range and surrounding perimeter after training is completed to ensure there are no hot spots. A one hour presence is required after the range goes cold.

4.6.9. Red Flag will be flown indicating the range is active. During night operations the red beacon must be powered to identify the range is active.

4.6.10. The range will be cleaned up of all brass and trash after each training session.

4.6.11. All visiting units will be trained on RSO and CRO by 377th Weapons System Security Squadron, Combat Arms.

Chapter 5

RANGE SCHEDULING

5.1. Overview. CFA shall be scheduled on the basis of a priority system that gives equitable consideration to all Government Agencies. 377th Security Forces Group (SFG) will have priority on their range, CATM Range East.

5.2. Required Information. Depending on the location of the test/operations, submit the following forms/documents:

5.2.1. RSC Test/Exercise Schedule in Excel format (See [Figure 2.1](#)). Requests not in proper format are subject to return and delay of test.

5.2.2. Send Risk Assessment to 377 ABW/SEW on Air Force Form 4437, or Army, Navy, Marine Corps equivalent.

5.2.3. Request for environmental Impact Analysis. DoD controlled areas: Submit an AF Form 813 via the AF 813 Tool at <https://intelshare.intelink.gov/sites/USAFNEPA/Module/Page.aspx> and select Request type - Training and Flight Operations in the drop down.

5.2.4. Request for Environmental Impact Analysis. DOE controlled areas: NNSA/SFO approves the DOE Environmental Checklist. Contact NNSA/SFO Environmental Team Leader at 845-5542 for the required forms and approval.

5.2.5. Mishap Response Plan. Mishap Response plans will have the following information at a minimum, if not included in the Test Plan/RM or RA:

5.2.5.1. Specific location.

5.2.5.2. Most direct route to location.

5.2.5.3. Operation being performed (explosives/hazardous materials involved, navigation, etc).

5.2.5.4. Emergency reporting procedures (who will report, how will it be reported, escorts required to remote location, etc.).

5.2.5.5. Type emergency response required (medical, fire, air evacuation). **NOTE:** For emergency requests via cell phone, dial 853-9111.

Chapter 6

NOTIFICATIONS

6.1. Overview. Notification checklists will be tailored to location, organizations affected, hazards, and operation being performed. **NOTE:** If an unscheduled emergency Class I through V disposal operation is required, the agency involved will call 377 ABW Range Management Office, 853-5295, and run appropriate telephone notification checklist.

6.2. Notices to Airmen (NOTAM). Test plans for unique tests and Class III through VI tests will be reviewed by the FAA for determination of NOTAM requirements (through monthly RSC meeting or E-mail). If the FAA determines a NOTAM is required, the test program manager will call in or E-mail the NOTAM, to FAA Flight Service Office. Information must include date, time, location, and altitude. Disseminate this information as an “L” series NOTAM.

6.3. Telephone Notifications. Responsible agencies will notify affected agencies for Class III through VI and sled track operations by running the telephone notification checklist.

Table 6.1. Notification Format Example.

REQUIRED INFORMATION	EXAMPLE
Organization	377 MSG/CED
Test date and time	01 Apr 21, 1100L
Areas Affected	Aux Field,
Location (Test Site and Grid Coord)	Chestnut, 589690
Class of Test (I through VI or A/B for sled track)	V
Net Explosive Weight	50 lbs
Hazard	Blast/Fragment radius in feet for all hazards 1250 feet/Blast, Smoke/Fire/Dust, flash/fireball etc.
Hazard distances for directed energy tests	Non-eye safe within 50 meters, kilometers, etc.
Person making notification	MSgt Smith, 846-5555

6.4. Unscheduled Tests/Operations and Changes. Time critical unscheduled tests or operations will be approved on a case-by-case basis. Submit requests via approved electronic format to 377 ABW/XPR for review and submittal to the RSC. (377ABW.XP.RangeMgmtOffice@us.af.mil). Schedule changes need to be submitted by 0800 the day before for review and approval. Submit any new test or operations at a minimum of three duty days prior to the event for review and approval.

Chapter 7

CHESTNUT TEST SITE PROCEDURES

7.1. Overview. Formal cooperation outlined herein specifically addresses scheduling of range, test site preparations, test bed locations, notification of testing, Safety, Security, post-test clean-up and overall test coordination among parties involved. Use of Chestnut Test Site will be in compliance with this instruction and the requirements set forth in the MOU between the 377 ABW, DOE, the DTRA, and the AFRL

7.2. Range Scheduling. The Test Office (AFRL/RDMT) will be the central POC for scheduling all tests conducted on Chestnut Test Site. This is to include work performed by contractors on test and non-test days. Agencies are required to provide a POC and an escort for contractor personnel working on the range. The responsible test organization must also schedule their activity with RSC.

7.3. Test Site Preparations. Coordinate with AFRL/RDMT and 377 ABW/XPR prior to accomplishing any preliminary tests, construction, demolition, installation, demonstration or exercise activity. Any modification of the range or large construction effort will be coordinated with AFRL/RDMT, 377 ABW/XPR, and DTRA/RD-EC.

7.3.1. Digging and hot work permits must be obtained from the appropriate 377 ABW organization prior to performing those activities. Installation or construction of permanent occupied facilities is not authorized.

7.3.2. Prior to the start of any test series all explosive safety operating plans (SOP) will be submitted to AFRL for review. This requirement will eliminate planning of actions that are not permitted on the range or conflict with another test series.

7.4. Test Site Locations. Three criteria will be considered when choosing a test location on Chestnut Range. They are:

7.4.1. The proposed action at the selected location must be consistent with the Environmental Assessment, for the area.

7.4.2. The air blast, fragmentation, ground shock, or ejecta from the proposed action must not damage surrounding unprotected buildings, subject personnel to possible injury, damage optics at SOR, or misalign heliostats at the Solar Power facility. Net Explosive Weight (NEW) used will comply with the explosives site plan.

7.4.3. The proposed location must have a suitable geology for the test. See [Attachment 4](#) for test site locations.

7.5. Safety. Test organizations must prepare and submit a SOP and RM/hazard analysis for each explosive operation to AFRL/RDMT and to 377 ABW/SEW. The parties involved will comply with all applicable DoD and AF safety regulations and standards, in addition to the following safety responsibilities.

7.5.1. The Organization conducting tests will ensure all personnel are evacuated to a safe location at time of detonation or when required by specific test SOP.

7.5.2. Personnel evacuated will not reenter the evacuation zone until the organization conducting the test has given an all-safe notification.

7.6. Post-Test Clean-up. Each test organization is responsible for cleaning up the test bed at the conclusion of the test series. This will help reduce remediation costs if the range ever becomes inactive and requires clean-up. No hazardous wastes/ammunition residues, etc., will be left at any test site on KAFB property. Clean-up must occur after each single event or at the end of a series of events on the same day. Residues should not be left overnight. AFRL, 377 ABW/XPR and DTRA/RD-EC will meet annually to discuss ongoing and future activities to ensure programs are not competing for the same time or space.

7.7. Overall Coordination.

7.7.1. Overall coordination and test notification will be IAW this instruction. Proper overall coordination efforts are needed to ensure safety and efficient management of test programs.

7.7.2. When conducting a test program where the clear zone, fragmentation zone or a directed energy type test overlaps into a different range or area, the Test Director will coordinate directly with the affected personnel. This will ensure timely and efficient communications are made which will enhance safety and overall test operations.

7.7.3. The principal parties shall meet as required to discuss the operations to date, problems encountered, and ways to improve the test operations in the future.

7.7.4. Modification or changes to the range must be coordinated and approved through 377 ABW/XPR, AFRL/RDMT and DTRA/RD-EC.

Chapter 8

SMALL UNMANNED AERIAL SYSTEM OPERATIONS

8.1. Overview. There are currently four agencies on the installation that conduct Small Unmanned Aerial System (SUAS) operations. All agencies requesting to perform SUAS operations must route requests through the Range Management Office. The Range Management Office will ensure the agencies are aware of all requirements to fly SUAS on KAFB to include establishing an MOU.

8.2. Affected Agencies. DOE, Joint Navigation Warfare Center, DTRA and AFRL are the current agencies conducting SUAS operations. All future agencies must coordinate with the RMO and abide by the following requirements in order to fly SUAS on KAFB.

8.3. Agency Requirements.

8.3.1. Must obtain a Certificate of Waiver or Authorization (COA) or a Part 107 certificate from the FAA for SUAS flying in National Air Space.

8.3.2. Must establish Concept of Operations (CONOPS) approved and signed by the first O-6/GS-15 or equivalent in the chain of command.

8.3.3. Must obtain frequency approval for each type of SUAS the unit will be flying through the 377 MSG/SCOT.

8.3.4. Must submit a comprehensive RM Plan approved and signed by the agency commander to 377 ABW/SEW for review. If the agency makes any changes to their CONOPS, they must resubmit an updated RM to Weapons Safety and 58 SOW/SE for approval.

8.3.5. Must submit AF 813 via the AF 813 Tool at <https://intelshare.intellink.gov/sties/USNEPA/module/page.aspx> and select Request Type – Training and Flight Operations in the dropdown.

8.3.6. Must submit range request to Range Management Office for dates and times of SUAS operations at least 72 hours prior to schedule flight.

8.3.7. Must file a NOTAM with the FAA Flight Service Office 24 hours prior to SUAS operations.

8.3.8. Notify WSSS/ Site Security Control Center (SSCC) and SFS/ Base Defense Operations Center (BDOC) prior to and upon completion of flying operations by calling SSCC at 846-1478/1323 and BDOC at 846-7913/7926.

8.3.9. Must abide by CJCSI 3255.01, *Joint Unmanned Aircraft Systems Minimum Training Standards*, 31 October 2011 and the FAA/DoD MOU for SUAS operations.

8.3.10. Parties must create a Proper Use Memorandum (PUM) that addresses where they will operate and what the intended use of all video/photographic products collected will be.

8.4. Restricted Areas. There are a number of areas on the installation where still photos and video are prohibited. Agencies must ensure they are not taking any video or photos of the following areas.

- 8.4.1. Kirtland Underground Munitions Maintenance and Storage Complex.
- 8.4.2. The entire length of Munitions Haul Rd.
- 8.4.3. The entire runway complex to include parking ramps and Pad 5.

JASON F. VATTIONI, Colonel, USAF
Commander

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

AFMAN 13-212 V1, *Range Planning and Operations*, 22 June 2018

DAFI 17-220, *Spectrum Management*, 8 June 21

AFI 91-202, *The US Air Force Mishap Prevention Program*, 12 March 2020

AFI91-202_AFGSCSUP, *The US Air Force Mishap Prevention Program*, 14 December 2020

AFI 33-332, *Records Management and Information Governance Program*, 23 March 2020

DESR6055.09_AFMAN 91-201, *Explosives Safety Standards*, 28 May 2020

FAA Handbook 7400.2, *Procedures for Handling Airspace Matters*, 10 March 2011

CJCSI 3255.01, *Joint Unmanned Aircraft Systems Minimum Training Standards*

Prescribed Forms

KIRTLANDAFB Form 600, *Firing Range Usage Log*

Adopted Forms

AF Form 813, *Request for Environmental Impact Analysis*

AF Form 847, *Recommendation for Change of Publication*

AF Form 2047, *Explosive Facility License*

Abbreviations and Acronyms

377 ABW/CC—Commander

377 ABW/CP—Command Post

377 ABW/SEG—Ground Safety

377 ABW/SEW—Weapons Safety

377 ABW/XP—Plans and Programs Office

377 ABW/XPR—Range Management Office

377 MSG/CEANC—Environmental Management, Compliance

377 MSG/CECR—Civil Engineering Real Property Office

377 MSG/CED—Explosives Ordinance Disposal

377 MSG/CEF—Fire Department

377 MSG/CEIEC—Environmental Management

377 MSG/SCOT—Installation Spectrum Manager

377 WSSS/SSCC—Weapons System Security Squadron, Site Security Control Center

58 SOW—Special Operations Wing

ABW—Air Base Wing

AEHD-AQD—Albuquerque Environmental Health Department-Air Quality Division

AF—Air Force

AFI—Air Force Instruction

AFC—Area Frequency Coordinator

AFMAN—Air Force Manual

AFMC—Air Force Material Command

AFRC—Air Force Reserve Command

AFRL/RDMT—Test Office

AFRIMS—Air Force Records Information Management System

AFRL—Air Force Research Laboratory

AMO—Assistant Manager for Operations

ANG—Air National Guard

AOR—Area of Responsibility

BDOC—Base Defense Operations Center

CATM—Combat Arms Training and Maintenance

CE—Civil Engineer

CFA—Controlled Firing Area

COA—Certificate of Waiver or Authorization

CONOPS—Concept of Operations

RM—Risk Management

CRO—Certified Range Officer

CV—Vice Commander

DA—Department of Army

DoD—Department of Defense

DOE—Department of Energy

DSN—Defense Secure Network

DTRA—Defense Threat Reduction Agency

EOD—Explosive Ordnance Disposal

EPCRA-TRI—Emergency Planning and Community Right-to-Know Toxic Release Inventory

ES&H—Environment, Safety & Health

EW—Electronic Warfare
FAA—Federal Aviation Administration
GBS—Ground Burst Simulators
GRABS—Giant Reusable Air Blast Simulator Site
HERTF—High Energy Research Test Facility
IAW—In Accordance With
KAFB—Kirtland Air Force Base
LBS—Pounds
MCEB—Military Communication Electronics Board
MOA—Memorandum of Agreement
MOU—Memorandum of Understanding
MSG—Mission Support Group
NEPA—National Environmental Policy Act
NEW—Net Explosive Weight
NMAC—New Mexico Administrative Code
NOTAM—Notices to Airmen
NNSA—National Nuclear Security Administration
OI—Operating Instruction
OPR—Office of Primary Responsibility
POC—Point of Contact
PUM- RA—Risk Assessment
RDS—Records Disposition Schedule
RFA—Radio Frequency Authorization
RM—Risk Management
ROA—Range Operating Authority
RSC—Range Scheduling Committee
RSO—Range Safety Officer
RF—Radio frequency
SFG—Security Forces Group
SFO—Sandia Field Office
SIPRNET—Secret Internet Protocol Router Network
SNL—Sandia National Laboratories

SOP—Safety Operating Plan

SOR—Starfire Optical Range

SUAS—Small Unmanned Aerial System

UTM—Universal Transverse Mercator

UXO—Unexploded Ordnance

Terms

Auxiliary Helicopter Training Field (Aux Field)—Helicopter staging field used by 58 SOW to conduct day and night flight maneuver operations for basic pilot flight and emergency procedures. **NOTE:** When Aux Field is used on CFA Committee schedule as an affected area, Aircraft will stay off Aux Field while a test of 75 lbs or any test with fragmentation is in progress – Between 10 minutes prior and test complete notifications.

Cancellation—Problem cannot be corrected during the scheduled date. Run applicable telephone notification checklist; reschedule test through normal RSC process.

Chestnut Explosive and Fragmentation Limits—See Explosive Site Plans Air Force Materiel Command (AFMC)-Kirtland 01-S01 through S08):

CN1 Disposal Range Non fragmenting—55 lbs NEW 1250 ft clear zone required 1251 ft established Explosives testing restricted from line designated as CN1 to north boundary of CN2

CN2 Disposal Range Non fragmenting—75 lbs NEW 1384 ft clear zone required 1397 ft established Explosives testing restricted from line designated as CN2 to north boundary of CN8

CN3 Disposal Range Non fragmenting—100 lbs NEW 1523 ft clear zone required 1533 ft established Explosives testing restricted from line designated as CN3 to north boundary of CN8

CN4 Disposal Range Non fragmenting—250 lbs NEW 2067 ft clear zone required 2077 ft established Explosives testing restricted from line designated as CN4 to north boundary of CN8

CN5 Disposal Range Non fragmenting—500 lbs NEW 2604 ft clear zone required 2613 ft established Explosives testing restricted from line designated as CN5 to north boundary of CN8

CN6 Disposal Range Fragmenting—1000 lbs NEW 3280 ft clear zone required 3283 ft established Explosives testing restricted from line designated as CN6 to north boundary of CN8

CN7 Disposal Range Fragmenting—Munitions greater than 5 inch 1813 lbs NEW 4000 ft clear zone required 4010 ft established Explosives testing restricted from line designated as CN7 to north boundary of CN8

CN8 Disposal Range Fragmenting—Munitions greater than 5 inch 2000 lbs NEW 4133 ft clear zone required 4140 ft established Explosives testing restricted to CN8 only

Chestnut “No Fly” Zone—Aircraft will stay west of Chestnut Test Site and Slide D during testing (crash grid coordinates 582682 to (at 0* GN) 582708) for 8 lbs fragmenting charges and 75 lbs non-fragmenting charges.

Controlled Events—Any operation other than explosives or directed energy tests that require personnel or equipment to be within or near a CFA. Includes training maneuvers, environmental surveys, and flight operations.

Controlled Firing Area—Any open outdoor area where tests and/or training exercises are conducted within the boundaries of KAFB.

Controlled Tests—Any explosives or directed energy tests or experiments, explosives disposal operations, or field explosives demonstrations, conducted on KAFB that may create a visual or sound disturbance or hazard to personnel, equipment, structures, or aircraft flying in the area.

Coordinating Agency—Agency responsible for processing the advance written notifications and ensuring there are no conflicts between agencies conducting Controlled Tests or Controlled events. 377 ABW/XPR along with DOE/NNSA are the coordinating agencies for all DOD and DOE and NNSA organizations including DOD and DOE contractors who use the CFA. NNSA/SFO is a Co-Chair on the RSC.

Directed Energy Tests—Any outdoor event that involves laser or high power microwave energy.

Fire Danger Rating—Fire danger level takes into account current and antecedent weather, fuel types, and both live and dead fuel moisture. Potential fire hazards established daily by Sandia Ranger District of the US Forestry Service: <http://www.fs.fed.us/land/wfas/wfas23.html>.

NOTE: Sandia Ranger District of the U.S. Forestry Service recommends KAFB (to include withdrawn area) to be one level above the Cibola National Forest Fire Danger Rating. KAFB will never be at a low Fire Danger Rating.

Moderate/High—Restricts fires and smoking to developed test sites. Use of pyrotechnics or Blank/SIM ammunition will be permitted on the developed test sites in approved sandbagged/pitted areas and on the black-top of “No Sweat Boulevard”; vehicles are restricted to paved or dirt roads or low-grass areas.

Very High—Restricts fires, smoking and pyrotechnics. Smoking is permitted in non-Government vehicles or approved smoking areas only. Use of pyrotechnics is permitted only in approved sandbagged/pitted areas; vehicles are restricted to paved or graded roads. “Burn Site” testing that emits embers with sufficient thermal capacity to start a fire outside of the cleared facility area is not allowed. Welding operations restricted to areas cleared of weeds and other materials capable of burning, to 35 feet.

Extreme—Restricts fires, smoking and pyrotechnics. Use of pyrotechnics will be approved on a case-by-case basis to meet critical mission requirements. “No Sweat Boulevard” is off limits to everyone (even if they are not using pyrotechnics) unless specifically authorized by the DOE, NNSA Sandia Field Office. Suspend non-essential testing operations. No testing at Burn Site that emits embers with sufficient thermal capacity to start a fire outside of the cleared facility area. Welding operations restricted to indoor areas or areas that have been shielded by partitions or welding drapes.

HOLD Condition (Delay)—Problem requires more than 60 minutes but can be corrected during the scheduled date—test will be placed in a delay status, run applicable telephone notification checklist.

J/F 12—Frequency Equipment Allocation number given by the MCEB J-12 working group.

KAFB Test and Training Site—Areas identified within the boundaries of KAFB where explosives, laser, and microwave energy research and development testing, training maneuvers, or weapons qualifications are conducted (See [Attachment 4](#)).

Manzano Mountain Controlled Firing Area (MMCFA)—The airspace designated to contain activities that if not conducted in a controlled environment could be hazardous to nonparticipating aircraft. CFAs provide a means to accommodate, without impact to aviation, certain hazardous activities that can be immediately suspended if a nonparticipating aircraft approaches the area. The responsibility lies totally with the CFA user to terminate activities so that there is no impact on aviation (a dedicated spotter will meet this requirement.) There is no requirement for nonparticipating aircraft to avoid the airspace, nor are any communications or Air Traffic Control separation requirements imposed.

Misfire—A misfire occurs when the explosives fail to detonate or partially detonate. An electrical misfire will not be approached for at least 30 minutes after power has been supplied to explosive components. When non-electrical misfires occur, a 1-hour wait time will be observed from the expected detonation or ignition time.

Net Explosive Weight—The total quantity expressed in lbs, of explosives material or pyrotechnics in each item or round; will be expressed in trinitrotoluene (TNT) equivalency.

Notice to Airmen (NOTAM)—A notice containing information (not known sufficiently in advance to publicize by other means) concerning the establishment, condition, or change in any component (facility, service, or procedure of, or hazard in the National Airspace System), the timely knowledge of which is essential to personnel concerned with flight operations. NOTAM (L) provides local dissemination by voice and other means, such as E-mail and telephone, to satisfy local user requirements.

RM/System Safety Review—The systematic process of identifying hazards, assessing risk, analyzing risk control options and measures, making control decisions, implementing control decisions, accepting residual risks, and supervising/reviewing the activity for effectiveness. It is a living document that will be updated and changed annually or as applicable. (Contact 377 ABW/SEW for assistance.)

Test Classes—Standardized method of hazard identification to surrounding personnel and/or operations. Classes are established by Net Explosives Weight (NEW), explosives type, sled tracks, directed energy tests, and experiments. (These categories will be used when scheduling RSC activities.)

Class I—Visual or sound disturbances only, no probability of projectiles or other damaging phenomena. This class includes explosives ordnance disposal (EOD) cartridge actuated tools, thermite grenades, Blank/SIM ammunition, smoke grenades, bivouac operations.

Class II—Minor blast effect, projectiles not propelled beyond 300 feet. Maximum NEW equals 10 lbs of uncased explosives. This class includes C-4, trinitrotoluene (TNT), Data Sheet, blasting caps, detonating cord, blast simulators, or any uncased bulk explosives. Shape charges may or may not be considered cased munitions depending on design. Thin-cased shaped charges may be used and not considered fragment producers as long as they are in a position to not fire the jet upward.

Class III—Overpressure, projectiles, or other phenomena that may be a hazard to unprotected personnel and equipment or airborne aircraft within 500 feet of the detonation point. Maximum NEW equals 64 lbs of uncased explosives on the surface or buried. (This includes the same items listed in Class II.)

Class IV—Overpressure, projectiles, or other phenomena that may be a hazard to unprotected personnel or equipment, and airborne aircraft more than 500 feet from the detonation point. Maximum NEW equals 1,000 lbs of uncased explosives or 750 lbs of NEW cased munitions on the surface or buried. (This includes the same items listed in Class II and III and cased munitions such as projectiles and general-purpose (GP) bombs.)

Class V—Includes phenomena listed for Class IV and may also induce major ground shock or sound waves that could cause damage or noise complaints. Includes all detonations over 1,000 lbs NEW uncased explosives on the surface or buried.

Class VI—Directed energy type tests that include high power laser and high power microwave tests that have the potential to injure personnel or damage equipment.

Class VII—Directed energy type tests that include high power laser and high power microwave tests listed in Class VI, but also have the high explosive hazards of Class IV.

Sled Track—Sled test tracks have the capability to test captive, launch into free flight, and impact test under accurately programmed, closely controlled, and rigorously monitored conditions.

Type A—The sled exceeds 700 feet per second with hazards existing outside Sandia Tech Area 3 to include Chestnut Test Site and the Aux Field (base grid map coordinates; 579725 to (at 0* GN) 580756).

Type B—The sled does not exceed 700 feet per second and no hazards exist outside Sandia Tech Area 3 (base grid map coordinates; 591726 to (at 0* GN) 591736) or Cable Site (base grid map coordinates; 703730).

Radio Frequency Spectrum—The RF spectrum includes the frequencies from 3.0 kHz to 400 GHz. The presently allocated spectrum is from 9 kHz to 300 GHz.

Responsible Agency—The agency or organization conducting a test, demonstration, training exercise, or survey.

Range Scheduling Committee (RSC)—Representatives of units and agencies that routinely use test or training areas or direct tests on KAFB.

Range Safety Officer (RSO)—Test Director/Manager will be appointed as the RSO responsible for safety and surveillance of the area. A safe zone/cordon will be maintained prior to and during the time that explosive detonations or directed energy tests are in progress, as mandated by regulations/instructions.

Attachment 2

RANGE SCHEDULE COMMITTEE (RSC) CORE MEMBERS

Table A2.1. RSC Core Members.

ORGANIZATION	ROLE	TELEPHONE
377 ABW/XPR Range Management Office	Co-Chairperson	853-5295
DOE/NNSA/Sandia Field Office Assistant Manager, ES&H Office DOE/NNSA/ Sandia Field Office Assistant Manager for Operations (AMO) Office	Co-Chairperson	845-4320
377 ABW/SEW Weapons Safety Office	Co-Chairperson	846-9142/846- 4229
58 OSS/DOO [Airspace Management] (Auxiliary Helicopter Training Field)	Core Member	853-5979
377th Weapons System Security Squadron/Combat Arms (M-60 Range)	Core Member	846-6102
AFRL/RDMT Directed Energy Directorate, Test Office	Core Member	846-7734
AFRL/Det 8 SE, AFRL Safety Office	Core Member	846-1676
DTRA RD-EC Safety and Test Scheduling	Core Member	846-2869/853- 0946
FAA/TWR Control Tower	Core Member	856-4900 846- 4903
377 SFS/377 WSSS Security Forces Air Base Defense Area (ABD) and Obstacle Course.	Core Member	853-8600
DOE/NNSA Office of Secure Transportation, Safety	Core Member	845-4818
Forestry Service (Sandia Ranger District)	Core Member	281-3304
SNL – (1534) Mechanical Environments, Validation and Qualification Sciences	Core Member Co-Core Mbr	844-2473 844-6229
SNL – Explosives Safety SME (4122)	Core Member Co-Core Mbr	844-8352 284-9307
DTRA Test Support Contractor: (Applied Research Associates)	Core Member	846-1704

377 MSG/CED	Core Member	846-2229
(NTC) (DOE live fire Range)	Core Member	845-5170
377 ABW/SEG	Core Member	846-4227
377 MXG/MXOA	Core Member	846-8335
377 MSG/CEF (KAFB Fire Dept)	Core Member	846-8290
150 SOW/SE NMANG	Core Member	846-6715
SNL (DEPT 2556) Terminal Ballistic Facility (Gun Site)	Core Member	284-2787

Attachment 3

TELEPHONE NOTIFICATION CHECKLIST

Table A3.1. Telephone Notification Checklist.

Contact	Phone Numbers	Person Contacted
24 Hours Prior		
SNL Security (Pro Force)	845-3114/844-4657	
377 MXG/MXOA	846-8335/8337	
377 MSG/CEF (KAFB Fire Department) * if test is near Fire Station #4	846-8069	
AFRL/RDS (Star Fire Optical) *if test is near SOR	846-7897	
Solar Tower	845-3426	
58 SOW Flight Operations	846-9482/846-0160	
SNL Only: Air Quality (E-Mail and Fax) Media relations (E-mail and phone call)	768-1977 264-9227	
10 Minutes Prior		
58 SOW Flight Operations	846-9482/0160/0143	
377 ABW/CP (KAFB Command Post)	846-3776/3777	
377 MSG/CEF (KAFB Fire Department)	846-8069/6365	
377 ABW/PA – *if test is over 100 lbs	846-5991	
377 WSSS/SSCC (Site Security Control Center)	846-1478/1323	
AFRL/RDS (Star Fire Optical) *if test is near SOR	846-7897	
Traffic Control Tower (TRACON)	99-856-4935/ 4900 /4903/4904	
Solar Tower	845-3426/844-3600	
Immediately After		
377 ABW/CP (KAFB Command Post)	846-3776/3777	
58 SOW/WOC (58th SOW Flight Operations)	846-9482/0160/0143 9482/0160/0143	
377 ABW/XPR (Range Management Office) All tests explosive tests over 100 lbs and any test that will draw public interest.	853-5295	
AFRL/RDS (Star Fire Optical) *if test is near SOR	846-7897	
377 WSSS/SSCC (Site Security Control Center)	846-1478/1323	

As Applicable		
SNL Security (Pro Force)	845-3114/844-4657	
Environmental	846-6446	
377 MSG/CEF (KAFB Fire Department)	846-8069 /846-6365	
NOTE: Notification to KAFB Command Post, 377th Security Forces, KAFB Fire Dept., and Range Management Office is mandatory. Depending on test location and whether or not flight or Star Fire Optical is affected, contacts may be added or deleted as necessary.	846-3777, 846-7913/846-7926, 846-8069 /846-6365, 853-5295	

Attachment 4

CONTROLLED FIRING AREAS

Table A4.1. Controlled Firing Areas.

Range #	Universal Transverse Mercator (UTM) Grid Coordinates	AREA	USE	CONTROLLING AGENCY	PHONE
1	665730	Old 377 SFG Air Base Defense (ABD) Training Area	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	377 ABW/XPR	853-5295
2	653716	Explosive Ordnance Disposal (EOD) Range	(INACTIVE) Open detonation and open burning	377 MSG/CED	846-2229
3	643725	377 ABW Training Area: Old Bivouac Area 4 Training Site	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	377 ABW/XPR	853-5295
4	652692	Giant Reusable Air Blast Simulator Site (GRABS)	Explosives Research and Development Testing	DTRA RD-ECS Test Site Manager	846-5569
5	645702	: Old BOP Site	EOD Proficiency Training	21 ORD Co	853-7269
	647701	EOD Training Range 7001	EOD Proficiency Training	21 ORD Co	853-7269
	648700	EOD Training Range 7002	EOD Proficiency Training	21 ORD Co	853-7269
6	628693	58 SOW Isleta Training Drop Zone	Training drops from C-130 aircraft	58 SOW Airspace Manager	853-5979

7	598698		Explosives Research and Development Testing	DOE/SNL	845- 9797
8	589690	Chestnut Test Site	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588686	Chestnut Test Site CN1	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588687	Chestnut Test Site CN2	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588687	Chestnut Test Site CN3	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588689	Chestnut Test Site CN4	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588691	Chestnut Test Site CN5	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588693	Chestnut Test Site CN6	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588695	Chestnut Test Site CN7	Explosives Research and Development Testing	AFRL/RDMT	846- 4573
	588696	Chestnut Test Site CN8	Explosives Research and Development Testing	AFRL/RDMT	846- 4573

9	638708	377 ABW Training Area around Bldg. 29012	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	377 ABW/XP	853- 4376
10	589766	DTRA Training Site TS-8	Training	Defense Threat Reduction Agency, Defense Nuclear (DNWS/CSUD)	6-0002 3-6977 3-7584
11	598769	DTRA TRNG SITE TS-4 Helo Site	Training	Defense Threat Reduction Agency, Defense Nuclear (DNWS/CSUD)	6-0002 3-6977 3-7584
12	614772	DTRA TRNG SITE TS-1; CONVOY SITE	Training	Defense Threat Reduction Agency, Defense Nuclear (DNWS/CSUD)	6-0002 3-6977 3-7584
13	603775	DTRA TRNG SITE TS-2; C130 SITE	Training	Defense Threat Reduction Agency, Defense Nuclear (DNWS/CSUD)	6-0002 3-6977 3-7584
14	605772	DTRA TRNG SITE TS-3; B52 SITE	Training	Defense Threat Reduction Agency, Defense Nuclear (DNWS/CSUD)	6-0002 3-6977 3-7584
15	570780 to (at 185* Grid North) 568768 to (at 125* Grid North) 587754	377 SFG Training Area MUNS HAUL ROAD	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	377 SFG S3T	846- 2631
16	635717	377 ABW Training Area "P" Hill	Maneuvers and training Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes.	377 ABW/XPR	853- 5295

17	608756	377 SFG Training Area Old Obstacle Course	Maneuvers and training Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes.	377 SFG S3T	846-2631
18	697709	377 SFG Training Area – CATM Range East	Weapons training	377 SFG S3T	846-6102
19	664700	SOR	Research and development	AFRL Directed Energy Directorate (AFRL/RDS)	846-7897
20	682713	AFRL HERTF	Research and development	AFRL/RDHA	846-6055
21	690743 to (at 28* GN) 707775	DOE/NNSA/ Sandia Field Office (SFO) - No Sweat Blvd	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	Sandia Field Office (SFO)/ NNSA	845-5516
22	572784	377 SFG Training Pad 5	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	377 SFG	846-2631
23		AFRL Laser Range (2K – 7.5 KM Sites)	Research and development	AFRL/RDMT	846-4573
	569776	1K			
	570764	2K			
	573743	4K			
	573728	5K			
	572719	6K			
	571710	7K			

24	677745	DOE/NNSA Firing Range	Weapons training	(NTC)	845- 5170 x 639
25	703730	DOE/SNL Cable Site	Research and development	DOE/SNL, (Dept. 1534)	844- 2473 844- 6229
26	714745	DOE/SNL Burn Site	Research and development	DOE/SNL, (Dept. 1532)	844- 2473 844- 3387
27	671727	DOE/SNL Explosives Facility Test 9990	Not Active	DOE/SNL	
28	1: 699681 2: 708709 3: 738732 4: 739701	58 SOW Helicopter Training Areas "1-4"	Maneuvers and training Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes.	58 SOW Airspace Manager	853- 5979
29	590730 (Center)	DOE/SNL Tech Area III	Research and development	DOE/SNL, (Dept. 1534)	844- 2473 844- 6229
30	606718	DOE/SNL Explosives Test Facility 9920	Research and development	DOE/SNL, (Dept. 4117)	844- 8392
31	679692	12K – Target Location	Research and development	AFRL/RDMT	846- 4573
32	613723	DOE/SNL Explosives Facility Test 9940, Area Y	Research and development	DOE/SNL, (Dept. 5915)	844- 5274
33	621719	DOE/SNL Explosives Facility Test 9960	Research and development	DOE/SNL, (Dept. 141813)	845- 3363
34	606726	DOE/SNL Explosives Facility Test 9950	Research and development	DOE/SNL, (Dept. 1647)	284- 3185

35	539786	377 MSG/CEF Fire Training Facility	Aircraft Fire Training Exercises	377 MSG/CEF	846- 8220
36	574694 (Center)	Auxiliary Helicopter Training Field (Aux Field)	Helicopter Training Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes.	58 OSS/DOO [Airspace Management]	853- 5979
37	680703	High Energy Research and Technology Facility (HERTF) Frustration Canyon	Research and development	AFRL/RDHA	846- 6055
38	624714	DOE/SNL Explosives Facility Test 9939	Research and development	DOE/SNL	845- 3264
39	614715	DOE/SNL Explosives Facility Test 9930	Research and development	DOE/SNL	845- 3264
40	655733	377 ABW Training Area: Old Bivouac Area 3 Training Site	Blank/SIM ammunition, Ground Burst Simulators (GBS), Smokes. Maneuvers and Training	377 ABW/XPR	853- 5295