

Melrose
2/9/1990

Sections E-K

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SECTION E

GROUNDWATER MONITORING

40 CFR 264.90; NM HWMR 206.D.1.A

No groundwater monitoring is required at Melrose Range; therefore,
Section E is not applicable.

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SECTION F
PROCEDURES TO PREVENT HAZARDS

The information provided in this section is submitted in accordance with the requirements of 40 CFR 270.14(b)(4), (5), (6), (8), and (9). Other regulations addressed to complete this section include 40 CFR 264.14, 264.15, 264.17, 264.194, and 264.254. New Mexico regulations addressed are 302.A.4.b.(1)(d), (e), (f), (h), and (i); 206.B.4, 206.B.5., 206.B.7., 206.D.5.d., and 206.D.7.e.

This section addresses general security provisions; inspection schedules; and the prevention of accidental ignition or reaction of ignitable, reactive, or incompatible wastes.

F.1 Security

Security procedures to be implemented in order to prevent hazards are described below.

F.1.a Security Procedures and Equipment [40 CFR 270.14(b)(4) and 264.14; NM HWMR4 302.A.4.b.(1)(d) and 206.B.4.]

A waiver of the security requirements is not requested.

F.1.a.(1) 24-Hour Surveillance System [CFR 264.14(b)(1); NM HWMR4 206.B.4.b.(1)]

Cannon AFB is responsible for onsite security to control entry at all times through the gates or other entrances to the active portion of the entire installation, as well as to the Melrose Bombing Range. All entrances are manned 24 hours per day or are locked. Proper identification is required for entry.

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F.1.a.(2) Barrier and Means to Control Entry [40 CFR 264.14(b)(2)(i) and (ii); NM HWMR4 206.B.4.b.(2)]

F.1.a.(2)(a) Barrier

The Melrose Range is surrounded by a 5-foot barbed wire fence equipped with a lockable gate.

F.1.a.(3) Warning Signs [40 CFR Section 264.14(c); NM HWMR4 206.B.4.b.(3)]

Signs with the legend "Danger-Explosive Disposal Range - Keep Out" will be posted at the entrance to Melrose Range and at intervals around the perimeter. These signs will be printed in English and Spanish.

F.1.b Waiver [40 CFR 264.14(a); NM HWMR4 206.B.4.a.]

Cannon AFB does not request a waiver.

F.2 Inspection Schedule [40 CFR 207.14(b)(5) and 264.15; NM HWMR4 302.A.4.b.(1) and 205.B.5.]

Table F.1 presents the General Inspection Schedule for inspecting safety and emergency equipment, security devices, operating and structural equipment, monitoring equipment, communication equipment, and mobile equipment at the HWSF. Items listed in Table F-1 are important because of their role in preventing, detecting, or responding to environmental or human health hazards.

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TABLE F-1

GENERAL INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of Inspections
Safety and Emergency Equipment	Fire Extinguishers	In need of recharging	Monthly/after each use
	Telephone system	Power failure	Per NFPA
	Generators	Fuel supply, spark plugs, oil	As used
	Emergency lighting system	Battery failure, lights	Per NFPA
	First aid equipment and supplies	Items out of stock or inoperative	As used
	Protective clothing (impermeable full body coveralls, gloves, and foot coverings)	Holes, normal wear and tear	As used
Security devices	Facility fence	Corrosion, damage to chain-link fence or barbed wire	Weekly

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TABLE F-1 (Continued)

GENERAL INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of Inspections
Security Devices (Continued)	Signs	Illegible	Weekly
	Container Storage building doors	Locks Missing	Weekly
	Main gate	Locking Mechanism jammed	Weekly
	Lighting	Burned out	Upon failure
Communication	Telephones	Power failure	Per NFPA
	Radios	Power failure	Per NFPA
	Fire Alarms	Power failure	Per NFPA
Mobile Equipment	Brakes	Worn, pads, rotors	Per New Mexico State Inspection Schedule
	Hydraulics	Leaking	Weekly
	Trailer Hitches	Loose, missing safety chains	Prior to each use

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TABLE F-1 (Continued)
GENERAL INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of Inspections
Mobile Equipment (continued)	Lights-Running/ Emergency	Burned out	Per New Mexico State Inspection Schedule
	Horns/Sirens	Inoperative	During use

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F.2.b Specific Process Inspection Requirements [40 CFR 270.14(b)(5) and 264.15(b)(4); NM HWMR 302.A.4.(b)(1)(e) and 206.B.5.c]

Specific process inspection items to be discussed below are for thermal treatment. Inspection of tanks, waste piles, impoundments, incinerators, landfills, and land treatment facilities are not applicable to this permit application.

F.2.b.(1) Thermal Treatment

Range decontamination and disposal procedures are included in Section D. Ordnance items on the range will be inspected before being picked up for disposal. When doubt exists as to the condition of an item, it will be considered hazardous until proven otherwise. Items are also inspected after burning. If not certified as inert, they are placed in the pit for disposal with the next clearance.

An explosive ordnance disposal report is completed for each operation. These reports include the name of the responsible person, date of disposal, start and stop times and number and type of items disposed. Copies of completed forms are included as Appendix F-1.

F.2.c Remedial Action [40 CFR 264.15(c); NM HWMR 206.B.5.d.]

If inspections reveal that non-emergency maintenance is needed, immediate action(s) will be initiated to preclude further damage and to reduce the need for emergency repairs. If a hazard is imminent, or has already occurred during the course of an inspection, or at any time between inspections, then remedial action(s) will immediately be taken.

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F.3 Waiver of Preparedness and Prevention Requirements [40 CFR 270.14(b)(6); NM HWMR 302.A.4.b.(1)(f)]

This applicant does not request a waiver of the preparedness and prevention requirements under 40 CFR 264, Subpart C. Requirements of this subpart are addressed in Section D, F, and G of this application.

F.3.a Equipment Requirements [40 CFR 264.32; NM HWMR 206.B.9.c.]

Internal and external communications, emergency and fire control equipment are discussed in Sections F and G.

F.3.b Aisle Space Requirement [40 CFR 264.35; NM HWMR 206.B.9.q.]

Aisle space requirements are addressed in Section D.1.d.

F.4 Preventive Procedures, Structures, and Equipment [40 CFR 270.14(b)(8); NM HWMR 302.A.4.b.(1)(h)]

See also Section G.5.

F.4.a Runoff [40 CFR 270.14(b)(8)(ii); NM HWMR4 302.A.4.b.(1)(h)(ii)]

Runoff is also not anticipated from the thermal treatment area. The munitions disposed of do not contain liquid. The fuel oil used for ignition is completely burned.

F.4.b Water Supplies [40 CFR 270.14(b)(8)(iii); NM HWMR4 302.A.4.b.(1)(h)(iii)]

A well for potable water is located on Melrose Range, 12,000 feet from the thermal treatment area.

F.4.c Equipment and Power Failure [40 CFR 270.14(b)(8)(iv); NM HWMR4 302.A.4.b.(1)(h)(iv)]

No automatic waste feed system will exist at this facility. In the event of a brief power interruptoin all storage activities will cease until power can be restored.

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F.5 Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes

F.5.a Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Wastes [40 CFR 270.14(b)(9) and 264.17(a) and (c); NM HWMR4 302.A.4.b.(1)(i) and 206.B.7.a. and c.]

Explosives will be handled only by trained personnel under the supervision of an individual who understands the hazards and risks involved in the operation.

Detonators, initiators, squibs, and other such electrically or mechanically actuated devices required for operations such as loading, explosive ordnance disposal, and egress maintenance will be carried in protective containers. These containers will be designed to prevent item-to-item contact and will be marked to identify the contents.

Bale hooks will be used to handle explosives. Nails may be used to secure covers or make repairs on containers only if there is no hazard of penetrating protective coverings.

Smoking is prohibited in any area containing exposed explosives. Any battery-operated lights used in locations containing exposed explosives will be approved by the U.S. Bureau of Mines or other recognized authority.

Safety requirements for munitions personnel are included in Section I, "Safety and Accident Prevention" of General Instructions for Disposal of Conventional Munitions, T.O. 11A-1-42 (Appendix F-2)

F.5.b General Precautions for Handling Ignitable or Reactive Wastes and Mixing of Incompatible Wastes [40 CFR 264.17(b) and (c) and 270.14(b)(9); NM HWMR4 206.B.7.b. and c. and 302.A.4.b.(1)(i)]

General precautions for handling ignitable or reactive wastes were discussed previously in Section F.5.a.

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SECTION G
CONTINGENCY PLAN

The information contained herein is submitted in accordance with the requirements for an Contingency Plan, as contained in 40 CFR 270.14(b)(7), 264 Subpart D and 264.50 - 264.56, and NM HWMR 302.A.4.b.(1)(g), 206.B.10., and 206.B.10.b. - m.

G.1 General Information [40 CFR 264.52; NM HWMR 206.B.10.]

This Contingency Plan is for the thermal treatment area located on Melrose Bombing Range. The Melrose Range is owned and operated by Cannon AFB. Information in this contingency plan is adapted, in large part, from the Cannon AFB Spill Prevention and Response Plan (SPR).

The Thermal Treatment/Open-Burn Area on Melrose Range is used to expend the explosive portion of outdated and unexploded ordnance. A site plan and description of the burning pit are contained in Section B. A description of the wastes disposed of is provided in Section C, and the burning process is described in Section D.

G.2 Emergency Coordinators [40 CFR 264.52 (d) and 264.55; NM HWMR 206.B.10.g and 206.B.10.1.]

The On-Scene Coordinator (OSC) is the individual assigned the responsibility for directing and coordinating all spill response actions. The OSC will have the authority to utilize the expertise and resources of the Spill Response Team (SRT) in determining and performing response actions. Deployment of the SRT will be activated only if called by the OSC or his/her designate. A list of the emergency coordinators is provided in Table G-1.

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The deployment of the SRT is effective to provide a coordinated response to contain, control, recover, and restore the environment for all spills.

Members of the SRT are shown in Table G-2. If necessary, the OSC will also contact the outside organizations and agencies that are listed in Table G-3.

G.3 Specific Contingency Plan [40 CFR 270.19(b)(7), NM HWMR4

302.A.4.b.(1)(g)]

The Fire Department is always at the site when munitions are being burned on Melrose Range.

If a highly flammable material is released, the following action will be taken:

1. All persons within a 1/4-mile radius will be notified.
2. All ignition sources will be eliminated.
3. Motor vehicles will be restricted or eliminated to avoid ignition of the vapor.
4. All persons within a 2000-foot radius of the source will be evacuated if the likelihood of an impending explosion is determined.

The Fire Chief will determine when the fire has been controlled and consult with the SRT and OSC to determine when activities in the area can resume.

G.3.a Release of Hazardous Waste to Air, Land, or Water

In the event of a spill of oil or hazardous substances, the OSC will be responsible for directing and coordinating all spill response actions. The OSC or his/her designee will maintain an Incident Log detailing all actions taken during the course of the pollution spill.

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G.4 Prevention of Recurrence or Spread of Fires, Explosions, or Releases

[40 CFR 264.56(e); NM HWMR 206.B.10.m.(5)]

The Environmental Coordinator will prepare a Pollution Incident Report which will assess the cause of the fire, explosion, or spill. This report will also indicate remedial actions which will be taken to prevent any recurrence of the hazardous situation.

G.4.a Post-Emergency Equipment Maintenance [40 CFR 264.56(h)(2) and (i);

NM HWMR 206.B.10.m.(8)(b) and 206.B.10.m.(9)]

After an emergency event, all emergency equipment that was utilized for clean-up purposes will be cleaned or replaced so that it will be fit for its intended use. Equipment will be triple-rinsed using water or an appropriate solvent. All rinses will be containerized. The third rinse will be analyzed for appropriate parameters, based on materials involved. An inspection of all safety equipment will be conducted as discussed in Section F-2 before operations are resumed [40 CFR 264.56(i)]. The Regional U.S. EPA Administrator, state and local authorities will be notified that post-emergency equipment maintenance has been performed and operations will resume.

G.5 Emergency Equipment [40 CFR Section 264.52(e); NM HWMR4 206.B.10.h]

As described previously, the Fire Department will be on hand when munitions are burned at Melrose Range. A well provides water for fire-fighting purposes. Personnel protective equipment as well as the other emergency equipment listed above are available to the thermal treatment area personnel.

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G.6 Coordination Agreements [40 CFR 264.52(c), 264.53(b), and 264.37(b);
NM HWMR4 206.B.10.f., 206.B.10.j.(2), and 206.B.9.h.(5)]

The Curry and Roosevelt County Hospitals and the City of Clovis Fire Department will provide services to the AFB in an emergency situation. These coordination agreements are shown in Appendix G-1. Copies of any correspondence with these organizations will be added to this appendix. A copy of this contingency plan will be provided to these organizations.

The agreement between fire departments states that the requesting party (in this case, the Cannon AFB Fire Department) will be in charge of all operations. The Disaster Preparedness Plan (OPLAN 355-1) assigns the responsibility of Medical Disaster Operations to USAF Hospital, Cannon AFB.

Documentation will also be kept of the refusal of an organization to enter into such an agreement.

G.7 Evacuation Plan [40 CFR 264.52 (f); NM HWMR4 206.B.10.i.]

All emergencies require prompt and deliberate action. In the event of any major emergency, it will be necessary to follow an established set of procedures. Such established procedures will be followed as closely as possible; however, in specific emergency situations, the On-Scene Coordinator (OSC) may deviate from the procedures to provide a more effective plan for bringing the situation under control. The OSC is responsible for determining which emergency situations require plant evacuation.

In the event an evacuation from the thermal treatment area is necessary, the following actions will be taken:

1. The signal for evacuation will be activated.

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2. No further entry of visitors, contractors, or trucks will be permitted. All vehicle traffic will cease to allow the safe exit of personnel and movement of emergency equipment.
3. All personnel, visitors, and contractors will immediately leave through the exit gate.
4. No persons shall remain or re-enter the location unless specifically authorized by the person or persons calling for the evacuation. In allowing this, the person in charge assumes responsibility for those persons within the perimeter. Those within the fenced area will normally only include fire brigade personnel or emergency teams.
5. All persons will be accounted for by their immediate supervisors, who will ensure that personnel stay together and proceed to a safe location.
6. Re-entry into the facility will be made only after clearance is given by the OSC.

The On-Scene Coordinator will determine the need for evacuation of additional personnel in the vicinity of the facility.

G.8 Required Reports [40 CFR 264.56(j); NM HWMR 206.B.10.m.(10)]

Any emergency event (e.g., fire, explosion, etc.) that requires implementation of the Contingency Plan will be reported in writing within 15 days to the New Mexico Environmental Improvement Division and/or the Region VI Administration of EPA. This report must include the information items listed in Figure G-1.

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Figure G-1

POLLUTION INCIDENT REPORT

- o Name and address of installation and/or owner
- o Name and telephone number of OSC
- o Incident report (initial, second, third, final)
- o Date and Item of incident
- o Time of official spill notification to the National Response Center and other regional and state officials
- o Location of incident and the nature of the terrain at the location, to include surface and subsurface drainage characteristics and relationships to water bodies (estimate extent of area affected such as miles of stream or acres of lake)
- o Weather conditions and how they affected response action
- o Cause of incident
- o Type and estimated amount (barrels, gallons, pounds) of pollutant and the official size classification (minor, medium, major)
- o Actual damage and/or potential threat to human life, to property (private, state, or Federal), and to plant or animal life
- o Corrective action taken to eliminate pollution source
- o Corrective action taken to remove pollutant
- o Assistance required

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Figure G-1 (Continued)

POLLUTION INCIDENT REPORT

- o Estimated completion date of remedial actions and anticipated effectiveness
- o Estimated quantity and disposition of spill material and contaminated soil
- o Confirmation that emergency response equipment is back in operation before resuming operating activities
- o Description of any problems encountered during implementation of the SPR plan and an explanation of how the Spill Prevention and Response Plan was, or will be, modified to prevent the recurrence of the spill event
- o Anticipated or actual reaction by the news media and public to the incident (specify potential for liability in the internal Air Force reports only)

Send completed report to:

New Mexico Environmental Improvement Division
Hazardous Waste Management Section
Groundwater and Hazardous Waste Bureau
Crown Bldg., 725 St. Michael's Dr.
P.O. Box 968
Sante Fe, NM 87504-0968

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TABLE G-1

Emergency Coordinators

<u>Name and Title</u>	<u>Work Address</u>	<u>Home Address</u>
On-Scene Coordinator: Commander, 27 CSG Col David E. Benson	27 CSG/CC Cannon AFB, NM 88103 (505)784-2761	No. 3 Crossbow Cannon AFB, NM 88101 (505) 784-3102
First Alternate: Base Civil Engineer Lt Col Garry W. Earls	27 CSG/DE Cannon AFB, NM 88103 (505) 784-2008	7726 Oklahoma Ct Cannon AFB, NM 88101 (505) 784-3694
Second Alternate: Base Fire Chief William W. Thomas	27 CSG/DEF Cannon AFB, NM 88103 (505) 784-4076	2101 Glenarm Clovis, NM 88101 (505) 762-4855
Environmental Coordinator Jimmie N. Richards	27 CSG/ DEV Cannon AFB, NM 88103 (505) 784-4639	Rte 3 Box 538 Portales, NM 88130 (505) 356-4830

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TABLE G-2

Spill Response Team

<u>SRT Organizations and Personnel</u>	<u>On-Duty Extension</u>
1. Commander 27th Combat Support Group (Primary OSC)	2761
2. Base Civil Engineer (1st Alternate OSC)	2008
CE Service Desk	2001
3. Base Fire Department	On-Base 4117 Off-Base 784-4117
Base Fire Chief (2nd Alternate OSC)	4076
4. Environmental Coordinator	4639
5. Bioenvironmental Engineer	4063
6. Disaster Preparedness Office	4177
7. Security Police	2351
8. Liquid Fuels Maintenance Technician	2112
9. Staff Judge Advocate and Legal Office	2211
10. Public Affairs Office	4131
11. Safety Office	2811
12. Base Hospital (Emergency)	4038
13. Transportation Squadron	2641
14. Weather Squadron	2748
15. Photographic Laboratory	2765

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TABLE G-3

Local, State, and Federal
Emergency Contacts

Clovis Police Department	769-1921
Clovis Fire Department	769-2185
National Response Center	(800) 424-8802
EPA Region VI	(214) 767-3274
New Mexico Health and Environment Department: 24-hour emergency number	(505) 827-9329
Hazardous Waste Section New Mexico Environmental Improvement Division	(505) 827-2929
CHEMTREC	(800) 424-9300
ETIS	Autovon - 970-6167 Comm. No. (904) 283-6167
Assoc. of American Railroads (Emergency Response Division)	(202) 293-4048
DOW Chemical Company (Emergency Division)	(517) 636-4400
Dupont (Emergency Response)	(302) 774-1000
Monsanto (Safety Office)	(618) 271-5835
National Foam Center (Emergency)	(215) 363-1400
Poison Control Center	(800) 432-6866
EPA Emergency Response Team	(201) 321-6660
HQ TAC Langley AFB VA/DEEV Environmental Coordinator	Duty Hours Autovon - 432-4430 Non-Duty Hours Autovon - 432-2224/2225

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SECTION H
PERSONNEL TRAINING

The information contained in this section outlines training programs for personnel, in accordance with 40 CFR Section 264.16 and 270.14(b)(12), and NM HWMR 206.B.6 and 302.A.4.b.(1)(1).

H.1 Outline of Training Program [40 CFR 270.14(b)(12); NM HWMR4
302.A.4.b.(1)(1)]

All personnel at Cannon AFB involved in hazardous waste management attend the Hazardous Waste Management Training Program developed by the Research Triangle Institute for the Department of the Air Force.

Personnel involved in ordnance disposal also receive extensive on-the-job training and periodic task evaluations. Appendix H-1 outlines the training schedule.

H.1.a Job Titles and Duties [40 CFR 264.16(d)(1) and (2); NM HWMR4
206.B.6.d.(1) and (2)]

Melrose Thermal Treatment Area

At the present time, sixteen military personnel are involved in conducting range clearance and thermal treatment operations. These personnel will have the duties and level of responsibility as follows:

- o Position title: Explosive Ordnance Disposal Superintendent

Duties and Responsibilities:

Plans and organizes explosive ordnance disposal activities. Plans workload and schedules work assignments. Establishes performance standards and work procedures to ensure effective personnel utilization and to increase

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efficiency and economy of operation. Provides for and controls the proper use of supplies, tools, equipment, and space in explosive ordnance disposal activities. Develops unit organizational structure and charts to define lines of authority and assigns specific responsibilities. Coordinates explosive ordnance and movements with related organizations.

Directs explosive ordnance disposal activities. Checks methods and techniques employed in detection, identification, rendering safe, recovering, and destruction of explosive ordnance. Evaluates work performance in terms of compliance with policies, directives, and technical publications. Ensures compliance with appropriate safety regulations and practices in performing explosive ordnance disposal activities. Controls workflow and assigns special projects to persons or groups. Analyzes productivity and work quality. Drafts and prepares correspondence and reports relating to explosive ordnance disposal administrative and operational functions. Supervises the preparation, maintenance, and disposition of records concerning explosive ordnance disposal activities.

Establishes and conducts on-the-job training for explosive ordnance disposal personnel. Directs on-the-job training of explosive ordnance disposal personnel and reviews progress charts to ensure completion of required training. Plans and conducts conferences and classes of instruction to inform personnel of new projects and work requirements. Instructs personnel in procurement of tools and material and use of technical orders pertaining to explosive ordnance disposal functions. Indoctrinates newly assigned personnel in local procedures, methods, safety requirements,

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responsibility, and level of supervision. Directs and performs proficiency and certification training and indoctrination programs for explosive ordnance disposal personnel.

Inspects and evaluates explosive ordnance disposal activities. Makes periodic and special inspections of explosive ordnance disposal activities to ensure compliance with policies, regulations, and technical publications. Interprets inspection findings and recommends corrective action.

Performs technical explosive ordnance disposal functions. Resolves technical problems encountered by subordinates and interprets technical publications applicable to detection, identification, renderings safe, recovery, movement, or destruction of United States and known foreign explosive, incendiary and nuclear ordnance. Plans, organizes, directs, and assists in the safing, removal, and disposal of explosives and explosive ordnance rendered hazardous as a result of crashed or disabled aircraft and missiles to include ejection and catapult devices, squibs, explosive bolts, warheads, bombs, rockets, guided missiles, guns, and ammunition. Provides technical guidance and assistance to disaster preparedness officers in evaluation of personnel and detection, monitoring, evaluation, and decontamination of radioactive, chemical, or biological hazards. Supervises, demonstrates, and assists in the use of special tools, equipment, and techniques pertaining to explosive ordnance disposal. Directs explosive ordnance indoctrination programs for disaster preparedness personnel and other interested agencies.

Experience and Qualifications:

Knowledge of the composition and characteristics of United States and

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known foreign explosive, incendiary, and nuclear ordnance and basic electricity is mandatory. Qualification as an Explosive Ordnance Disposal Technician is mandatory. In addition, experience in directing functions such as detecting, identifying, rendering safe, recovering, or destroying explosive, incendiary, or nuclear ordnance is mandatory.

o Position Title: Explosive Ordnance Disposal Technician

Duties and Responsibilities:

Advises on technical problems of explosive ordnance disposal. Resolves unusual explosive ordnance disposal problems and provides other activities with advice and guidance on explosive ordnance disposal matters. Organizes and conducts explosive ordnance disposal activities. Determines procedures to be utilized in detecting, identifying, rendering safe, recovering, or destroying explosive, incendiary, and nuclear ordnance.

Performs technical explosive ordnance disposal functions. Conducts area reconnaissance for detection and identification of unexploded ordnance. Determines area from which personnel and materials must be evacuated, and ensures it is cleared before proceeding with disposal. Estimates depth of buried unexploded ordnance and removes surrounding earth and debris. Plans and conducts construction, sinking, and timbering of shafts for access to buried explosive ordnance and for protection of personnel during recovery operations. Renders unexploded ordnance safe, utilizing appropriate techniques including usage of remote controlled devices and shaped charges. Plans and conducts the neutralizing and disposition of improvised explosive devices. Calculates, fabricates, and uses explosive charges. Disposes of unserviceable explosive ordnance by burning or detonation. Plans and directs

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removal of safetied explosive ordnance and ensures areas adjacent to unexploded ordnance suspected of containing toxic or radioactive contamination are properly monitored. Coordinates explosive ordnance disposal activities and movements with other interested military and civilian agencies. Prepares reports concerning explosive ordnance disposal activities.

Performs as a specialized member of disaster preparedness teams. Provides technical guidance and assistance to disaster preparedness officers in detection, monitoring, evaluation, and decontamination of radioactive, chemical, or biological hazards. Plans, organizes, directs, and assists in the safing, removal, and disposal of explosives and explosive ordnance rendered hazardous as a result of crashed or of disabled aircraft and missiles, to include ejection and catapult devices, squibs, explosive bolts, warheads, bombs, rockets, guided missiles, guns, and gun ammunition. Plans, establishes, and conducts explosive ordnance indoctrination programs for disaster preparedness personnel and other interested agencies.

Supervises related munitions and weapons functions. Ensures functions relating to explosive ordnance disposal in munitions, weapons, and nuclear weapons activities are coordinated and performed as directed. Ensures the availability of explosive ordnance disposal publications and administrative publications libraries pertaining to explosive ordnance functions. Establishes procedures and standards for the availability of supplies, tools, and equipment pertaining to explosive ordnance disposal. Monitors and determines the proper procedures for turn-in or disposal of unserviceable supplies, tools, and equipment.

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Supervises explosive ordnance disposal personnel. Establishes work methods and performance standards. Ensures compliance with safety regulations governing handling, transportation, and destruction of unexploded ordnance. Observes work of subordinates and makes on-the-spot corrections of deficiencies. Conducts periodic inspections to determine compliance with policies and directives. Reviews inspection reports and initiates action to correct deficiencies. Maintains followup to ensure accomplishment of corrective action. Evaluates performance of specialists in terms of compliance with policies, directives, and technical orders.

Establishes, supervises, and conducts on-the-job training of explosive ordnance disposal personnel. Plans, directs, and performs proficiency and certification training for explosive ordnance personnel. Plans, conducts, and demonstrates the use of special tools, equipment, and techniques pertaining to explosive ordnance disposal.

Experience and Qualifications:

Knowledge of the composition and characteristics of United States and known foreign explosive, incendiary, and nuclear ordnance and of basic electricity is mandatory. Possession of mandatory knowledge will be determined according to AFR 35-1.

Experience in performance or supervision of functions such as rendering safe, removing, and destroying dangerous or unserviceable foreign explosive ordnance and in decontamination activities is desirable.

Completion of prescribed 7-level management course is mandatory.

o Position Title: Explosive Ordnance Disposal Specialist

Duties and Responsibilities:

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Performs explosive ordnance disposal functions. Conducts area reconnaissance for detection and identification of unexploded ordnance. Determines distance to which personnel and material must be evacuated. Photographs all unknown items for technical intelligence and reporting requirements. Removes earth and debris surrounding unexploded ordnance, using mechanical tools, handtools, and appropriate equipment. Estimates depth of buried explosive ordnance by using probing technical or detection equipment. Performs construction, sinking, and timbering of shafts for access to buried explosive ordnance and to protect personnel during recovery operations. Performs necessary rendering safe procedures, using special techniques, including usage of remote controlled devices and shaped charges. Removes safetied explosive ordnance by using winches, pulley, cables, or cranes. Operates and interprets RADIAC and other applicable detecting instruments in monitoring areas adjacent to unexploded ordnance suspected of containing toxic or radioactive contamination. Neutralizes and disposes of chemical and biological munitions. Disposes of explosive ordnance rendered exceptionally hazardous by damage or deterioration. Disposes of unserviceable explosive ordnance by burning or detonation. Notifies authorities when areas are free of danger. Secures explosive ordnance and equipment to vehicles and plans evacuation routes. Prepares reports concerning explosive ordnance disposal activities. Fabricates and uses explosive charges. Neutralizes and disposes of improvised explosive devices.

Performs as a specialized member of disaster preparedness teams. Provides assistance to disaster preparedness officers in detection, monitoring, evaluation, and decontamination of radioactive, chemical, or

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biological hazards. Safes, removes, and disposes of explosive ordnance rendered hazardous as the result of crashed or disabled aircraft and missiles, to include ejection and catapult devices, squibs, explosive bolts, warheads, bombs, rockets, guided missiles, guns, and gun ammunition. Conducts explosive ordnance indoctrination programs for disaster preparedness teams and other interested agencies.

Performs related munitions and weapons functions. Performs functions relating to explosive ordnance disposal in munitions, weapons, or nuclear weapons activities as directed. Maintains explosive ordnance publications and administrative publications libraries pertaining to supplies, tools, and equipment relative to explosive ordnance disposal.

Supervises explosive ordnance disposal personnel. Assigns work and monitors progress of explosive ordnance disposal activities to ensure compliance with local directives and applicable technical publications. Conducts on-the-job training. Instructs subordinates in techniques and procedures for rendering safe or destroying unexploded ordnance. Conducts and performs proficiency and certification training for explosive ordnance disposal personnel. Demonstrates the use of special tools, equipment, and techniques pertaining to explosive ordnance disposal.

Experience and Qualifications:

Knowledge of the composition and characteristics of United States and known foreign explosive, incendiary, and nuclear munitions, and basic electricity is mandatory. Possession of mandatory knowledge will be determined according to AFR 35-1.

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Completion of high school or GED equivalency is mandatory.
Completion of high school courses in mechanics, physics, or basic electricity is desirable.

Experience in performing functions such as rendering safe, removing, or destroying hazardous or unserviceable United States explosive ordnance is mandatory.

Experience in performing functions such as rendering safe, removing and destroying hazardous or unserviceable foreign munitions; and in decontamination activities is desirable.

Completion of Phases I and II, US Naval School, Explosive Ordnance Disposal, Indian Head, Maryland, is mandatory before award of the semiskilled AFSC.

This training program is divided into eighteen elements. The elements in which personnel receive training depend upon the type of hazardous waste management activities they perform. Job descriptions will be modified to include the duties and responsibilities of the employee with respect to hazardous waste management.

In addition, personnel involved in explosive ordnance disposal at Melrose Range receive extensive on-the-job training in each task performed. These employees are also subject to a task evaluation at any unspecified time. This task evaluation can provide two results:

- (1) Certification and retention of task
- (2) Decertification with remedial training and reevaluation for recertification.

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All operations will be conducted under the supervision of a SSgt 46470 or higher.

H.1.b Training Director [40 CFR Section 264.16(a)(2); NM HWMR 206.B.6.a.(1)]

The Commander, 27th Combat Support Group, is responsible for ensuring that personnel on Cannon AFB receive training. This responsibility is delegated to 27 CSG/DEV.

H.1.c Relevance of Training to Job Position [40 CFR 264.16(a)(2); NM HWMR 206.B.6.a.(2)]

The training outlined in the preceding sections is relevant to the job descriptions in that the training teaches those personnel to recognize hazardous waste, handle it safely in accordance with federal and state regulations, be able to respond and take appropriate action in the case of an emergency, etc.

Since this is a specified duty under the job description, the training is sufficient to satisfy the requirements of NM HWMR 206.B.6.a.

H.1.d Training for Emergency Response [40 CFR 264.16(a)(3); NM HWMR 206.B.6.a.(3)]

The Air Force Training Program provides instruction in emergency response, spill clean-up, and the line of personnel to be contacted.

H.1.d.(1) Procedures for Using, Inspecting, Repairing, and Replacing Facility Emergency and Monitoring Equipment [40 CFR 264.16(a)(3)(i); NM HWMR 206.B.6.a.(3)(a)]

Refer to Section G-5.

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- H.1.d.(2) Key Parameters for Automatic Waste Feed Cut-Off Systems [40 CFR 264.16(a)(3)(ii); NM HWMR 206.B.6.a.(3)(b)]

No automatic waste feed cut-off system will exist on Cannon AFB.

All hazardous wastes will be containerized in accordance with DOT specifications.

- H.1.d.(3) Communications or Alarm System [40 CFR 264.16(a)(3)(iii); NM HWMR 206.B.6.a.(3)(c)]

Refer to Section G-5

- H.1.d.(4) Response to Fires or Explosions [40 CFR 264.16(a)(3)(iv); NM HWMR 206.B.6.a.(3)(d)]

In addition to hazardous waste management personnel, the Fire Department on Cannon AFB is continuously prepared to respond to all fires involving hazardous wastes. Specific procedures that will be followed in the event of a fire or explosion are outlined in the Contingency Plan, Section G.

- H.1.d.(5) Response to Groundwater Contamination Incidents [40 CFR 264.16(a)(3)(v); NM HWMR 206.B.6.a.(3)(e)]

The potential for groundwater contamination on the Melrose Range will be unlikely considering the fact that the only liquid present will be the fuel used for ignition. This will be completely burned. Analysis of soil samples from the thermal treatment area are included in Section C.

- H.1.d.(6) Shutdown of Operations [40 CFR 264.16(a)(3)(vi); NM HWMR 206.B.6.a.(3)(f)]

When operations must shut down, no special actions are required; therefore, no specific training is required.

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SECTION I
CLOSURE PLAN, POST CLOSURE PLAN
AND FINANCIAL REQUIREMENTS

This section is submitted in accordance with the requirements of 40 CFR 270.14(b)(13), 270.14(b)(15-18), 264.110-264.115, 264.351, 264.178 and 264.197, and NM HWMR 302.A.4.b.(1)(m), (n), (o), (p), (q), 206.D.2.a.-f., 206.D.8.h., 206.D.4.i. and 206.D.5.e.

I.1 Closure Plans [40 CFR 270.14(b)(13); NM HWMR4 302.A.4.(b)(1)(m)]

This plan identifies all steps that will be necessary to partially close the thermal treatment area at any point during the intended operating life and to completely close the facility at the end of its intended operating life.

I.1.a Closure Performance Standard [40 CFR 264.111 and 264.112; NM HWMR4 206.D.2.a. and b.]

This closure plan is designed to: ensure that the facility will not require further maintenance and controls; minimize and eliminate threats to human health and environment; and prevent escape of hazardous wastes, hazardous waste constituents, or waste decomposition products to the ground or surface waters or to the atmosphere. If there is evidence of any spills or leaks, samples will be taken and analyzed to determine the extent of contamination in the soil and, if necessary, in groundwater. Any contaminated soil will be excavated, removed, and disposed of at a proper disposal facility. Any contaminated ground water attributable to the handling practices of hazardous wastes at these facilities will be treated so that any contamination

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resulting from the above handling practices is below local, state, and/or federal limits.

I.1.b Partial and Final Closure Activities [40 CFR 264.112(a)(1)-
264.112(a)(4); NM HWMR4 206.D.2.c.(1)(a)]

Partial closure of the thermal treatment operation is not planned. However, in the event that future circumstances or decisions force this facility to discontinue activity, the procedures for final closure will be followed.

Upon formal notification to proceed with the closure of the thermal treatment area on Melrose Range all existing explosive material will be detonated. The maximum inventory of explosive material that could ever be on site is 100 pounds. All expended munitions on the Range will be collected and disposed.

Following the final disposition process, soil samples will be taken to determine whether contamination of the area exists. If necessary, soil will be removed and the area re-tested until no appreciable level of contamination remains. Any soil removed will be containerized and transported to either the DRMO storage facility or to a state/EPA approved disposal site.

Verification of all analyses will be supplied by an independent laboratory.

I.1.c Schedule of Closure [40CFR 265.112(b)(6),(7)]

The Melrose Range Thermal Treatment Facility is expected to close in 2034. The schedule for closure is:

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<u>Action</u>	<u>Time Required (Days)</u>
Detonate and/or remove waste explosives.	X
Collect soil samples.	X + 5
Submit soil samples.	X + 6
Analyze results.	X + 66
Excavation and disposal of soil as necessary.	X + 150
Submit closure certificate to NMEID.	X + 179

I-2. Post Closure Plans [40 CFR 270.14(b)(13), 264.117 and 264.118; NM HWMR4 302.A.4.b.(1)(m), 206.D.2.q., 1206.D.2.h.]

Post closure plans will not be needed because all wastes will be removed and the facilities will be decontaminated at closure.

I-3. Notices Required for Disposal Facilities

I-3a. Notice to Local Land Authority [40 CFR 264.119; NM HWMR4 206.D.2.i.]

Refer to Section I-3b.

I-3b. Notice in Deed to Property [40 CFR 270.14(b)(14); NM HWMR4 302.A.4.b.(1)(n)]

The thermal treatment area on Melrose Range will be analyzed and decontaminated as described in Section I-1.b. Therefore, a notation is not necessary in the deed to inform potential purchasers of restrictions associated with a disposal site, as required by 40 CFR Sections 264.120 and 270.14(b)(14); NM HWMR 206.D.2.j. and 302.A.4.b.(1)(n).

I-4. Closure Cost Estimate [40 CFR 270.14(b)(15) and 264.142(a) and (b); NM HWMR4 302.A.4.b.(1)(o) and 206.D.3.c.(1) and (2)]

Melrose Range is exempt from the closure cost estimate requirement because it is owned and operated by the Federal government.

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Section J

OTHER FEDERAL LAWS

[40 CFR 270.14(b)(20) and 270.3]

Information will be provided in accordance with the requirements of 40 CFR Part 270.14(b)(20) at the request of the U.S. EPA Regional Administrator or the New Mexico Environmental Improvement Division. At this time, however, we believe that Cannon AFB is in compliance with the following Federal laws: The Wild and Scenic Rivers Act, 16 U.S.C. 1273 et seq; The National Historic Preservation Act of 1966, 16 U.S.C. 470 et seq.; The Endangered Species Act, 16 U.S.C. 1531 et seq.; and the Fish and Wildlife Coordination Act, 16 U.S.C. 661 et seq.

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SECTION K
CERTIFICATION

[40 CFR 270.11; NM HWMR4 302.B.]

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

9 FEB 1990

9 Feb 1990

Signature:



DAVID E. BENSON
Colonel, U. S. Air Force
Commander, Cannon AFB