SAND2011-6905P

Sandia National Laboratories

Operated for the U.S. Department of Energy's
National Nuclear Security Administration
by **Sandia Corporation**

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Michael W. Hazen
Vice President
Infrastructure Operations
Chief Security Officer

Ms. Patty Wagner
Manager
U. S. Department of Energy
National Nuclear Security Administration
Sandia Site Office, MS-0184
P. O. Box 5400
Albuquerque, NM 87185-0184

Dear Ms. Wagner:

Subject: ***Certification and Notification of Class 1 Modification to Hazardous Waste Operating Permits for Sandia National Laboratories/New Mexico (SNL/NM), EPA ID NM5890110518***

Sandia Corporation (Sandia) is requesting that the Department of Energy/National Nuclear Security Administration (DOE/NNSA) submit the enclosed materials to the New Mexico Environment Department (NMED) on or before October 3, 2011. The enclosures include modifications to the operating permit for the Hazardous Waste Management Facility (HWMF), and modifications to the post-closure care permit for the Chemical Waste Landfill (CWL); both are located at Sandia National Laboratories/New Mexico (SNL/NM).

The permit changes are presented in enclosures to this letter in accordance with the requirements of New Mexico Administrative Code, Title 20, Chapter 4, Part 1, Subpart IX (20.4.1.900 NMAC) incorporating Title 40 of the Code of Federal Regulations, Part 270.42(a) (40 CFR 270.42(a)).

In addition to the permit modifications, Sandia requests that DOE/NNSA submit updated material for permit applications that have been previously submitted to NMED. These include applications for new or renewed operating permits for several hazardous waste and mixed waste management units:

- HWMF
- Radioactive and Mixed Waste Management Facility (RMWMF).
- Manzano Storage Bunkers (MSB), a group of five waste management units.

The changes are summarized in the following table.

Unit	Unit Changes	Documents Affected
HWMF	• Updating the roster of personnel who can serve as emergency coordinators.	• Operating permit
CWL	• Updating the roster of personnel who can serve as emergency coordinators • Updating the list of agreements and memoranda of understanding for emergency response • Updating the list of emergency equipment • Noting an additional evacuation route and an assembly point, with revisions to an existing figure and an additional figure	• Post-Closure Care Permit
All except CWL	• Updating the list of agreements and memoranda of understanding for emergency response • Clarifying response capabilities and personnel actions	• Permit application
HWMF	• Changing the HWMF unit name to Hazardous Waste Handling Facility (HWHF) in response to an NMED request that the unit name be different from the descriptive term for waste management units included in the permit application. • Updating the roster of personnel who can serve as emergency coordinators	• Permit application
RMWMF	• Updating the list of emergency equipment • Updating the roster of personnel who can serve as emergency coordinators	• Permit application
MSB	• Updating the list of emergency equipment • Updating the roster of personnel who can serve as emergency coordinators	• Permit application

There are six enclosures containing the contingency plan modifications: one for each of the permit modifications, (HWMF and CWL); and one for each of the four sections of the permit application. All six enclosures are listed in Table 1.

Within each of these six enclosures, three elements are included:

- A table summarizing the modifications.
- Revised pages from the permit or application in redline/strikeout format.
- Revised pages from the permit or application as clean final pages.

I have signed the certification to be sent to the NMED as the Operator at SNL/NM. If you agree, please sign it as the Owner.

Should you have any questions regarding this submittal, please contact Pam Puissant at (505) 844-3185/ pmpuiss@sandia.gov.

Sincerely,

Michael W. Hazen
Vice President

Enclosures:
1. Certification Statement: Notification of Class 1 Permit Modifications and Updated Information for Permit Applications
2. Table 1: List of Enclosures
3. Enclosure A: Sandia National Laboratories, Permit NM5890110518-1, Hazardous Waste Management Facility, Permit Attachment E
4. Enclosure B: Sandia National Laboratories, Permit NM5890110518, Chemical Waste Landfill Post-Closure Care, Permit Attachment 6
5. Enclosure C: Sandia National Laboratories, EPA ID NM5890110518, Comprehensive Part B Permit Request, Appendix E: Site-Wide Contingency Plan
6. Enclosure D: Sandia National Laboratories, EPA ID NM5890110518, Comprehensive Part B Permit Request, Module I: Hazardous Waste Handling Facility
7. Enclosure E: Sandia National Laboratories, EPA ID NM5890110518, Comprehensive Part B Permit Request, Module III: Radioactive and Mixed Waste Management Facility
8. Enclosure F: Sandia National Laboratories, EPA ID NM5890110518, Comprehensive Part B Permit Request, Module VI: Manzano Storage Bunkers

Copy to (w/enclosure):
MS-0184 David Rast, NNSA/SSO

Blind copy to (w/enclosure):
MS-0651 Customer Funded Records Center, 09532

Blind copy to (w/o enclosure):
MS-0141 Amy Blumberg, 11100
MS-0725 Sidney Gutierrez, 04100
MS-0725 Fran Nimick, 04140
MS-0729 Anita Reiser, 04144
MS-0143 Michael Hazen, 04000

BL/sk

National Nuclear Security Administration
Sandia Site Office
P.O. Box 5400
Albuquerque, New Mexico 87185-5400

John E. Kieling, Acting Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Dr. East, Bldg 1
Santa Fe, NM 87505

SUBJECT: Notification of Class 1 Modification to Hazardous Waste Operating Permits for Sandia National Laboratories/New Mexico (SNL/NM), EPA ID NM5890110518

Dear Mr. Kieling:

On behalf of the Department of Energy (DOE) and Sandia Corporation (Sandia), DOE is notifying the New Mexico Environment Department (NMED) of Class 1 modifications to the operating permits for two hazardous waste management units at SNL/NM: the Hazardous Waste Management Facility (HWMF) and the Chemical Waste Landfill (CWL).

The changes are discussed below and are presented in enclosures to this letter, as required by the New Mexico Administrative Code, Title 20, Chapter 4, Part 1, Subpart IX (20.4.1.900 NMAC) incorporating Title 40 of the Code of Federal Regulations, Part 270.42(a) (40 CFR 270.42(a)).

At the HWMF, DOE and Sandia are updating the roster of personnel who can serve as emergency coordinators. This change affects Permit Attachment E *Contingency Plan.*

At the CWL, DOE and Sandia are making the following modifications which affect Permit Attachment 6 *Contingency Plan*:

- updating the list of agreements and memoranda of understanding for emergency response,
- updating the list of emergency equipment to reflect current locations and capabilities,
- updating the roster of personnel who can serve as emergency coordinators,
- noting an additional evacuation route and an assembly point; with revisions to an existing figure and an additional figure, and
- updating the list of figures in the permit.

DOE and Sandia have previously submitted a Comprehensive Part B Permit Request (Application) to NMED for new or renewed operating permits for several hazardous and mixed waste management units, including:

- the HWMF,
- the Radioactive and Mixed Waste Management Facility (RMWMF), and
- the Manzano Storage Bunkers (MSB), a group of five waste management units.

The Application includes a sitewide contingency plan (Appendix E) and unit-specific addenda for each of the waste management units. In the sitewide contingency plan, DOE and Sandia are updating the list of agreements and memoranda of understanding for emergency response and making minor revisions for clarity.

In each of the unit-specific contingency plan addenda, DOE and Sandia are making the following revisions:

- updating the list of emergency equipment, and
- updating the roster of personnel who can serve as emergency coordinators.

DOE and Sandia have prepared updated Application information for these seven units and are submitting the changes concurrently with the permit modifications. The updated Application information includes a name change for the HWMF: DOE and Sandia have revised the Unit name to Hazardous Waste Handling Facility (HWHF) in response to a NMED request that the Unit name be different from the descriptive term for units addressed in the Application. This name change does not affect the current HWMF permit.

There are six enclosures to this letter: one for each of the two units with existing permits (HWMF and CWL); one for the sitewide contingency plan in the Application, and one each for the unit-specific information for the HWMF, RMWMF, and MSB. All six enclosures are listed in Table 1.

Within Enclosures A and B, three elements are included:

- A table summarizing the permit modifications.
- Revised pages from the permit in redline/strikeout format.
- Revised pages from the permit as clean final pages.

Within the remaining enclosures, three analogous elements are included:

- A table summarizing the modifications.
- Revised page(s) from the Application in redline/strikeout format.
- Revised page(s) as clean final pages.

In accordance with 20.4.1.900 NMAC/40 CFR 270.42(a), the changes described in this notification and Enclosures A and B took effect September XX, 2011. These changes do not substantially alter the permit conditions, (see 20 NMAC 4.1.900/ 40 CFR 270.42(d)(2)(i)) and do not reduce the capacity of DOE and Sandia to protect human health and the environment.

DOE and Sandia will mail a notice about the permit modification to all persons on the facility mailing list within 90 days after the change takes effect. DOE and Sandia are available to provide additional information as needed.

Should you have any questions regarding this submittal, please contact me at (505) 845-6036 or David Rast of my staff at (505) 845-5349.

Sincerely,

Patty Wagner
Manager

Enclosures (6)

cc w/enclosures:
W. Moats, NMED, HWB
C. Amindyas, NMED HWB
T. Skibitski, NMED, DOE OB, HWB
A. Blumberg, SNL/NM, Org. 11100, MS-0141
SNL ES&H and Security Record Center, Org. 9532, MS-0651
SSO Legal File
SSO Waste Management File

cc w/o enclosures:
M. Hazen, SNL/NM, Org. 4000, MS-0143
S. Gutierrez, SNL/NM, Org 4100, MS-0725
F. Nimick, SNL/NM, Org. 4140, MS-0725
J. Freshour, SNL/NM, Org 4142, MS-0730
J. Jarry, SNL/NM, Org. 4139, MS-1151
P. Puissant, SNL/NM, Org. 4144, MS-0729
A. Reiser, SNL/NM, Org. 4144, MS-0729
M. Mitchell, SNL/NM, Org 6234, MS-0718
D. Castillo, SNL/NM, Org 4144, MS-1117
C. Wimberly, SSO
D. Rast, SSO

Notification of Class 1 Permit Modifications
and
Updated Information for Permit Applications

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

_____ _____

Michael W. Hazen, Vice-President
Sandia Corporation
Albuquerque, New Mexico
Operator

Date signed

_____ _____

Patty Wagner, Manager
U.S. Department of Energy
National Nuclear Security Administration
Sandia Site Office
Owner

Date signed

Table 1
List of Enclosures

Enclosure	Waste Management Unit	Permit or Application	Affected Section
A	HWMF	Permit NM5890110518-1	Permit Attachment E *Contingency Plan*, various sections
B	CWL	Post-Closure Care Permit	*List of Figures*, Permit Attachment 6 *Contingency Plan*
C	All units at SNL/NM except CWL: HWHF, TTF, RMWMF, AHCF, MSB, CAMU	Comprehensive Part B Permit Request (Application)	Application Appendix E *Site-Wide Contingency Plan for Sandia National Laboratories/New Mexico Resource Conservation and Recovery Act-Regulated Waste Management Units*
D	HWHF	Application	Application Module I *HWHF*, title page and Section 6.0
E	RMWMF	Application	Application Module III *RMWMF*, title page and Tables 3 and 4
F	MSB	Application	Application Module VI *MSB*, title page and Tables 2 and 3

Enclosure A

Sandia National Laboratories

Permit NM5890110518-1
Hazardous Waste Management Facility
Permit Attachment E

Summary of Changes
Revised Pages, Redline / Strikeout Format
Permit Attachment E with Revisions Incorporated

Enclosure B

Sandia National Laboratories

Permit NM5890110518
Chemical Waste Landfill Post-Closure Care
Permit Attachment 6

Summary of Changes
Revised Pages, Redline / Strikeout Format
Permit Attachment 6 with Revisions Incorporated

Enclosure C

Sandia National Laboratories
EPA ID NM5890110518

Comprehensive Part B Permit Request
Appendix E: Site Wide Contingency Plan

Summary of Changes
Revised Pages, Redline / Strikeout Format
Revised Pages, Final

Enclosure D

Sandia National Laboratories
EPA ID NM5890110518

Comprehensive Part B Permit Request
Module I: Hazardous Waste Handling Facility

Summary of Changes
Revised Pages, Redline / Strikeout Format
Revised Pages, Final

Enclosure E

Sandia National Laboratories
EPA ID NM5890110518

Comprehensive Part B Permit Request
Module III: Radioactive and Mixed Waste Management Facility

Summary of Changes
Revised Pages, Redline / Strikeout Format
Revised Pages, Final

Enclosure F

Sandia National Laboratories
EPA ID NM5890110518

Comprehensive Part B Permit Request
Module VI: Manzano Storage Bunkers

Summary of Changes
Revised Pages, Redline / Strikeout Format
Revised Pages, Final

ENCLOSURE A
SUMMARY OF CHANGES FOR HAZARDOUS WASTE MANAGEMENT FACILITY
PERMIT NM5890110518-1

Item No.	Location	Current Language	Revised Language	Explanation for Change	Modification Class Rationale
1	Attachment E, *Contingency Plan* Cover	November 2010 Recommended by: Jeff Jarry, Hazardous Waste Facility Site Manager Date Approved by: James J. Thompson, Department Manager, 4144 Date	September 2011 Recommended by: David Castillo, Hazardous Waste Facility Site Manager Date Approved by: Pamela M. Puissant, Acting Department Manager, 4144 Date	Revise date of plan. Update personnel names.	*Class 1 modification.* Administrative change. 20.4.1.900 NMAC, 40 CFR 270.42, Appendix I, Modification A.1.
2	Attachment E, *Contingency Plan* All pages	PLA94-23 Rev. 20 ICN00 Page 1 of 29 November 2010	PLA94-23 Rev. 21 ICN00 Page 1 of 29 September 2011	Update revision number. Revise date.	*Class 1 modification.* Administrative change. 20.4.1.900 NMAC, 40 CFR 270.42, Appendix I, Modification A.1
3	Attachment E, *Contingency Plan* Table of Contents	2.1 FEC ASSIGNMENTS November 2010 9	2.1 FEC ASSIGNMENTS September 2011 9	Revise date.	*Class 1 modification.* Administrative change. 20.4.1.900 NMAC, 40 CFR 270.42, Appendix I, Modification A.1

ENCLOSURE A
SUMMARY OF CHANGES FOR HAZARDOUS WASTE MANAGEMENT FACILITY
PERMIT NM5890110518-1

Item No.	Location	Current Language	Revised Language	Explanation for Change	Modification Class Rationale
4	Attachment E, *Contingency Plan* Section 2.1, Page 9	Primary: Jeff Jarry 284-3080 697-2108 951-6332 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117 Alternate: Ken Tetreault 844-1346 or 270-4089 822-6336 283-1949 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117 Alternate: Dave Castillo 284-4192 269-1705 951-6340 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117 Alternate: Chris Dean 284-8083 or 350-4982 268-8913 283-1942 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	Primary: David Castillo 284-4192 269-1705 951-6340 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117 Alternate: Ken Tetreault 844-1346 or 270-4089 822-6336 283-1949 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117 Alternate: Chris Dean 284-8083 or 350-4982 268-8913 283-1942 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117 Alternate: Mary Ann Krauss 845-9997 299-0793 951-6335 P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	Update emergency coordinator information to reflect current personnel responsibilities and contact information	*Class 1 modification.* Changes in name, address, or phone number of coordinators. 20.4.1.900 NMAC, 40 CFR 270.42, Appendix I, Modification B.6.d

CONTINGENCY PLAN
FOR THE
HAZARDOUS WASTE MANAGEMENT FACILITY

Sandia National Laboratories
Albuquerque, New Mexico

September 2011~~November 2010~~

Recommended by:

_____ _____

David Castillo~~Jeff Jarry~~, Hazardous Waste Facility Site Manager
~~_____~~Date

Approved by:

_____ _____

Pamela M. Puissant, ~~James J. Thompson,~~ Acting Department Manager, 4144
~~_____~~Date

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2.0 FACILITY EMERGENCY COORDINATORS

2.1 FEC ASSIGNMENTS

At all times a FEC must be on site or on call (20 NMAC 4.1, Subpart V, 40 CFR 264.55). In the event that the primary FEC is not on site or available, an alternate FEC must be contacted.

FACILITY EMERGENCY COORDINATOR		OFFICE PHONE	HOME PHONE	PAGER
Primary:	David CastilloJeff Jarry P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	284-4192284-3080	269-1705697-2108	951-6340951-6332
Alternate:	Ken Tetreault P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	844-1346 or 270-4089	822-6336	283-1949
~~Alternate:~~	~~Dave Castillo~~ ~~P.O. Box 5800~~ ~~MS-1117~~ ~~Albuquerque, New Mexico 87185-1117~~	~~284-4192~~	~~269-1705~~	~~951-6340~~
Alternate:	Chris Dean P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	284-8083 or 350-4982	268-8913	283-1942
Alternate:	Mary Ann Krauss P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	845-9997	299-0793	951-6335

CONTINGENCY PLAN
FOR THE
HAZARDOUS WASTE MANAGEMENT FACILITY

Sandia National Laboratories
Albuquerque, New Mexico

September 2011

Recommended by:

_____ _____
David Castillo, Hazardous Waste Facility Site Manager Date

Approved by:

_____ _____
Pamela M. Puissant, Acting Department Manager, 4144 Date

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1.0 INTRODUCTION

Sandia National Laboratories/New Mexico (SNL/NM) has prepared this Resource Conservation and Recovery Act (RCRA) Contingency Plan for the Hazardous Waste Management Facility (HWMF) in compliance with New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 40 Code of Federal Regulations (CFR) 270.14(b)(7) and 20 NMAC 4.1, Subpart V, 40 CFR 264.50 through 264.56, as applicable. This plan consists of descriptions and emergency procedures specific to the Hazardous Waste Management Facility (HWMF). This Contingency Plan supersedes all previous revisions.

Independent from this Plan, SNL personnel have also prepared SNL Emergency Plans and Procedures. The SNL Emergency Plan, incorporated in this Plan by reference, describes the corporate emergency response for all SNL/NM facilities. The SNL Emergency Plan also describes all of the written agreements between SNL/NM and local emergency response teams such as the Kirtland Air Force Base (KAFB) Fire Department, City of Albuquerque, and nearby hospitals. The SNL Emergency Plan is maintained and implemented by SNL/NM emergency management personnel.

1.1 DISTRIBUTION

To assure proper implementation in the event of any emergency, this Contingency Plan must be studied and understood by all personnel involved in the handling, storage, or treatment of hazardous waste at the HWMF and by personnel required to respond to emergency situations involving hazardous waste.

Copies of this RCRA Contingency Plan will be on file at the following locations:

- Hazardous Waste Management Facility, SNL/NM
- Emergency Operations Center, SNL/NM
- Regulated Waste and Pollution Prevention Department, SNL/NM
- New Mexico Environment Department
- Department of Energy, National Nuclear Security Administration, Sandia Site Office, Oversight and Assessments

1.2 PURPOSE

The purpose of this document is to define responsibilities, provide guidance for coordination of activities, and minimize hazards to human health or to the environment from fires, explosions, or any unplanned sudden or nonsudden release of hazardous waste. The provisions of this plan will be carried out immediately whenever there is a fire, explosion, spill, or release of hazardous waste constituents that could threaten human health or the environment outside the facility.

Minor accidents, those that can be controlled with HWMF resources and do not threaten human health, or the environment outside the HWMF boundaries, will be managed by trained HWMF personnel. After control of the situation, the Regulated Waste and Pollution Prevention Department Manager will be notified by the Facility Emergency Coordinator (FEC) (Section 2.0). Response to minor incidents is not considered activation of this Contingency Plan. In the case of emergencies (e.g., large spills, fire, explosion, aircraft incidents, or natural disasters) that threaten hazardous waste management activities at the HWMF, the FEC will activate this Contingency Plan and notify the SNL/NM Emergency Operations Center at 911 or 844-0911. The SNL/NM Emergency Operations Center assumes primary responsibility for response coordination.

1.3 FACILITY DESCRIPTION

SNL/NM is a multidisciplinary laboratory engaged in the research and development of weapons and alternative energy sources. SNL/NM is managed by Lockheed Martin for the U.S. Department of Energy (DOE). SNL/NM falls under Standard Industrial Classification Code Numbers 9711 (national defense organizations) and 7391 (research and development).

SNL/NM is located in Bernalillo County, New Mexico, adjacent to the southeastern boundary of Albuquerque. SNL/NM occupies an area of about 2,810 acres located in the eastern portion of the 52,233-acre KAFB. SNL/NM consists of five technical areas, designated Tech Area I through V, as well as remote test areas.

Hazardous Waste Management Facility

The HWMF is located in Tech Area II, approximately 1,000 feet north of the entrance to Tech Area II. The HWMF consists of two separate permanent buildings, the Waste Packaging Building (Building 959) and the Waste Storage Building (Building 958), located within a single 8-foot fenced enclosure. Additionally, the following structures are located at the facility within the fenced area:

- Six supply sheds (Buildings 959A, C, D, E, F, and G)
- Two identical self-contained, relocatable, prefabricated storage structures for water-reactive waste and other reactive waste (Building 958B and Building 958C)
- A waste oil storage area
- Catchment pond
- Two office trailers (Trailer Nos. 1 and 2)

The Waste Packaging Building is the easternmost building and provides 1,800 square feet of enclosed floor space. The building is of precast concrete construction with an eave height of 12 feet. Eight recessed waste holding cells and a recessed repackaging area are located in the building. The floor and lower wall surface of each recessed area is coated with an epoxy finish. A restroom, a general use area, an office area, and an area for packing materials are also present.

A deluge-type system provides fire protection throughout the building. The system is designed for Extra Hazard Group 1 occupancy and complies with the provisions of the National Fire Protection Association Standard No. 13, 1985 edition. No water-reactive waste is stored in areas protected by wet sprinkler fire suppression.

The building is also provided with intrusion alarms, lightning protection, emergency lighting, and a telephone. A 1,200-square-foot covered outdoor area extends immediately to the west of the Waste Packaging Building.

The Waste Storage Building is located west of the Waste Packaging Building. The Waste Storage Building is a 3,520-square-foot precast concrete building with an eave height of 14 feet. The building includes eight separate and recessed waste storage compartments for segregation of waste groups. The floor and lower wall surface of each storage compartment is coated with an epoxy finish. The sprinkler system is this building is a deluge-type and is also designed for Extra Hazard Group 1 occupancy. The building is equipped with a telephone, a fire alarm system, intrusion alarms, emergency lighting, and lightning protection.

Two relocatable, prefabricated safety storage structures (Buildings 958B and 958C) are designed and constructed to comply with regulatory standards applicable to the safe storage of hazardous materials. The safety storage structures are used for the storage of reactive wastes and lithium batteries and waste poison and flammable gases. They are constructed of welded 10- and 12-gauge steel with supporting structural steel sections. Each structure has three doors, each with a three-point locking system to provide access and security. The 500-gallon containment reservoirs within each building, the walls, and the ceilings are covered with two coats of chemical-resistant epoxy. The reservoirs are lined with polypropylene, which is compatible with reactive wastes. The floors are 1-inch-thick vinyl ester fiberglass grating. The buildings are equipped with a dry chemical fire suppression system and an automatic alarm-dialing system. Both the security and fire departments are notified that the dry chemical fire suppression has been released by a panel box light. The dry fire suppression system is compatible with the storage of reactive materials. Other safety features in each of the buildings

include a spill-containment subfloor constructed of continuously welded, epoxy-coated, 10-gauge steel; blow-out panels for pressure relief under explosive conditions; and a static grounding connection to protect against ignition of flammable materials by electrical discharge.

An outdoor area is located immediately west of the HWMF Waste Packaging Building and is covered by a steel-framed roof. A drum compactor is located within the concrete bermed area.

The Office Trailers are for business operations of the HWMF. Two 1960-square-foot moveable trailers are located along the south fence.

The Bermed Storage area is an approximately 3,700-square-foot concrete bermed area covered by a steel frame and roof. It is located at the northeast corner of the fenced area.

Five 160-square-foor moveable sheds (Buildings 959A, C, E, F, and G) and one 120-square-foot permanent storage shed (Building 959D) are used for equipment storage.

The HWMF is enclosed in an 8-foot, single chain-link and barbed wire fence. Offset space of at least 70 feet is provided between the permanent buildings and the fence line. The safe handling, treatment, and/or storage of hazardous waste is the responsibility of the Regulated Waste and Pollution Prevention Department. Hazardous chemical waste is generated at all five of the SNL/NM Tech Areas and is transported to the HWMF on a routine basis. All hazardous waste is sent to the HWMF for packaging, and storage prior to transportation off site for recycling, treatment or disposal at a permitted facility. Some waste streams are also sampled at the HWMF.

Hazardous chemical waste generated at SNL/NM that requires packaging is transported to the Waste Packaging Building. There, waste is segregated into compatible types, based on U.S. Department of Transportation (DOT) regulations (49 CFR 177.848) and placed into the appropriate holding cell. The waste is assembled into lab-packs or bulk transferred into 55-gallon drums. Completed lab-packs and full waste drums are moved to the appropriate storage

area to await transport off site for treatment, recycling, or disposal. Incompatible waste is segregated and stored in different holding cells.

Any necessary overpacking of drums or repacking of material in damaged or leaking drums occurs within the Waste Packaging Building. Waste that does not require repackaging is transported directly to the Waste Storage Building to await transport off site to disposal, treatment or recycling locations.

Waste handling equipment currently in place at the HWMF includes the following:

- Diaphragm pump
- Pneumatic pumps
- Dual-action hand pumps
- Drum-handling hand truck (two-wheel)
- Hydraulic drum handler – 800 pound capacity
- Empty drum compactor
- Forklift drum carriers

1.4 TYPES OF WASTE

Overall responsibility for hazardous waste management at SNL/NM is with the Regulated Waste and Pollution Prevention Department. Generators of hazardous waste throughout SNL/NM are responsible for properly identifying and packaging their waste before it is transported to the HWMF.

The chemical waste at SNL/NM is generated by laboratory research activities, process operations, and environmental restoration activities. Typical laboratory research waste includes bottles of excess or residual chemical mixtures and solutions and solid laboratory waste such as contaminated rags or nickel-cadmium batteries. This type of waste is primarily stored in the bays of the Waste Packaging Building or in lab-packs in the Waste Storage Building. Typical process waste includes large volumes (5- to 55-gallon containers) of solvents, oils, photochemicals and corrosive solutions. This type of waste is primarily stored in the Waste Storage Building. Typical environmental restoration activity waste includes contaminated soil cuttings, personal protective equipment, and decontamination fluids. This type of waste is primarily stored in the Waste Storage Building.

Because of the changing efforts at SNL/NM, the volumes and waste streams stored at the HWMF continually vary from day to day. The location of each hazardous waste and the approximate quantity of hazardous waste at each location is available at the HWMF.

1.5 HWMF SCHEDULE

SNL/NM HWMF is manned from 0800 to 1630, Monday through Thursday, and 0700 to 1530 on Friday. The Safeguards and Security Center inspects the facility every eight hours during the time the facility is closed. If an emergency is discovered during these inspections, the SNL/NM Emergency Operations Center and the FEC (Section 2.0) will be notified immediately.

2.0 FACILITY EMERGENCY COORDINATORS

2.1 FEC ASSIGNMENTS

At all times a FEC must be on site or on call (20 NMAC 4.1, Subpart V, 40 CFR 264.55). In the event that the primary FEC is not on site or available, an alternate FEC must be contacted.

FACILITY EMERGENCY COORDINATOR		OFFICE PHONE	HOME PHONE	PAGER
Primary:	David Castillo P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	284-4192	269-1705	951-6340
Alternate:	Ken Tetreault P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	844-1346 or 270-4089	822-6336	283-1949
Alternate:	Chris Dean P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	284-8083 or 350-4982	268-8913	283-1942
Alternate:	Mary Ann Krauss P.O. Box 5800 MS-1117 Albuquerque, New Mexico 87185-1117	845-9997	299-0793	951-6335

2.2 FEC RESPONSIBILITIES

When the FEC is notified of an incident, he must first determine if procedures for minor incidents or for emergencies should be implemented. In the case of minor incidents, the FEC will coordinate the response. In the case of emergencies, the FEC will relinquish control to the Incident Commander (IC) (assigned by the Emergency Operations Center Emergency Response Director) when he or she arrives to handle the emergency; however, the FEC will remain on hand to provide technical guidance and relevant information about the HWMF.

The FEC will ensure that personnel assigned to the HWMF are trained in the location and use of safety showers/eyewash, fire extinguishers, and emergency protective clothing; in emergency procedures; and in evacuation procedures.

During minor incidents at the HWMF, or until the IC arrives, the FEC has three primary responsibilities:

1. Assess the Situation. By observing the scene, interviewing personnel, and/or reviewing records, the FEC must gather information relevant to the response, such as the type of event, quantity and type of released material, and actual or potential hazards to human health or the environment.

2. Protect Personnel. The FEC should take any reasonable measures to ensure the safety of personnel, such as activating the fire alarm, accounting for HWMF personnel, attending to injuries, or coordinating the evacuation of HWMF personnel, if necessary. If evacuation is indicated for other personnel, the IC must be informed.

3. Contain or Mitigate the Hazards. The FEC should take reasonable measures to ensure that fires, explosions, or releases do not occur, recur, or spread. For example, released water-reactive material should be kept dry.

After both minor incidents and emergencies, the FEC must ensure that the facility and equipment are cleaned, waste is properly handled and disposed, and the HWMF is safe to resume operation. Before operations are resumed, the FEC must contact the Regulated Waste and Pollution Prevention Department, who will inform the appropriate agencies, if necessary. See Emergency Recovery Procedures, Section 5.0.

3.0 HWMF RESPONSE PROCEDURES

During normal working hours, the first person to become aware of an incident shall contact the FEC. Note that any person is authorized to implement the evacuation procedures and notify the SNL/NM Emergency Operations Center in the unlikely event that the FEC and all alternate FECs cannot be contacted or respond in a timely manner.

Only personnel trained in incident response activities will approach or handle unplanned situations. All other personnel will leave the vicinity of the unplanned conditions.

The FEC will assess the situation and determine the scale of the incident. If the FEC determines that an emergency situation exists at the HWMF (i.e., large spills, fire, explosion, aircraft incidents, or natural disasters) that threatens human health or the environment outside the HWMF, he will immediately notify the SNL/NM Emergency Operations Center at 911 or 844-0911 and activate this Contingency Plan. The SNL/NM Emergency Operations Center then assumes primary responsibility for emergency response coordination. The SNL/NM Emergency Operations Center will notify the National Response Center (1-800-424-8802) with the details of the emergency, if necessary.

The SNL/NM Emergency Operations Center operates within the SNL/NM Incident Command System (ICS) – a management system used to coordinate the efforts of all SNL/NM response teams and capabilities and other response teams, such as KAFB Fire Department, as needed. The ICS is a system that is implemented at the time an incident occurs, expanded to control the incident as needs arise, and which remains in effect until the need for management no longer exists. The SNL/NM Emergency Operations Center, when activated, is manned by the Emergency Response Director and a staff consisting of DOE personnel, SNL/NM management, KAFB staff, and representatives from various response groups. Under the SNL/NM Emergency Operations Center, the IC is responsible for management of operations at the emergency site. The IC coordinates operations with the four SNL/NM Emergency Operations Center sections:

Operations, Logistics, Safety, and Planning. The Operations Section identifies and carries out the actions necessary at the site to contain the emergency.

The Logistics Section identifies, acquires, deploys, and mobilizes the supplies, material, and equipment needed to deal with an emergency. Under the Logistics Section, Facilities Engineering has teams capable of responding to incidents that require knowledge of buildings and utilities; use of heavy equipment; and transportation of material, equipment, or personnel.

The Safety Section is responsible for ensuring that Medical and ES&H resources are available as needed. The Medical organization has established a Medical emergency response team that responds to all medical emergencies during operational hours. The type of response to each emergency is determined through information received about the emergency. ES&H is primarily responsible for responding to releases of hazardous or toxic materials at facilities located within SNL/NM and for providing consulting services associated with personnel safety and health.

The Planning Section is responsible for collection of data (resources available, whether, field observations, etc.)

3.1 MINOR INCIDENTS

In the event that the FEC determines an incident to be minor, a person will be assigned to standby at a safely located telephone. At the first indication of incident escalation, the standby person will be instructed to notify SNL/NM Emergency Operations Center at 911 or 844-0911. If the incident can be easily handled by the on-hand equipment, supplies, and labor, then it is a minor incident. Minor incidents do not require activation of this Contingency Plan.

Note: In no instance will a fire be considered a minor incident.

3.1.1 Controlled Spills

Since the HWMF usually handles hazardous waste in containers equal to or less than an 85-gallon drum, hazardous waste spills generally would be expected to be of 85 gallons or less.

- The first priority in a spill is personnel protection – do not attempt to do anything to a spill until proper personal protective equipment has been donned. Stay clear of the spill area, then assess the type of material spilled so proper cleanup procedures can be followed. Great caution in handling a spill must be exercised.

- The second priority in a spill is containment – if the spill is not in a contained area, use absorbent material to contain the spread of the spill before attempting sampling or cleanup.

A. If a spill occurs while working with a material:

1. Evacuate the immediate area, notify the FEC, and don appropriate personal protective equipment for exposure to the material.

2. If possible, secure the source of the release (i.e., tip the drum to stop the leak).

3. Use a portable hand-pump to transfer the spill to a new receiving drum if the material spilled is sufficient to form a pumpable pool.

4. After pumping or if the spill is small, spread absorbent over the area of the spill and transfer the contaminated absorbent to the new receiving drum.

5. Stabilize flammable solvent spills with the organic solvent spill kit.

6. Stabilize other chemical spills using the SNL/NM acid and caustic spill kits or by the addition of absorbent.

7. Handle the stabilized material as a hazardous waste. Sweep, shovel, or pump it back into the drums.

8. Remove contaminated soil, if any, and transfer to new receiving drums.

9. Remove any contamination from floors, walls, and other containers with a solvent appropriate to the spilled material and transfer all solvent and cleaning materials to the new receiving drum.

10. Properly identify the new receiving drum.

11. Promptly complete a weekly inspection log and include the details of the spill and cleanup in the log.

12. Handle the original spill container in the same manner as a bulging or leaking drum.

13. Decontaminate all reusable spill cleanup equipment.

B. If an unattended spill is discovered:

1. Leave the immediate area of the spill, notify the FEC, and don complete personal protective equipment including a Self-Contained Breathing Apparatus (SCBA).

2. Cautiously approach the area of the spill and attempt to ascertain the source of the spill.

3. If the spill material can be identified from the source container, handle the spill as in A above.

4. If the spill material cannot be identified, collect a sample of the material.

5. Obtain a rush analysis of the sample from an SNL/NM or commercial laboratory.

6. Once the material has been identified, proceed as in A above.

3.1.2 Leaking or Punctured Drums

1. Leave the immediate area and notify the FEC.

2. Identify the material inside the drum, based on drum log or inventory records.

3. Based upon the hazardous characteristics of the material in the drum, select appropriate personal protective equipment.

4. After donning personal protective equipment and securing emergency equipment, spread absorbent material around the drum to absorb the leak.

5. If the spill material can be identified from the source container, handle the spill as in A above.

6. Be certain that the contents of the leaking drum have been emptied into the new receiving drum.

7. Crush the leaking drum and handle as determined by the HWMF Disposal/Request (DR) chemist.

3.1.3 Bulging Drums

1. Notify the FEC.

2. Identify the material inside the drum, based on log or inventory records.

3. Based upon the hazardous characteristics of the material in the drum, select appropriate personal protective emergency equipment and a new receiving drum.

4. After donning personal protective equipment and securing emergency equipment, carefully and slowly open a bung to relieve the internal pressure.

5. Use a portable pump to transfer the material from the bulging drum to the new receiving drum. Properly mark new receiving drum.

6. Be certain that the contents of the bulging drum have been emptied into the new receiving drum.

7. Crush the drum and dispose of it as determined by the HWMF DR chemist.

8. Clean up any material that spilled during the transfer.

9. Record event summary in facility operating record.

3.1.4 Personal Exposure

In the event of chemical material in the eye or on the skin:

1. Notify the FEC.

2. Wash the eye(s) or skin using the permanent shower/eyewash station for at least 15 minutes.

3. Hold the eyelids open during washing.

4. Call 911 or 844-0911 to arrange for transport of the injured person to the SNL/NM Medical Clinic for evaluation.

5. If possible, the FEC should ascertain what chemical material was involved in the injury and give the information to the SNL/NM Medical Clinic.

In the event of:

- Irritation of the eyes, breathing passages or skin
- Difficulty in breathing
- Nausea, light-headedness, vertigo, or blurred vision

Personnel will:

1. Notify the FEC.

2. Evacuate and barricade the area to prevent unauthorized entry.

3. Call 911 or 844-0911 to arrange for transport of the injured person to the SNL/NM Medical Clinic for evaluation.

4. The FEC should attempt to ascertain what, if any, chemical exposure occurred and what corrective measures are appropriate.

3.1.5 Power Failure

The only equipment at the HWMF that would be affected by a power failure are the building lights, alarm system, ventilation exhaust fan, and electrical pumps. All other equipment is either self-powered or manually operated. The HWMF is equipped with an emergency power source in the event of utility failure. However, should total power failure occur, battery-operated lights will automatically turn on. Manually operated drum carts and pumps may be utilized. In the event of a power failure, secure any work in progress within the HWMF until power is restored.

3.1.6 Equipment Failure at the HWMF

1. Lights: Fixed battery-operated lights will operate.
2. Alarms: Emergency power supply will operate alarm devices.
3. Pumps: Use portable manually or pneumatically operated pumps.
4. Drum-handling equipment: Call the Transportation Team and secure forklifts and drum-handling equipment.
5. Personal Protective Equipment: Replace, as needed, with supplies in the HWMF equipment storage areas.
6. Vehicles: Call the Transportation Team and secure replacements for vehicle.
7. Telephone: Use cellular telephones.
8. Fire sprinklers: Use portable fire extinguishers.

3.2 EMERGENCIES

In the event of an emergency, the FEC or an assignee will immediately telephone the SNL/NM Emergency Operations Center (911 or 844-0911). Emergencies require the activation of this Contingency Plan and SNL/NM emergency response resources. Upon arrival at the scene, the IC will determine the extent of the emergency, cordon off the area, and notify appropriate response personnel. All personnel not involved in combating the emergency will be directed to evacuate the area and assemble in a convenient location upwind and away from the involved area.

If the FEC and IC determine that the emergency could threaten human health or the environment outside of KAFB, the IC or assignee will then notify the National Response Center (1-800-424-8802) and the New Mexico Spill Response (505-827-9329) to provide the following information:

1. Name and telephone number of reporter
2. Name and address of facility
3. Time and type of incident (e.g., fire, release, explosion)
4. Name and quantity of materials involved to the extent known
5. Extent of injuries, if any, and
6. The possible hazards to human health or the environment outside of KAFB.

The Regulated Waste and Pollution Prevention Department will report the same information to the Secretary, New Mexico Environment Department (NMED).

The FEC must be especially cognizant of the potential release of hazardous materials and take every available measure to minimize the magnitude of that release.

3.2.1 Fire

Any fire in the HWMF vicinity is defined as an emergency. This includes any fire involving hazardous waste or hazardous material, or any building, vegetation, or nonhazardous waste fire that threatens to ignite hazardous waste.

1. Prior to any fire fighting, the KAFB fire department will be notified by activation of a manual pull alarm, activation of an automatic fire alarm, or by dialing the SNL/NM Emergency Operations Center at 911 or 844-0911.

2. Fire-fighting personnel must wear appropriate personal protective equipment.

3. If the fire is small and the fuel source is small, portable fire extinguishers may be used to put out the fire.

Note: Use only Lith-X fire extinguishers for water-reactive waste.

4. Whenever possible, remove flammable material from the area of fire.

5. If the fire spreads or increases in intensity, all personnel should evacuate to an upwind point at least 100 yards away from the fire.

6. The FEC should remain near the site, but at a safe distance, so he can advise the personnel responding to the fire of the known hazards.

7. Ensure that storm drains and/or sewers do not receive potentially hazardous runoff. Build dikes around storm drains or close any valves controlling discharge.

8. Upon arrival at a fire, the KAFB fire department officer-in-charge will be in command of fire fighting. He will accept and evaluate the advice of SNL/NM personnel and emergency response organization members, but he retains the responsibility to select the fire-fighting methods and tactics.

9. The IC will be in overall control of SNL/NM emergency response efforts until the emergency is terminated.

10. Materials involved in a fire can be identified in the following ways:

    - The location of the drum may indicate the contents of the drum (e.g., drums in the caustic storage bay contain caustics).

    - If the location of the drum does not indicate its contents, the label number can be used to identify the material. Records on the contents of each drum are kept in database that can be accessed from off site or in the HWMF office.

    - If the label has been burned, the number painted on the drum can be used to identify the material.

- If the label and number are destroyed by fire, the material will be treated as an unknown and analyzed according to methods in the SNL/NM Waste Analysis Plan and U.S. EPA "Test Methods for Evaluating Solid Waste Physical Chemical Methods," SW-846, Third Edition.

11. An absorbent will be poured over all chemical residues resulting from a hazardous waste fire. Once the liquid is absorbed, the waste will be swept or shoveled back into the drums, and the surface will be cleaned using cleaners appropriate to the chemicals.

12. Fire-fighting waters collected in the catchment pond at the HWMF are analyzed to determine an appropriate disposal method.

3.2.2 Explosion

The following procedures will be implemented in the event that an unplanned explosion of hazardous waste occurs or the danger exists that an explosion is imminent.

1. Immediately evacuate the area.

2. The FEC will contact the SNL/NM Emergency Operations Center (911 or 844-0911), who will in turn immediately notify the KAFB fire department and appropriate response personnel.

3. Immediately transport any injured personnel to the SNL/NM Medical Clinic for treatment.

4. The FEC will remain near the site, but at a safe distance, so he can advise the personnel responding to the explosion of the known hazards involved and the degree and location of the explosion and associated fires.

5. Upon arrival at the site, the KAFB fire department officer-in-charge will be in command of fire fighting. He will accept and evaluate the advice of SNL/NM personnel and emergency response organization members, but he retains the responsibility to select the fire-fighting methods and tactics.

6. The IC will be in overall control of SNL/NM emergency response efforts until the emergency is terminated.

7. An absorbent will be poured over all chemical residues resulting from a hazardous waste explosion. Once the liquid is absorbed, the waste will be swept or shoveled back into new receiving drums and the surface cleaned using cleaners appropriate to the chemicals.

8. The FEC will secure all operational units (e.g., process equipment, ventilation equipment) that may be affected directly or indirectly by the explosion once the areas needed to be entered have been determined safe by the IC or a safety officer.

3.2.3 Uncontrolled Releases

The FEC will implement the following procedures in the event that a hazardous waste or hazardous material spill causes an immediate health hazard, cannot be contained with secondary containment or application of absorbents, or a threat exists for spilled material to move out of the HWMF boundaries:

1. Evacuate the immediate area.

2. The FEC and Regulated Waste and Pollution Prevention Department personnel will review facility records (e.g., waste inventory database) to determine the identity and chemical nature of released material. The waste inventory database may be accessed from off site or in the HWMF office.

3. Don appropriate personal protective equipment for exposure to the material.

4. If possible, secure the source of the release.

5. Build a dike to contain runoff.

6. Ensure that storm drains and/or sewers do not receive potentially hazardous runoff or spill material. Build dikes around storm drains or close any valves controlling discharge.

7. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

8. No waste that may be incompatible with the released material will be treated, stored or disposed of until cleanup procedures are complete.

9. After collection of a released material, the release site will be sampled and evaluated. If contamination is found to exist, contaminated materials may be collected, drummed (if appropriate), and removed from the site for disposal at a permitted disposal facility. Depending on the specific conditions, however, SNL/NM may choose to implement an alternative decontamination method such as surface cleaning or in situ

neutralization or stabilization. Any such alternative will be discussed with the NMED prior to implementation.

3.2.4. Natural Emergencies

After any natural emergency (earthquake, flood, lightning strike, etc.) the FEC shall:

1. Inspect all containers and containment for signs of leakage or damage.
2. Inspect all operational units for proper operating mode and manually check to ensure all automatic and alarmed features on the unit are working.
3. Inspect all piping, valves, and fixed pumping units for damage.
4. Inspect electrical boards, overhead electrical lines, and poles for damage.
5. Check drum storage area for signs of leakage or damage to storage drums, containers, or carboys.
6. Check all buildings and fencing for damage.
7. Conduct a general survey of the site looking for signs of land movement, etc.
8. Take any necessary corrective measures, however temporary, to rectify potential or real problems.
9. Record all inspection results.

3.2.5 Aircraft Emergencies

The close proximity of the KAFB landing strip to the HWMF make the possibility of an aircraft emergency plausible. Any associated HWMF emergency involving aircraft will be handled as an explosion (Section 3.2.2).

3.3 EVACUATION

The FEC will initially make the determination to evacuate the HWMF. The facility will be evacuated upon the voice command of "evacuate the area" or upon the sounding of the evacuation/fire alarm.

3.3.1 Evacuation Procedures

The following procedures will allow for a safe, coordinated evacuation:

1. When an evacuation is announced, stop work.
2. Shut down predesignated operations that could contribute to further hazards unless an "immediate" building evacuation is announced.
3. Proceed to the closest building exit unless blocked by hazards.
4. Do not remain in affected area except to assist injured personnel.
5. Exit building and proceed to the east or west gate upwind of the fenced HWMF area.
6. Report to designated assembly area for roll call (taken by HWMF Site Manager or his assignee).
7. Be continually cognizant of wind directions (stay upwind) and emergency equipment.
8. Do not re-enter fenced area until the FEC (minor incidents), the IC, or a safety officer (emergencies) determines that all is safe and secure.

3.3.2 Evacuation Routes

Maps of the evacuation route are posted at the entrances to both of the permanent buildings and the office trailers. The HWMF Site Manager is responsible for ensuring that all new employees and site visitors are familiar with evacuation procedures and routes of evacuation. A map showing the evacuation routes at the HWMF is provided in Attachment 1.

4.0 EMERGENCY EQUIPMENT

4.1 HAZARDOUS WASTE MANAGEMENT FACILITY

The following is a list of dedicated emergency equipment located at the HWMF.

Showers and eyewashes: Fixed, equipped with eyecups and overhead shower, one in the HWMF Waste Storage Building, one in the HWMF Waste Packaging, and one in the Drum Crushing Area.

Fire extinguishers:

- Portable ABC – One at both the north and south entrances of the HWMF Waste Storage Building, one at both the north and south entrances of the HWMF Waste Packaging Building, one at each entrance to the HWMF Office Trailer No. 1, one near the door of the permanent storage shed (Building 959D), one at the southwest corner of the Bermed Storage Area, and one near the east entrance to the mechanical room of the HWMF Waste Packaging Building.

- Lith-X – One in the general-use area of the HWMF Waste Packaging Building and one in the office of the HWMF Waste Packaging Building.

Fire alarm system: Alarm signal sent to KAFB fire station. The fire-extinguishing system in the relocatable water-reactive chemical storage sheds is linked to the alarm system as well.

Fire alarm pull boxes:

- One on the interior walls near the north and south entrances of the HWMF Waste Storage Building (Building 958)

- One on the exterior walls near the north and south entrances of the HWMF Waste Packaging Building (Building 959)

- One in the office area of the HWMF Waste Packaging Building (Building 959)

- One on the east wall of the mechanical room in the HWMF Waste Packaging Building (Building 959)

- One on the east wall of the records room in the HWMF Waste Packaging Building (Building 959)

Telephone: One on the interior walls near the north and south from the HWMF Waste Storage Building, one in the HWMF Waste Packaging Building office, and one in each occupied office in each office trailer.

Fire sprinkler system:

- Water, deluge type, in the HWMF Waste Packaging Building
- Water, deluge type, in the HWMF Waste Storage Building
- Ansul dry system, in the relocatable water-reactive storage structures

Portable pump: Compressed-air-driven

First-aid kit: Standard first aid kit: One in both the packing room and the bathroom of the HWMF Waste Packaging Building

SCBA: At least six, two each at the perimeter fence (south of entrance gate), two each in the HWMF Waste Packaging Building office area, two each inside the HWMF Waste Storage Building (South end) and two each inside Trailer 2.

Goggles/face-shields: Chemical splash goggles/chemical-resistant face-shield, at least two each

Gloves/boots/coveralls: Latex, leather, pylox, nitrile and neoprene gloves; cotton, saranex, and Tyvek coveralls; rubber boots, at least five each

Respirators, purifying: Full-face

Cartridges: Organic vapors and acid gas; high-efficiency filter; ammonia and methylamine; dust, fumes, and mist; at least 10 each

Miscellaneous safety equipment: Hardhats, hearing protection, and safety glasses.

Miscellaneous response equipment: Absorbent materials, decontamination equipment, and salvage drums.

4.2 SNL/NM EMERGENCY EQUIPMENT

Equipment available for use at SNL/NM and the locations of this equipment are provided below:

ITEM OR EQUIPMENT	LOCATION/TELEPHONE
Emergency Vehicles	
Emergency Response Vehicle: Mobile Command Post equipped with communications equipment and SCBA.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Ambulances	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Security Vehicles: Vans and trucks equipped with communications equipment and utilized for transportation of personnel and equipment.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Fire Trucks: Fire-fighting vehicles outfitted with equipment for fighting fires.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Helicopter: Rotary-wing aircraft for transportation of personnel to or from site.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Medical Supplies	
Stretchers/Stokes Litter: Equipment for movement of Injured personnel. Stokes Litter will immobilize Personnel so they may be moved vertically.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Blankets: Normal Blankets.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Medical Kits: Emergency first-aid supplies.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Oxygen: Medical grade oxygen in compressed cylinders equipped for personnel use.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Safety Supplies	
Air Packs: Self-contained breathing apparatus equipped with positive pressure mode for use by personnel entering hazardous atmospheres. Cylinders contain sufficient air for 60 minutes. No fewer than six air-packs are available.	SNL/NM Emergency Operations Center – Call 911 or 844-0911
Monitoring Instruments	Personal Monitoring and Laboratory Services – Call 844-2310

Transportation

Tractor-trailer combinations, 18 wheelers, 40-foot trailers, 40,000-pound capacity (7)	SNL/NM Emergency Operations Center – Call 911 or 844-0911
2-ton flat-bed trucks with sideboards (6)	
1-ton flat-bed trucks with sideboards (7)	
1.5-ton enclosed panel vans (4)	
Passenger vehicles including sedans and vans (10)	
Passenger buses (4)	

5.0 EMERGENCY RECOVERY PROCEDURES

5.1 POST-EMERGENCY INSPECTIONS

The following post-incident inspections will be done after minor incidents or emergencies:

1. After any incident, the FEC will inspect the premises for leaks or ruptures of equipment. The FEC will ensure that all spill-related material is handled or disposed of properly. The results of the inspection will be recorded on an inspection log.

2. Emergency response equipment must be carefully inspected and the equipment decontaminated, replaced, or refurbished if needed. Fire extinguishers must be checked for adequate charge. Personal protective equipment must be checked for contamination. Remedial equipment must be inspected for contamination and proper operation. Emergency showers/eyewashes must be checked for proper operation and portable showers/eyewashes checked for proper pressure.

   Within 24 hours of any incident, fire extinguishers should be replaced; personal protective equipment decontaminated, repaired or replaced; and portable showers/eyewashes refilled and pressurized.

   Within three days of an incident, other equipment and facilities should be decontaminated by cleaning with a solvent appropriate to the waste contamination. The spent solvent should be collected and treated as hazardous waste. All appropriate personal protective equipment must be worn during decontamination procedures.

   Within 30 days of an incident, other equipment should be repaired or replaced.

5.2 POST-EMERGENCY REPORTS

The following post-emergency reports will be made after emergencies:

1. A verbal report of any incident must be promptly reported to the FEC or to the Manager of the Regulated Waste and Pollution Prevention Department, if he was not informed of the incident during its occurrence. The SNL/NM Emergency Operations Center will also be notified of any incident. Verbal reports must also be made within 24 hours of the emergency to the National Response Center (see Section 3.2) and the Secretary, NMED.

2. For every incident that involves Contingency Plan implementation, a written emergency incident report will be prepared by the Regulated Waste and Pollution Prevention Department and forwarded to the DOE within three working days. The written report will include at a minimum:

- Name, address, and telephone number of the owner of SNL/NM
- Name, address, and telephone number of the HWMF
- Date, time, and type of emergency
- Name and quantity of materials involved
- Extent of injuries
- Assessment of actual or potential hazards to human health or the environment
- Estimated quantity and disposition of recovered material

The DOE will send the incident Report to the U.S. Environmental Protection Agency or the NMED within 15 days of the occurrence.

3. Before operations are resumed at the HWMF, the NMED will be notified that the HWMF is in compliance with 40 CFR 264.56(h).

5.3 EMERGENCY RESPONSE EVALUATION

SNL/NM emergency management personnel are responsible for annual evaluations of the SNL/NM Emergency Plan and for the evaluation of the response to each emergency. If these evaluations reveal that changes to the Emergency Plan are necessary, they will be amended by the SNL/NM emergency management personnel and distributed to the appropriate organizations.

This Contingency Plan will be reviewed and, if necessary, amended by HWMF personnel and the Regulated Waste and Pollution Prevention Department whenever:

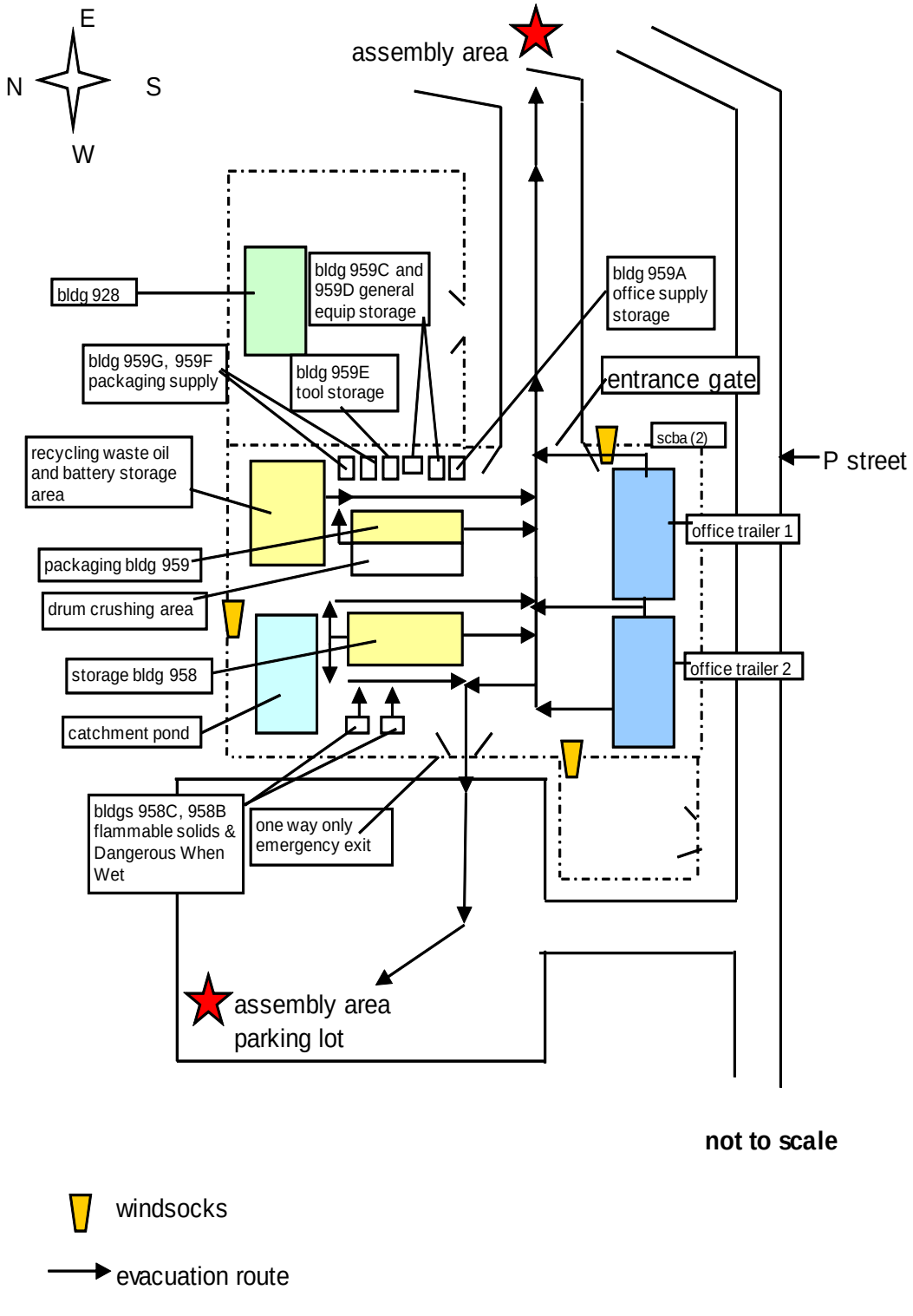
1. The facility permit or applicable regulations are revised.

2. The plan fails in an emergency.

3. The facility design, construction, operation, maintenance, or other circumstances change to increase the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency.

4. The list of FECs and/or phone number changes.

5. The list of emergency equipment changes.



Hazardous Waste Management Facility Evacuation Routes

ENCLOSURE B
SUMMARY OF CHANGES FOR CHEMICAL WASTE LANDFILL
POST-CLOSURE CARE PERMIT NM5890110518

Item No.	Location	Current Language	Revised Language	Explanation for Change	Modification Class Rationale
1	Table of Contents: List of Figures page vii	New Mexico Environment Department October 2009 *various page numbers*	New Mexico Environment Department September 2011 Permit Attachment 1 Permit Attachment 6 Figure 13 Chemical Waste Landfill Post-Closure Care Evacuation Route *various page numbers*	Revise date. Revise the list of figures to provide correct page numbers for several figures and to add Figure 13 (see item 5 below)	*Class 1 modification.* Administrative change, correction of typographic errors, and informational change. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modifications A.1 and A.2.
2	Permit Attachment 1 Figure 2	*Figure currently shows evacuation route along south edge of the landfill*	*Add evacuation route north of the landfill*	Update the figure to show an additional evacuation route in the immediate vicinity of the landfill.	*Class 1 modification.* Informational change. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification A.1.
3	Permit Attachment 6: *Contingency Plan* various pages	New Mexico Environment Department October 2009	New Mexico Environment Department September 2011	Revise date.	*Class 1 modification.* Administrative change. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification A.1.
4	Permit Attachment 6: *Contingency Plan* Page 116 Table 6-1	The University of New Mexico Medical Center: Mutual cooperation and assistance in providing timely and effective emergency medical services	*NONE*	Delete hospital from list as there is no longer an agreement for mutual cooperation and assistance. Two other hospitals remain on the list.	*Class 1 modification.* Informational change. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification A.1.

ENCLOSURE B
SUMMARY OF CHANGES FOR CHEMICAL WASTE LANDFILL
POST-CLOSURE CARE PERMIT NM5890110518

Item No.	Location	Current Language	Revised Language	Explanation for Change	Modification Class Rationale
5	Permit Attachment 6: *Contingency Plan* Page 118 Table 6-4	Communications: (Internal/External) Cellular Phone or Red Site radio In the vicinity of the Leachate Storage Area	Communications: (Internal/External) Cellular Phone, 2-way portable radio, or equivalent In the vicinity of the Leachate Storage Area or with operating personnel	Revise list of emergency equipment to include current equivalent equipment. Include additional potential location for equipment.	*Class 1 modification.* Replacement with functionally equivalent equipment, upgrade, or relocate emergency equipment listed. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification B.6.b
6	Permit Attachment 6: *Contingency Plan* Page 118 Table 6-4	Designated Assembly Area (See Figure 2)	Designated Assembly Area (See Figure 13)	Reference the additional figure (see Item 7 below). Add another figure in the contingency plan to show the assembly area, as this is not currently shown in Figure 2.	*Class 1 modification.* Informational change. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification A.1.

ENCLOSURE B
SUMMARY OF CHANGES FOR CHEMICAL WASTE LANDFILL
POST-CLOSURE CARE PERMIT NM5890110518

Item No.	Location	Current Language	Revised Language	Explanation for Change	Modification Class Rationale
7	Permit Attachment 6: *Contingency Plan* Page 124 Table 6-5	Primary: Donald P. Schofield Office Location: MO 203 P.O. Box 5800 Environmental Management MS-1089 Albuquerque, NM 87185 268-6888 844-4088 259-7098 (Cell) 1st Alternate: Bruce Reavis Office Location: MO 200 P.O. Box 5800 Environmental Management MS-1042 Albuquerque, NM 87185 296-0007 845-8403 250-6388 (Cellular) 530-7538 (Pager) 2nd Alternate: Robert Ziock Office Location: MO 202 P.O. Box 5800 Environmental Management MS-1088 Albuquerque, NM 87185 255-4714 845-0845 none	Primary: Donald P. Schofield P.O. Box 5800 MS-1126 Albuquerque, NM 87185 268-6888 844-4088 259-7098 (Cell) 1st Alternate: Robert Ziock P.O. Box 5800 MS-1126 Albuquerque, NM 87185 255-4714 845-0845 238-3668 (Cell) 951-6160 (Pager) 2nd Alternate: Danielle Nieto P.O. Box 5800 MS-1126 Albuquerque, NM 87185 239-3989 845-7706 239-3989 (Cell) 951-6537 (Pager)	Update emergency coordinator information to reflect current personnel responsibilities and contact information. Delete out-of-date information regarding office locations as this is not part of the address or phone number. Delete out-of-date department title information as this is not part of the address or phone number.	*Class 1 modification.* Changes in name, address, or phone number of coordinators. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification B.6.d
8	Permit Attachment 6: *Contingency Plan* Page 125 Figure 13	*NONE*	*Add a Figure 13 showing both evacuation routes and the assembly area.*	Add another figure in the contingency plan to show the assembly area, as this is not currently shown in Figure 2. See item 2 for discussion of evacuation routes.	*Class 1 modification.* Informational change. 20.4.1.900 NMAC 40 CFR 270.42, Appendix I, Modification A.1.

LIST OF FIGURES

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6.2.4. Support Agreements and Coordination with Outside Agencies

The Facility shall maintain sufficient response resources to handle most emergencies arising from hazardous waste management activities as described in this Contingency Plan. These response resources include personnel, emergency equipment, medical facilities, and communications systems. The Facility has also established mutual aid agreements and memoranda of understanding with several off-site agencies and facilities for additional response capabilities for the Facility. These agencies and facilities include the establishments listed in Table 6-1.

TABLE 6-1
Agreements and Memoranda of Understanding for Emergency Response

Agency or Facility	Type of Service
The New Mexico Department of Homeland Security and Emergency Management	Mutual aid involving an actual or potential emergency, assistance in training and emergency response for local and tribal governments.
The 377th Air Base Wing, Kirtland Air Force Base	Various types of support, including fire protection, police services, communications, and utilities.
The City of Albuquerque	Mutual support and responsibilities during a potential or actual emergency requiring the combined resources of DOE and the City of Albuquerque.
~~The University of New Mexico Medical Center~~	~~Mutual cooperation and assistance in providing timely and effective emergency medical services.~~
Lovelace Medical Center	Mutual cooperation and assistance in providing timely and effective emergency medical services.
Presbyterian Health Care Services	Mutual cooperation and assistance in providing timely and effective emergency medical services.

6.3. EMERGENCY EQUIPMENT

A list of equipment available through the Facility emergency response system is provided in Table 6-2. A list of emergency equipment to be maintained at the Corrective Action Management Unit for use at the CWL is presented in Table 6-4.

TABLE 6-3
Facility Emergency Response System Notification

Method	Emergency Number
Telephone	911
Mobile Telephone	(505) 844-0911

Note: Any person is authorized to implement the evacuation procedures, notify the EC or alternate EC, and/or contact the emergency response representatives in the unlikely event that the EC or alternate EC cannot be contacted or respond in a timely manner.

6.4.1. Emergencies

In the event of an emergency, the EC, a designee, or CWL personnel shall immediately telephone the EOC (by calling 911 or 844-0911) or notify them in some other way. The EC shall relinquish authority to the IC upon arrival. The EC and the IC shall:

1. Determine the extent of the emergency;
2. Identify the character, source, amount, and extent of released materials by observation, records reviews, or chemical analysis;
3. Assess possible resulting hazards to human health or the environment, considering both direct and indirect effects;
4. Take all reasonable measures necessary to ensure fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the CWL, including collecting and containing released waste, and removing or isolating containers; and

Monitor for leaks, pressure buildup, gas generation, and ruptures in equipment.

TABLE 6-4
Emergency Equipment for the Chemical Waste Landfill,
Located at the Corrective Action Management Unit

Category	Description	Specific Location at CAMU
Spill Control Equipment	Spill control materials, including sorbent material, brooms and shovels	Leachate Storage Area Shed
Fire Extinguisher	Portable, Multi-Class	One near the Leachate Storage Area and Containment Cell, and one in CAMU Administration Trailer
Communications: (Internal/External)	Cellular Phone, 2-way portable ~~or Red Site~~ radio, or equivalent	In the vicinity of the Leachate Storage Area or with operating personnel
Water Supply	Fire Hydrant Ground Hydrant	One outside the southeast entrance to the CAMU Two near the former Treatment Pad and two near the former Bulk Waste Staging Area
Environmental Safety and Health	Portable eyewash station	Leachate Storage Area Shed (during waste handling activities)
Evacuation	Voice command by on-site personnel or signaled by three blasts of a vehicle warning horn.	Designated Assembly Area (See Figure ~~2~~13)

CAMU = Corrective Action Management Unit.

TABLE 6-5
Emergency Coordinator List for the Chemical Waste Landfill

Emergency Coordinators[a]	Home Telephone	Office Telephone	Cellular or Pager
Primary: Donald P. Schofield ~~Office Location: MO 203~~ P.O. Box 5800 ~~Environmental Management~~ ~~MS 1089~~ Albuquerque, NM 87185	268-6888	844-4088	259-7098(Cell) 951-6153 (Pager)
~~1st Alternate: Bruce Reavis~~ ~~Office Location: MO 200~~ ~~P.O. Box 5800~~ ~~Environmental Management~~ ~~MS 1042~~ ~~Albuquerque, NM 87185~~	~~296-0007~~	~~845-8403~~	~~250-6388~~ ~~(Cellular)~~ ~~530-7538 (Pager)~~
1st~~2nd~~ Alternate: Robert Ziock ~~Office Location: MO 202~~ P.O. Box 5800 ~~Environmental Management~~ ~~MS 1088~~ Albuquerque, NM 87185	255-4714	845-0845	~~None~~238-3668 (Cell) 951-6160 (Pager)
2nd Alternate: Danielle Nieto P.O. Box 5800 Albuquerque, NM 87185	239-3989	845-7706	239-3989 (Cell) 951-6537 (Pager)

[a]At least one emergency coordinator must be at the CWL or CAMU unit or on call.

LIST OF FIGURES

Permit Attachment 1

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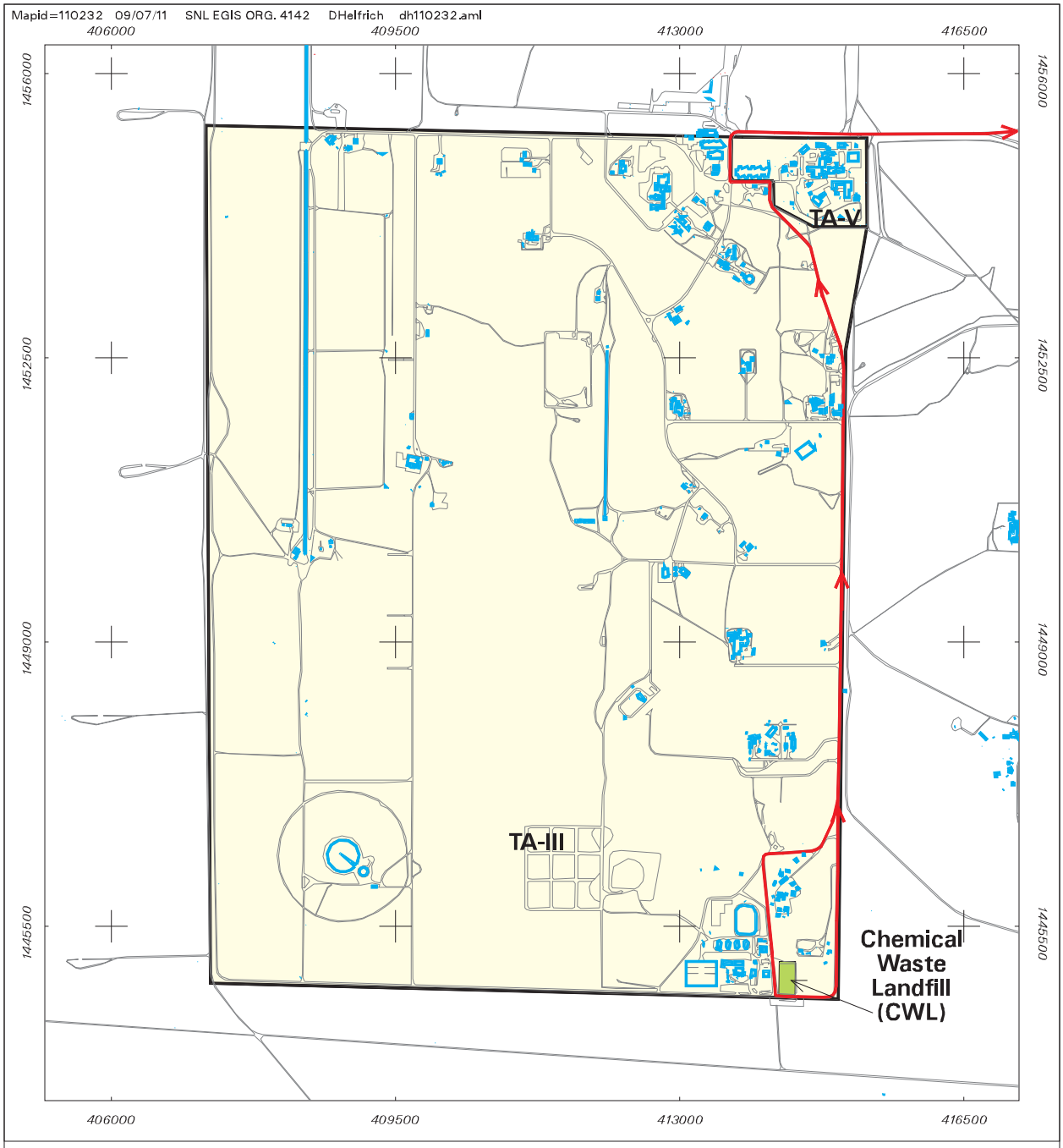


Legend

- Building / Structure
- Paved & Unpaved Road
- CWL Emergency Evacuation Route
- SNL Technical Areas III/V
- CWL

Figure 2
Location of the Chemical Waste Landfill within Technical Area III

0 1000 2000
Scale in Feet

0 240 480
Scale in Meters

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

PERMIT ATTACHMENT 6: CONTINGENCY PLAN

6.0 INTRODUCTION

The Permittees shall comply with the requirements at 40 C.F.R. Part 264 Subpart D, "Contingency Plan and Emergency Procedures," and 40 C.F.R. § 270.14(b)(7). Information specific to the Chemical Waste Landfill (CWL) is included in this Permit Attachment. Current copies of this Contingency Plan shall be maintained at both the Corrective Action Management Unit (CAMU) administrative trailer and the Facility's Emergency Operations Center (EOC). The CAMU is a RCRA-regulated remediation-waste management unit that is located about 100 yards northwest of the CWL. Emergency response resources for the CAMU are shared with the CWL.

The inactive CWL is a 1.9-acre hazardous waste landfill located in the southeastern corner of Technical Area (TA)-III (TA-III). A map that shows the locations of the Facility's TAs and the location of the CWL is presented on Figure 1 in Attachment 1 of this Permit. A more detailed map of the CWL area is presented.

Table 6-4 lists the emergency equipment that shall be maintained at the CAMU for use at the CWL. This equipment shall be tested on a quarterly basis and be shall maintained as necessary to ensure proper operation. Table 6-5 lists the emergency coordinators.

Waste Types

Hazardous waste generated at the CWL includes purge water derived from the sampling of groundwater monitoring wells, and personal protective equipment (PPE) waste generated during the sampling and management of purge water and the sampling of soil gas. Hazardous constituents may include, but are not limited to, volatile organic compounds and toxic and heavy metals. Waste generated at the CWL will be stored and managed at the CAMU less-than-90-day waste accumulation area or another established less-than-90-day waste accumulation area.

Purge Water Management

Purge water shall be collected and managed during groundwater monitoring activities by personnel who have received training in hazardous waste management. Whenever purge water is being pumped, poured, or otherwise handled, all personnel involved in the operation shall have access to a phone or radio to contact Facility and Kirtland Air Force Base (KAFB) emergency personnel, if necessary.

Facility personnel shall clean up spills immediately, and shall notify the Emergency Coordinator (EC) of the incident as required by Section 6.4 of this Contingency Plan; the EC will determine if the incident is an emergency. At least two samples shall be collected and analyzed to ensure complete cleanup has been achieved. Additional samples may be required by the New Mexico Environment Department (the Department) depending on the magnitude and character of the spill. The samples shall be analyzed for the same parameters as those required in this Permit for groundwater sampling. Field quality control samples, consisting of at least one field and one trip blank and one duplicate (for all analytes) shall also be collected and analyzed in a laboratory for each sampling event associated with a spill.

Container Management

Typical containers used to store waste generated during post-closure care monitoring activities at the CWL include 55-gallon drums that shall be managed in accordance with applicable provisions of 40 C.F.R. Part 262 and 40 C.F.R. Part 264 Subpart I.

6.1. DISTRIBUTION OF CONTINGENCY PLAN AND AMENDMENTS

Copies of this Contingency Plan shall be maintained at: 1) The CAMU, 2) The Facility EOC, and 3) The Facility Records Center. The Permittees shall also provide copies of this Plan and any amendments and updates of this Plan to the KAFB Fire Department and the Department.

The Permittees' EC(s) and the Facility emergency response organization (ERO) personnel shall periodically review this Contingency Plan. The Plan shall be amended, if necessary, whenever one or more of the following occurs:

1. Applicable regulations or Permit conditions are revised;
2. There is a significant change in Facility or Unit design, construction, maintenance, operation, or other circumstance that increases the potential for emergencies or changes the response necessary in an emergency;
3. The list of designated emergency coordinators changes;
4. The list of required emergency equipment changes; or
5. The Plan fails during an incident or an emergency.

6.2. EMERGENCY RESPONSE RESOURCES

Resources are available at the Facility, within KAFB, and in Albuquerque as described in this section.

6.2.1. Emergency Coordinator (EC) and Responsibilities

The EC and alternate ECs shall be thoroughly familiar with this Contingency Plan, the layout of the CWL, sampling and monitoring operations, the location of records, and the emergency equipment and supplies. The EC shall have the authority to commit the necessary resources (including personnel, materials, and funds) to respond to any incident or emergency at the CWL.

During an incident or emergency at the CWL, or until the Facility emergency response Incident Commander (IC) arrives, the EC has three primary responsibilities:

1. **Assess the Situation.** By observing the scene, interviewing personnel, and/or reviewing records, the EC must gather information relevant to the response, such as the type of event, quantity and type of released material, and actual or potential hazards to human health or the environment.
2. **Protect Personnel.** The EC shall take any reasonable measures to ensure the safety of personnel, such as activating the fire alarm, accounting for personnel, attending to injuries, or coordinating the evacuation of personnel, if necessary. If evacuation is indicated for other personnel, the IC must be informed.
3. **Contain or Mitigate the Hazards.** The EC shall take reasonable measures to ensure that fires, explosions, or releases do not occur, recur, or spread.

After an incident or emergency, the EC shall ensure that the CWL and equipment are cleaned, waste is properly managed and disposed of, the CWL is safe, and all information necessary for notifications and reports is provided to Facility personnel, as outlined in Section 6.6.

In the event that the EC is not on site or immediately available during an incident or emergency, an alternate EC shall be contacted. The names, addresses, and phone numbers of the primary and alternate ECs for the CWL are included in Table 6-5. The EC or alternate EC shall be on site or immediately available during sampling and analysis events.

6.2.2. Emergency Response Groups

The Facility ERO consists of two response groups that respond to an emergency situation: (1) a field response group led by an IC under the Incident Command System (ICS) and (2) an EOC cadre. The ICS also includes Facility Security, the KAFB Fire Department, and the Facility personnel with relevant technical skills. An IC shall be on site at the Facility at all times (24 hours per day, 7 days per week). Facility security personnel shall also be available at all times. The Permittees shall maintain their MOU with the 377th Air Base Wing of KAFB for fire protection and other support as referenced in Section 6.2.4 of this Permit Attachment. Facility technical personnel are available on site from 8:00 am to 4:30 pm Monday through Friday and are on call the rest of the time. Facility EOC staff shall include an Emergency Director and a staff of Sandia Corporation and Department of Energy (DOE) personnel who are responsible for management decisions and notifications to outside parties that are required during an emergency response. EOC staff personnel shall be available on site at the Facility from 8:00 am to 4:30 pm, Monday through Friday, except for holidays and Facility closure, and shall be on call at all times.

In the field, the IC shall maintain overall management and control of response operations during an emergency. The IC shall work in a unified command with the KAFB Fire Department and in concert with safety personnel, CWL personnel, and other emergency responders to develop and execute response plans, including on-site protective actions and recommendations for off-site protective actions. The ICS system shall be implemented at the time an emergency occurs and shall be expanded to control the emergency as needs arise, and shall remain in effect until the need for emergency management no longer exists.

6.2.3. Emergency Chain of Command

When the EC is notified of an incident, he shall first determine if the procedures for emergencies should be implemented. If an incident is an emergency, the EC shall manage the emergency response until the IC arrives at the CWL, then the EC will relinquish control to the IC. If possible, the EC shall maintain communication with the IC by telephone or radio before the IC arrives at the CWL. The EC shall remain at the CWL and assist in the emergency response as directed by the IC. The EC shall advise the IC, as needed, on CWL operations, CWL layout, characteristics of hazardous waste on site, location of records, radio and cellular communication systems, and other information as necessary to respond to the emergency.

The Facility IC is the liaison for communications with other emergency response organizations and functions, including medical and fire protection support. The EC can request both medical and fire protection services, if necessary, at the same time that he/she notifies the IC of an emergency.

6.2.4. Support Agreements and Coordination with Outside Agencies

The Facility shall maintain sufficient response resources to handle most emergencies arising from hazardous waste management activities as described in this Contingency Plan. These response resources include personnel, emergency equipment, medical facilities, and communications systems. The Facility has also established mutual aid agreements and memoranda of understanding with several off-site agencies and facilities for additional response capabilities for the Facility. These agencies and facilities include the establishments listed in Table 6-1.

TABLE 6-1
Agreements and Memoranda of Understanding for Emergency Response

Agency or Facility	Type of Service
The New Mexico Department of Homeland Security and Emergency Management	Mutual aid involving an actual or potential emergency, assistance in training and emergency response for local and tribal governments.
The 377th Air Base Wing, Kirtland Air Force Base	Various types of support, including fire protection, police services, communications, and utilities.
The City of Albuquerque	Mutual support and responsibilities during a potential or actual emergency requiring the combined resources of DOE and the City of Albuquerque.
Lovelace Medical Center	Mutual cooperation and assistance in providing timely and effective emergency medical services.
Presbyterian Health Care Services	Mutual cooperation and assistance in providing timely and effective emergency medical services.

6.3. EMERGENCY EQUIPMENT

A list of equipment available through the Facility emergency response system is provided in Table 6-2. A list of emergency equipment to be maintained at the Corrective Action Management Unit for use at the CWL is presented in Table 6-4.

TABLE 6-2
Chemical Waste Landfill Emergency Response Equipment Inventory

Item or Equipment	Description/Telephone
Emergency Vehicles (owned by the Facility unless noted)	
Emergency Response Vehicle	Mobile Command Post equipped with communications equipment, typically located at SNL EOC[a]. SNL Emergency Response System: Call 911 or (505) 844-0911
Ambulance	Typically located at SNL medical facility. SNL Emergency Response System: Call 911 or (505) 844-0911
Security Vehicles	Vans and trucks equipped with communications equipment and utilized for transportation of personnel and equipment, typically located throughout SNL. SNL Emergency Response System: Call 911 or (505) 844-0911
Fire Trucks (owned by KAFB Fire Department)	Fire-fighting vehicles outfitted with equipment for fighting fires, typically located at KAFB fire stations. SNL Emergency Response System: Call 911 or (505) 844-0911
Medical Supplies	
Stretchers/Stokes Litter	Equipment for movement of injured personnel. Stokes litter will immobilize personnel so they may be moved vertically. Typically located in ambulance or at SNL medical facility. SNL Emergency Response System: Call 911 or (505) 844-0911
Blankets	Normal blankets, typically located in ambulance or at SNL medical facility. SNL Emergency Response System: Call 911 or (505) 844-0911
Medical Kits	Emergency first-aid supplies, typically located in ambulance or at SNL medical facility. SNL Emergency Response System: Call 911 or (505) 844-0911
Safety Supplies	
Air Packs	Self-contained breathing apparatus for use by personnel entering hazardous atmospheres, typically located in ambulance or response vehicle. SNL Emergency Response System: Call 911 or (505) 844-0911
Monitoring Instruments	Typically located in ambulance or emergency response vehicle. SNL Emergency Response System: Call 911 or (505) 844-0911

[a]The Facility EOC is located at Technical Area I (TA-I).

EOC = Emergency Operations Center
KAFB = Kirtland Air Force Base
SNL = Sandia National Laboratories

6.4. CONTINGENCY PLAN IMPLEMENTATION

Facility personnel who become aware of an incident or emergency shall contact the EC immediately. If the incident is an emergency, personnel shall implement evacuation procedures identified in Section 6.4.2. Personnel shall also immediately notify the EC or alternate EC of the incident or emergency. The EC shall then assess the situation and determine whether the incident is an emergency.

If the EC determines that an emergency situation exists at the CWL, he shall immediately notify the EOC. The methods for contacting emergency response representatives are listed in Table 6-3.

TABLE 6-3
Facility Emergency Response System Notification

Method	Emergency Number
Telephone	911
Mobile Telephone	(505) 844-0911

Note: Any person is authorized to implement the evacuation procedures, notify the EC or alternate EC, and/or contact the emergency response representatives in the unlikely event that the EC or alternate EC cannot be contacted or respond in a timely manner.

6.4.1. Emergencies

In the event of an emergency, the EC, a designee, or CWL personnel shall immediately telephone the EOC (by calling 911 or 844-0911) or notify them in some other way. The EC shall relinquish authority to the IC upon arrival. The EC and the IC shall:

1. Determine the extent of the emergency;
2. Identify the character, source, amount, and extent of released materials by observation, records reviews, or chemical analysis;
3. Assess possible resulting hazards to human health or the environment, considering both direct and indirect effects;
4. Take all reasonable measures necessary to ensure fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the CWL, including collecting and containing released waste, and removing or isolating containers; and

Monitor for leaks, pressure buildup, gas generation, and ruptures in equipment.

TABLE 6-4
Emergency Equipment for the Chemical Waste Landfill,
Located at the Corrective Action Management Unit

Category	Description	Specific Location at CAMU
Spill Control Equipment	Spill control materials, including sorbent material, brooms and shovels	Leachate Storage Area Shed
Fire Extinguisher	Portable, Multi-Class	One near the Leachate Storage Area and Containment Cell, and one in CAMU Administration Trailer
Communications: (Internal/External)	Cellular Phone, 2-way portable radio, or equivalent	In the vicinity of the Leachate Storage Area or with operating personnel
Water Supply	Fire Hydrant Ground Hydrant	One outside the southeast entrance to the CAMU Two near the former Treatment Pad and two near the former Bulk Waste Staging Area
Environmental Safety and Health	Portable eyewash station	Leachate Storage Area Shed (during waste handling activities)
Evacuation	Voice command by on-site personnel or signaled by three blasts of a vehicle warning horn.	Designated Assembly Area (See Figure 13)

CAMU = Corrective Action Management Unit.

6.4.1.1. *Fire*

The following steps shall be implemented as needed in the event of an emergency involving an imminent or existing fire.

1. All non-essential personnel shall evacuate following the evacuation route described in this Permit Attachment or to an alternate assembly location as directed by the EC. All personnel shall evacuate as soon as possible if it becomes necessary to ensure their health and safety.
2. The EC (or Unit personnel) shall immediately notify the Facility ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and the Facility ERO shall also be notified by activation of an automatic fire alarm.
3. CWL personnel may consider taking action to put out a fire or minimize its spread ONLY if safe to do so. These actions may be taken only after the IC and KAFB Fire Department have been notified. Personnel must not jeopardize their own safety or the safety of other personnel.
4. If a fire is small and the fuel source is small, portable fire extinguishers may be used to put out the fire.
5. Fire extinguishers shall only be used by personnel trained in their use, and only for very small fires.
6. Flammable materials shall be removed from the area of a fire if safe to do so.
7. If the fire spreads or increases in intensity, all remaining personnel must evacuate.
8. The EC shall remain near the CWL, but at a safe distance, so he can advise personnel responding to a fire of the known hazards.
9. Upon arrival at a fire, the KAFB Fire Department officer-in-charge shall be in command of fire fighting. He shall accept and evaluate the advice of the CWL and emergency response personnel, but he retains the responsibility of selecting the fire-fighting methods and tactics.
10. The IC shall be in overall control of the Facility emergency response efforts until the emergency is terminated.
11. Hazardous wastes involved in a fire can be identified in the following ways: The location of the container may indicate the contents. If the location does not indicate its contents, the label number can be used to identify the waste. Records on the contents of each container can be accessed from outside the CWL. If the label has been burned and the container cannot be identified, the waste shall be treated as an unknown.
12. Residues of hazardous wastes may be collected and contained by stabilizing or neutralizing the spilled waste, as appropriate; pouring an absorbent over the spilled waste; and sweeping or shoveling the absorbed waste into drums or other appropriate containers.
13. If needed, affected surfaces shall be cleaned using cleaners appropriate for the chemicals and wastes involved.

14. If possible and safe, responding personnel shall take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible, personnel shall build dikes around storm drains.

6.4.1.2. *Explosion*

The following steps shall be implemented as needed in the event of an emergency involving an imminent or existing explosion.

1. Personnel shall immediately evacuate the area.
2. The EC (or CWL personnel) shall immediately notify the Facility ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and the ERO shall also be notified by activation of an automatic fire alarm.
3. The EC shall remain near the CWL, but at a safe distance, so that he/she can advise the response personnel of the known hazards involved and the degree and location of the explosion and associated fires.
4. Upon arrival at the site, the KAFB Fire Department officer-in-charge shall be in command of fire fighting. He/she will accept and evaluate the advice of the CWL personnel and emergency response organization members, but retains the responsibility of selecting the fire-fighting methods and tactics.
5. The IC shall be in overall control of Facility emergency response efforts until the emergency is terminated.
6. Residues of hazardous wastes may be collected and contained by stabilizing or neutralizing the spilled waste, as appropriate; pouring an absorbent over the spilled waste; and sweeping or shoveling the absorbed waste into drums or other appropriate containers. If needed, affected surfaces shall be cleaned using cleaners appropriate for the chemicals and wastes involved.
7. If possible, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers, such as building dikes around storm drains.
8. The EC shall secure the CWL once it has been determined to be safe by the IC or a safety officer.

6.4.1.3. *Uncontrolled Release*

The following steps shall be implemented as needed in the event of an incident or emergency involving an imminent or existing release of hazardous waste and/or radioactive mixed waste or constituents:

1. Evacuate the immediate area.
2. If it is an emergency, the EC (or CWL personnel) shall immediately notify the ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and ERO shall also be notified by activation of an automatic fire alarm.

3. Take actions to minimize, contain, and clean up the release only if safe to do so.
4. Review Facility records (e.g., waste inventory database) to determine the identity and chemical nature of the released material.
5. Wear appropriate personal protective equipment to clean up the spill or release.
6. If possible, secure the source of the release.
7. If necessary and possible, build a dike to contain runoff.
8. Take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers and if possible, build dikes around the storm drains.
9. Released wastes shall be collected and contained by stabilizing or neutralizing the spilled waste, as appropriate; pouring an absorbent over the spilled waste; and sweeping or shoveling the absorbed waste into drums or other appropriate containers.
10. No waste that may be incompatible with the released material shall be managed at the CWL until the cleanup procedures are completed.
11. After collection of a released waste, soil at the affected site shall be sampled and analyzed. If contamination is found to exist, contaminated soil shall be collected, contained (if appropriate), and removed from the site for disposal at a permitted disposal facility. Depending on the specific conditions, however, the Facility may choose to implement an alternative decontamination method such as surface cleaning or in-situ neutralization or stabilization. Any such alternative shall be approved by the Department prior to implementation.

6.4.2. Evacuation

During an emergency that threatens the health or safety of CWL personnel, the following steps shall be taken as needed to facilitate safe coordinated evacuation:

1. Stop work.
2. If safe, close containers and shut down equipment or otherwise place it in a safe mode.
3. Alert personnel in the affected area by announcing the evacuation by voice command, “Evacuate the Area.”
4. Activate the available evacuation signal consistent with the internal communications and alarm systems.
5. Notify the Facility ERO by activating a manual pull alarm or by dialing the EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and the ERO shall also be notified by activation of an automatic fire alarm.
6. Check to see whether there is evidence that the designated evacuation route is not safe.
7. If there is no evidence of danger or obstacles, exit the CWL according to the evacuation route.
8. If there is evidence of danger or obstacles, exit the CWL by any safe route available.
9. If safe, check for other personnel in other areas of the CWL.

10. Proceed to the designated assembly area for roll call to be taken by the EC or designee.
11. If the EC and CWL personnel are assembling at an alternate location, proceed to that location.
12. Inform the EC or designee about any other people still believed to be inside the CWL.
13. Do not re-enter the CWL until the IC or EC determines that is safe.

The evacuation route to be used during an emergency is shown in Figure 2 of Attachment 1 of this Permit.

6.4.3. Coordination with Off-Site Parties and Emergency Notification

The Facility EOC shall notify DOE of all emergencies at the Facility. The Permittees shall notify State and Local agencies if State or Local response resources are needed, if human health or the environment is threatened outside the Facility, or if areas outside the SNL Facility may require protective action. The Facility will verbally inform the City of Albuquerque and Isleta Pueblo as soon as possible, in the unlikely event that residents of Albuquerque or Isleta Pueblo could be affected. The notification shall include available information about the nature and location of the emergency, the waste and materials involved, and the recommended protective actions. The most likely protective actions are expected to include evacuation or sheltering indoors with doors and windows closed and ventilation systems shut off.

In the event of emergency involving injuries that require medical services from one of the hospitals listed in Table 6-1, the Permittees shall provide all available information about the incident and the wastes and materials involved to the responders as soon as possible.

The Permittees shall also notify the National Response Center (1-800-424-8802) if human health or the environment is threatened outside the Facility. The notification shall include the following.

1. Name and telephone number of the responsible official
2. Facility name and address
3. Time and nature of emergency
4. Type and quantities of wastes and materials involved to the extent known
5. Personnel injuries, and
6. Potential hazards to human health, or the environment, outside the Facility.

Further, the Permittees shall also provide this information to the Department in accordance with regulatory requirements, including verbal notification via the 24-hour emergency reporting number (1-505-827-9329) or other emergency notification number designated by the Department.

6.5. POST-EMERGENCY ACTIONS

Immediately after an emergency, the EC and the IC shall:

1. Continue to monitor for leaks, pressure buildup, gas generation, and ruptures in valves, pipes, or other equipment;
2. Provide for properly treating, storing, or disposing of recovered waste, contaminated soil or other media, or any other material or waste;

3. Ensure that no waste that may be incompatible with released material or waste is managed at the CWL until cleanup procedures are completed; and
4. Ensure that all equipment used in responding to the emergency is cleaned and fit for its intended use before resuming operations at the CWL.

Before resuming operations after an emergency, the Permittees shall notify the Department that incompatible waste will not be managed until cleanup procedures are complete and equipment listed in this Contingency Plan is cleaned and fit for use.

6.6. EMERGENCY RESPONSE RECORDS AND REPORTS

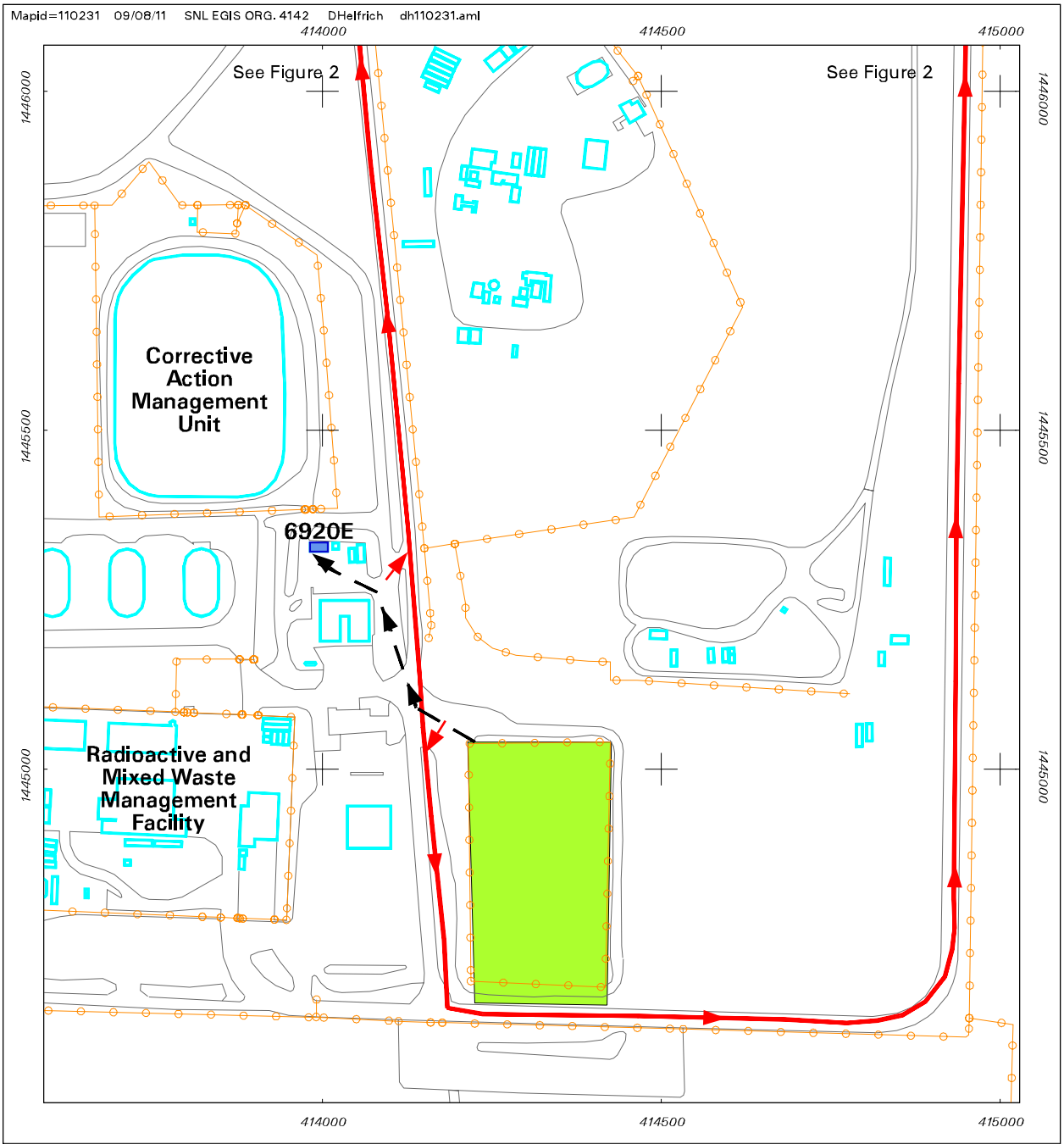
The time, date, and details of an incident or emergency involving implementation of this Contingency Plan shall be noted in the Operating Record. Within fifteen (15) calendar days following the incident or emergency, a written report shall be submitted to the Department identifying:

1. Name, address, and telephone number of the responsible official;
2. Name, address, and telephone number of the Facility;
3. Date, time, and type of emergency or incident (e.g., fire, explosion, release);
4. Name and quantity of wastes and material(s) involved;
5. Extent of injuries (if any);
6. Assessment of actual or potential hazards to human health or the environment, where applicable; and
7. Estimated quantity and disposition of recovered material and wastes that resulted from the incident or emergency.

TABLE 6-5
Emergency Coordinator List for the Chemical Waste Landfill

Emergency Coordinators[a]	Home Telephone	Office Telephone	Cellular or Pager
Primary: Donald P. Schofield P.O. Box 5800 Albuquerque, NM 87185	268-6888	844-4088	259-7098(Cell) 951-6153 (Pager)
1st Alternate: Robert Ziock P.O. Box 5800 Albuquerque, NM 87185	255-4714	845-0845	238-3668 (Cell) 951-6160 (Pager)
2nd Alternate: Danielle Nieto P.O. Box 5800 Albuquerque, NM 87185	239-3989	845-7706	239-3989 (Cell) 951-6537 (Pager)

[a]At least one emergency coordinator must be at the CWL or CAMU unit or on call.



Legend

- Building / Structure
- Assembly Point, Bldg. 6920E
- Fence
- Paved and unpaved Road
- Route from Site to the Assembly Point at Building 6920E
- CWL Emergency Evacuation Route
- Chemical Waste Landfill

Figure 13
Chemical Waste Landfill
Post-Closure Care
Evacuation Route

0 120 240
Scale In Feet

0 28.8 57.6
Scale In Meters

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

ENCLOSURE C
SUMMARY OF CHANGES FOR SITE-WIDE CONTINGENCY PLAN
COMPREHENSIVE PART B PERMIT REQUEST, APPENDIX E

Item No.	Location	Current Language	Revised Language	Explanation for Change
1	Appendix E throughout	Hazardous Waste Management Facility or HWMF	Hazardous Waste Handling Facility or HWHF	Revise unit name in response to request from the New Mexico Environment Department that Unit name be different from the descriptive term for units addressed in the Application.
2	Appendix E Page SW-E-2 Table E-1	Hazardous Waste Management Facility Operating hours M-F 8:00 am - 4:30 pm	Hazardous Waste Management Facility Operating hours M-Th 8:00 am - 4:30 pm F: 7:00 am 3:30 pm	Revise operating hours to reflect current hours as specified in current contingency plan (Permit Attachment E, Permit NM5890110518-1)
3	Appendix E Page SW-E-5 Section E.3.2	The ICS also includes Sandia/DOE Security, the KAFB Fire Department, and Sandia/DOE personnel with relevant technical skills. An IC is on site at SNL/NM at all times (24 hours per day, 7 days per week). Sandia/DOE security and the KAFB Fire Department personnel are also available at all times. Sandia/DOE technical personnel are available on site at SNL/NM from 8:00 am – 4:30 pm Monday through Friday and are on call the rest of the time.	The ICS also includes resources as needed: Sandia/DOE Security, the KAFB Fire Department, and Sandia/DOE personnel with relevant technical skills. An IC is on site at SNL/NM at all times (24 hours per day, 7 days per week). Sandia/DOE security and the KAFB Fire Department personnel are also available at all times. Sandia/DOE technical personnel are typically available on site at SNL/NM from 8:00 am – 4:30 pm Monday through Friday and are on call the rest of the time.	Revise description of emergency response resources for greater accuracy over the term of the permit: not all resources are needed at all times.
4	Appendix E Page SW-E-6 Table E-2	The University of New Mexico Medical Center: Mutual cooperation and assistance in providing timely and effective emergency medical services	*NONE*	Delete hospital from list as there is no longer an agreement for mutual cooperation and assistance. Two other hospitals remain on the list.

ENCLOSURE C
SUMMARY OF CHANGES FOR SITE-WIDE CONTINGENCY PLAN
COMPREHENSIVE PART B PERMIT REQUEST, APPENDIX E

Item No.	Location	Current Language	Revised Language	Explanation for Change
5	Appendix E Page SW-E-9 Section E.5.1.1	3. ONLY if safe to do so, Unit personnel may consider taking action to put out the fire or minimize its spread. These actions may be taken only after the SNL/NM IC and KAFB Fire Department have been notified. Personnel must not jeopardize their own safety or the safety of other personnel.	3. ONLY if safe to do so and consistent with Unit operations, Unit personnel may consider taking action to put out the fire or minimize its spread. These actions may be taken only after the SNL/NM IC and KAFB Fire Department have been notified. Personnel must not jeopardize their own safety or the safety of other personnel.	Add clarification for Unit personnel considering actions to take in response to a fire.
6	Appendix E Page SW-E-10 Section E.5.1.1	11. If possible and safe to do so, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible, personnel will build dikes around storm drains.	11. If possible and safe to do so, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible and necessary, personnel will build dikes around storm drains.	Add clarification for Unit personnel considering actions to take in response to a fire.
7	Appendix E Page SW-E-11 Section E.5.1.3	8. Take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible, build dikes around storm drains. 9. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers. 10. No waste that may be incompatible with the released material will be treated, stored, or disposed of until cleanup procedures are complete.	8. Take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible and necessary, build dikes around storm drains. 9. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers. 10. No waste that may be incompatible with the released material will be treated, stored, or disposed of in the vicinity of the release location until cleanup procedures are complete.	Add clarification for Unit personnel considering actions to take in response to a uncontrolled release. Also clarify the criteria for managing waste before the cleanup is completed.

ENCLOSURE C
SUMMARY OF CHANGES FOR SITE-WIDE CONTINGENCY PLAN
COMPREHENSIVE PART B PERMIT REQUEST, APPENDIX E

Item No.	Location	Current Language	Revised Language	Explanation for Change
8	Appendix E Page SW-E-13 Section E.6	• Ensure that no waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed; and	• Ensure that no waste that may be incompatible with the released material is treated, stored, or disposed of <u>in the vicinity of the release location</u> until cleanup procedures are completed; and	Add clarification for the criteria for managing waste before the cleanup is completed.

Table E-1
RCRA – Regulated Waste Management Units Included in Contingency Plan

Name	Acronym	Location, size	Types of operations	Operating hours	Staff
Hazardous Waste ManagementHandling Facility	HWMFHWHF	South of TA-I, north of entrance to TA-II. Includes Buildings 958, 959. 1.35 acres	Storage, Repackaging	M-ThF 8:00 am - 4:30 pm F: 7:00 am 3:30 pm	Staffed during operating hours
Thermal Treatment Facility	TTF	Northern part of TA-III, south of Building 6715. 196 square feet	Treatment	M-F 7:00 am 5:00 pm	Staffed only during operations at Unit
Radioactive and Mixed Waste Management Facility	RMWMF	Southeast corner of TA-III. Includes Buildings 6920, 6921, 6925, and 6926. 3.11 acres	Storage, Treatment, Repackaging	M-Th 7:00 am – 5:30 pm	Staffed during operating hours
Auxiliary Hot Cell Facility	AHCF	TA-V, Building 6597. 5578 square feet	Storage, Treatment, Repackaging	M-F 8:00 am – 4:30 pm	Staffed during operating hours
Manzano Storage Bunkers	MSB	In Manzano Area on KAFB. 0.4 acres occupied by 5 bunkers (approximately 1600 to 2400 square feet in each bunker)	Storage	M-Th 7:00 am – 5:30 pm	Staffed only during operations at Unit
Corrective Action Management Unit	CAMU	Southeast corner of TA-III. Includes containment cell located due north of RMWMF.	Post-closure monitoring of containment cell.		Staffed only during monitoring operations at Unit.
Chemical Waste Landfill	CWL	Southeast corner of TA-III. Includes landfill located due east of RMWMF.	Landfill undergoing closure.		Staffed only during closure and monitoring operations at Unit.

E.3.2 Emergency Response Groups

The SNL/NM ERO consists of two response groups that respond to an emergency situation: (1) a field response group led by an IC under the Incident Command System (ICS) and (2) an EOC cadre. The ICS also includes resources as needed: Sandia/DOE Security, the KAFB Fire Department, and Sandia/DOE personnel with relevant technical skills. An IC is on site at SNL/NM at all times (24 hours per day, 7 days per week). Sandia/DOE security and the KAFB Fire Department personnel are also available at all times. Sandia/DOE technical personnel are typically available on site at SNL/NM from 8:00 am – 4:30 pm Monday through Friday and are on call the rest of the time. The SNL/NM EOC staff includes an Emergency Director and a staff of Sandia and DOE personnel who are responsible for the management decisions and notifications to outside parties that are required during an emergency response (Section E.5.3). EOC staff personnel are available on site at SNL/NM from 8:00 am–4:30 pm, Monday through Friday, and are on call the rest of the time.

In the field, the IC maintains overall management and control of response operations at the emergency site. The IC works in a unified command with the KAFB Fire Department and in concert with safety personnel, Unit-specific personnel (e.g., EC), and other emergency responders to develop and execute response plans, including on-site protective actions and recommendations for off-site protective actions. The ICS system is implemented at the time an emergency occurs, is expanded to control the emergency as needs arise, and remains in effect until the need for emergency management no longer exists.

E.3.3 Emergency Chain of Command

When the EC is notified of an incident, he must first determine if procedures for emergencies (Section E.5) should be implemented. The EC manages the emergency response (Section E.3.1) until the IC arrives at the Unit and relinquishes control to the arriving IC. If possible, the EC maintains communication with the IC by telephone or radio before the IC arrives at the Unit. The EC remains at the Unit and assists in emergency response as directed by the IC. The EC advises the IC, as needed, on Unit operations, Unit layout, characteristics of RCRA-regulated waste on site, location of records, radio and cellular communication systems, and other information as necessary to respond to the emergency.

The SNL/NM IC is the liaison for communications with other emergency response organizations and functions, including medical and fire protection support. The EC can request both medical and fire protection services, if necessary, at the same time that he/she notifies the IC of the emergency.

E.3.4 Support Agreements and Coordination with Outside Agencies [20 NMAC 4.1.500/40 CFR 264.37]

Sandia/DOE maintain sufficient response resources to handle most emergencies arising from RCRA-regulated waste management activities as described in this contingency plan. These response resources include personnel, emergency equipment, medical facilities, and communications systems. DOE also has established mutual aid agreements and memoranda of understanding with several off-site agencies and facilities for additional response capabilities for SNL/NM. These agencies and facilities include:

Table E-2
Agreements and Memoranda of Understanding for Emergency Response

Agency or Facility	Type of Service
New Mexico Department of Public Safety	Mutual aid involving an actual or potential emergency, assistance in training and emergency response for local and tribal governments.
377th Air Base Wing, Kirtland Air Force Base	Various types of support, including fire protection, police services, communications, and utilities.
U.S. Forest Service	Cooperative fire fighting arrangement between the USFS and KAFB for wildland fires.
City of Albuquerque	Mutual support and responsibilities during a potential or actual emergency requiring the combined resources of DOE and the City of Albuquerque.
~~University of New Mexico Medical Center~~	~~Mutual cooperation and assistance in providing timely and effective emergency medical services.~~
~~St. Joseph Medical Center~~	~~Mutual cooperation and assistance in providing timely and effective emergency medical services.~~
Lovelace Medical Center	Mutual cooperation and assistance in providing timely and effective emergency medical services.
Presbyterian Health Care Services	Mutual cooperation and assistance in providing timely and effective emergency medical services.

E.4 EMERGENCY EQUIPMENT [20 NMAC 4.1.500/40 CFR 264.32, 264.33, 264.34, and 264.52(e)]

A list of equipment available through the SNL/NM emergency response system is provided in Table E-3. Lists of emergency equipment available for use at each Unit are presented in each Unit-specific module.

E.5 CONTINGENCY PLAN IMPLEMENTATION [20 NMAC 4.1.500/40 CFR 264.56]

Unit personnel who become aware of an incident contact the EC immediately. If the incident is an emergency, personnel implement evacuation procedures identified in Section E.5.2 Personnel also immediately notify the Unit-specific EC or alternate EC of the emergency condition. The EC will then assess the situation and determine the scale of the incident.

If the EC determines that an emergency situation exists at the Unit, he will immediately notify the SNL/NM EOC and activate this Contingency Plan. The methods for contacting emergency response representatives are listed in Table E-4.

2. The EC (or Unit personnel) must immediately notify the Sandia/DOE ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the SNL/NM EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and Sandia/DOE ERO will also be notified by activation of an automatic fire alarm.

3. ONLY if safe to do so and consistent with Unit operations, Unit personnel may consider taking action to put out the fire or minimize its spread. These actions may be taken only after the SNL/NM IC and KAFB Fire Department have been notified. Personnel must not jeopardize their own safety or the safety of other personnel.

   - If the fire is small and the fuel source is small, portable fire extinguishers may be used to put out the fire.
   - Fire extinguishers may only be used by personnel trained in their use and in this Contingency Plan, and only for very small fires.
   - Flammable materials should be removed from the area of fire if safe to do so.
   - Only appropriate fire extinguishers and/or fire extinguishing agents are to be used for water-reactive waste (e.g., Met-L-X, Lith-X, or equivalent).

4. If the fire spreads or increases in intensity, all remaining personnel must evacuate (see Step 1).

5. The EC should remain near the site, but at a safe distance, so he can advise the personnel responding to the fire of the known hazards.

6. Upon arrival at a fire, the KAFB Fire Department officer-in-charge will be in command of fire fighting. He will accept and evaluate the advice of Sandia/DOE Unit and emergency response personnel, but he retains the responsibility to select the fire-fighting methods and tactics.

7. The IC will be in overall control of Sandia/DOE emergency response efforts until the emergency is terminated.

8. RCRA-regulated wastes involved in a fire can be identified in the following ways: The location of the container may indicate the contents. If the location does not indicate its contents, the label number can be used to identify the material. Records on the contents of each container can be accessed from outside the Unit or in the Unit office. If the label has been burned and the container cannot be identified, the material will be treated as an unknown and analyzed according to methods in the Waste Analysis Plan (Appendix B to the General Part B.)

9. Residues of RCRA-regulated wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

10. If needed, affected surfaces will be cleaned using cleaners appropriate to the chemicals.

11. If possible and safe to do so, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible and necessary, personnel will build dikes around storm drains.

12. Any fire-fighting waters collected in the stormwater catchment and retention ponds at the HWMFHWHF and RMWMF or the floor trenches at the AHCF will be analyzed to determine an appropriate disposal method.

E.5.1.2 Explosion

The following steps will be implemented as needed in the event of an emergency involving an imminent or existing explosion.

1. Unit personnel will immediately evacuate the area (Section E.5.2).

2. The EC (or Unit personnel) must immediately notify the Sandia/DOE ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the SNL/NM EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and Sandia/DOE ERO will also be notified by activation of an automatic fire alarm.

3. The EC will remain near the site, but at a safe distance, so he can advise the response personnel of the known hazards involved and the degree and location of the explosion and associated fires.

4. Upon arrival at the site, the KAFB fire department officer-in-charge will be in command of fire fighting. He will accept and evaluate the advice of Sandia/DOE personnel and emergency response organization members, but he retains the responsibility to select the fire-fighting methods and tactics.

5. The IC will be in overall control of Sandia/DOE emergency response efforts until the emergency is terminated.

6. Residues of RCRA-regulated wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

7. If needed, affected surfaces will be cleaned using cleaners appropriate to the chemicals.

8. If possible, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible, personnel will build dikes around storm drains.

9. Any fire-fighting waters collected in the stormwater catchment and retention ponds at the HWMFHWHF and RMWMF or the floor trenches at the AHCF will be analyzed to determine an appropriate disposal method.

10. The EC will secure all operational units (e.g., process equipment, ventilation equipment) that may be affected directly or indirectly by the explosion once the areas needed to be entered have been determined safe by the IC or a safety officer.

E.5.1.3 Uncontrolled Release

The following steps will be implemented as needed in the event of an emergency involving an imminent or existing release of RCRA-regulated waste or hazardous waste constituents.

1. Evacuate the immediate area (Section E.5.2).

2. The EC (or Unit personnel) must immediately notify the Sandia/DOE ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the SNL/NM EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and Sandia/DOE ERO will also be notified by activation of an automatic fire alarm.

3. Take actions to minimize, contain, and clean up the release only if safe to do so.

4. Review facility records (e.g., waste inventory database) to determine the identity and chemical nature of released material.

5. Don appropriate personal protective equipment for exposure to the material.

6. If possible, secure the source of the release.

7. If necessary and possible, build a dike to contain runoff.

8. Take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible and necessary, build dikes around storm drains.

9. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

10. No waste that may be incompatible with the released material will be treated, stored, or disposed of in the vicinity of the release location until cleanup procedures are complete.

11. After collection of a released material, the release site will be sampled and evaluated. If contamination is found to exist, contaminated materials may be collected, drummed (if appropriate), and removed from the site for disposal at a permitted disposal facility. Depending on the specific conditions, however, Sandia/DOE may choose to implement an alternative decontamination method such as surface cleaning or in situ

E.5.3 Coordination with Off-Site Parties and Emergency Notification [20 NMAC 4.1.500/40 CFR 264.56(a) and (b)]

The Sandia EOC notifies DOE of all emergencies at SNL/NM. Sandia/DOE will notify state and local agencies if state or local response resources are required (see Section E.3.4), if human health or the environment are threatened outside the SNL/NM facility, or if areas outside the SNL/NM facility may require protective action. Sandia/DOE will verbally notify the City of Albuquerque or Isleta Pueblo, respectively, as soon as possible in the unlikely event that residents of Albuquerque or Isleta Pueblo outside KAFB are or could be affected. The notification will include available information about the nature and location of the emergency, the materials involved, and the recommended protective actions. The most likely protective actions are expected to include evacuation or sheltering indoors with doors and windows closed and ventilation systems shut off.

In the event of an emergency involving injuries that require medical services from one of the hospitals listed in Table E-2, Sandia/DOE will provide all available information about the event and the materials involved to the responders as soon as possible.

Sandia/DOE will also notify the National Response Center (1-800-424-8802) if human health or the environment are threatened outside the facility. The notification will include the following:

- Name and telephone number
- Facility name and address
- Time and nature of emergency
- Type and quantities of materials involved to the extent known
- Personnel injuries, and
- Potential hazards to human health, or the environment, outside the facility.

Sandia/DOE will also provide this information to the NMED in accordance with regulatory requirements, including verbal notification (1-505-827-9329 or other emergency notification number designated by NMED).

E.6 POST-EMERGENCY ACTIONS [20 NMAC 4.1.500/40 CFR 264.56(f-i)]

Immediately after an emergency, the EC (and the IC, when present) will:

- Continue to monitor for leaks, pressure buildup, gas generation, and ruptures in valves, pipes, or other equipment if the Unit stops operations;

- Provide for properly treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material;

- Ensure that no waste that may be incompatible with the released material is treated, stored, or disposed of in the vicinity of the release location until cleanup procedures are completed; and

- Ensure that all equipment used in responding to the emergency that is listed in either this site-wide plan or the Unit-specific Contingency Plan is cleaned and fit for its intended use before resuming operations.

Table E-1
RCRA – Regulated Waste Management Units Included in Contingency Plan

Name	Acronym	Location, size	Types of operations	Operating hours	Staff
Hazardous Waste Handling Facility	HWHF	South of TA-I, north of entrance to TA-II. Includes Buildings 958, 959. 1.35 acres	Storage, Repackaging	M-Th 8:00 am - 4:30 pm F: 7:00 am 3:30 pm	Staffed during operating hours
Thermal Treatment Facility	TTF	Northern part of TA-III, south of Building 6715. 196 square feet	Treatment	M-F 7:00 am 5:00 pm	Staffed only during operations at Unit
Radioactive and Mixed Waste Management Facility	RMWMF	Southeast corner of TA-III. Includes Buildings 6920, 6921, 6925, and 6926. 3.11 acres	Storage, Treatment, Repackaging	M-Th 7:00 am – 5:30 pm	Staffed during operating hours
Auxiliary Hot Cell Facility	AHCF	TA-V, Building 6597. 5578 square feet	Storage, Treatment, Repackaging	M-F 8:00 am – 4:30 pm	Staffed during operating hours
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Corrective Action Management Unit	CAMU	Southeast corner of TA-III. Includes containment cell located due north of RMWMF.	Post-closure monitoring of containment cell.		Staffed only during monitoring operations at Unit.
Chemical Waste Landfill	CWL	Southeast corner of TA-III. Includes landfill located due east of RMWMF.	Landfill undergoing closure.		Staffed only during closure and monitoring operations at Unit.

E.3.2 Emergency Response Groups

The SNL/NM ERO consists of two response groups that respond to an emergency situation: (1) a field response group led by an IC under the Incident Command System (ICS) and (2) an EOC cadre. The ICS also includes resources as needed: Sandia/DOE Security, the KAFB Fire Department, and Sandia/DOE personnel with relevant technical skills. An IC is on site at SNL/NM at all times (24 hours per day, 7 days per week). Sandia/DOE security and the KAFB Fire Department personnel are also available at all times. Sandia/DOE technical personnel are typically available on site at SNL/NM from 8:00 am – 4:30 pm Monday through Friday and are on call the rest of the time. The SNL/NM EOC staff includes an Emergency Director and a staff of Sandia and DOE personnel who are responsible for the management decisions and notifications to outside parties that are required during an emergency response (Section E.5.3). EOC staff personnel are available on site at SNL/NM from 8:00 am–4:30 pm, Monday through Friday, and are on call the rest of the time.

In the field, the IC maintains overall management and control of response operations at the emergency site. The IC works in a unified command with the KAFB Fire Department and in concert with safety personnel, Unit-specific personnel (e.g., EC), and other emergency responders to develop and execute response plans, including on-site protective actions and recommendations for off-site protective actions. The ICS system is implemented at the time an emergency occurs, is expanded to control the emergency as needs arise, and remains in effect until the need for emergency management no longer exists.

E.3.3 Emergency Chain of Command

When the EC is notified of an incident, he must first determine if procedures for emergencies (Section E.5) should be implemented. The EC manages the emergency response (Section E.3.1) until the IC arrives at the Unit and relinquishes control to the arriving IC. If possible, the EC maintains communication with the IC by telephone or radio before the IC arrives at the Unit. The EC remains at the Unit and assists in emergency response as directed by the IC. The EC advises the IC, as needed, on Unit operations, Unit layout, characteristics of RCRA-regulated waste on site, location of records, radio and cellular communication systems, and other information as necessary to respond to the emergency.

The SNL/NM IC is the liaison for communications with other emergency response organizations and functions, including medical and fire protection support. The EC can request both medical and fire protection services, if necessary, at the same time that he/she notifies the IC of the emergency.

E.3.4 Support Agreements and Coordination with Outside Agencies [20 NMAC 4.1.500/40 CFR 264.37]

Sandia/DOE maintain sufficient response resources to handle most emergencies arising from RCRA-regulated waste management activities as described in this contingency plan. These response resources include personnel, emergency equipment, medical facilities, and communications systems. DOE also has established mutual aid agreements and memoranda of understanding with several off-site agencies and facilities for additional response capabilities for SNL/NM. These agencies and facilities include:

Table E-2
Agreements and Memoranda of Understanding for Emergency Response

Agency or Facility	Type of Service
New Mexico Department of Public Safety	Mutual aid involving an actual or potential emergency, assistance in training and emergency response for local and tribal governments.
377th Air Base Wing, Kirtland Air Force Base	Various types of support, including fire protection, police services, communications, and utilities.
U.S. Forest Service	Cooperative fire fighting arrangement between the USFS and KAFB for wildland fires.
City of Albuquerque	Mutual support and responsibilities during a potential or actual emergency requiring the combined resources of DOE and the City of Albuquerque.
Lovelace Medical Center	Mutual cooperation and assistance in providing timely and effective emergency medical services.
Presbyterian Health Care Services	Mutual cooperation and assistance in providing timely and effective emergency medical services.

E.4 EMERGENCY EQUIPMENT [20 NMAC 4.1.500/40 CFR 264.32, 264.33, 264.34, and 264.52(e)]

A list of equipment available through the SNL/NM emergency response system is provided in Table E-3. Lists of emergency equipment available for use at each Unit are presented in each Unit-specific module.

E.5 CONTINGENCY PLAN IMPLEMENTATION [20 NMAC 4.1.500/40 CFR 264.56]

Unit personnel who become aware of an incident contact the EC immediately. If the incident is an emergency, personnel implement evacuation procedures identified in Section E.5.2 Personnel also immediately notify the Unit-specific EC or alternate EC of the emergency condition. The EC will then assess the situation and determine the scale of the incident.

If the EC determines that an emergency situation exists at the Unit, he will immediately notify the SNL/NM EOC and activate this Contingency Plan. The methods for contacting emergency response representatives are listed in Table E-4.

2. The EC (or Unit personnel) must immediately notify the Sandia/DOE ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the SNL/NM EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and Sandia/DOE ERO will also be notified by activation of an automatic fire alarm.

3. ONLY if safe to do so and consistent with Unit operations, Unit personnel may consider taking action to put out the fire or minimize its spread. These actions may be taken only after the SNL/NM IC and KAFB Fire Department have been notified. Personnel must not jeopardize their own safety or the safety of other personnel.

    - If the fire is small and the fuel source is small, portable fire extinguishers may be used to put out the fire.

    - Fire extinguishers may only be used by personnel trained in their use and in this Contingency Plan, and only for very small fires.

    - Flammable materials should be removed from the area of fire if safe to do so.

    - Only appropriate fire extinguishers and/or fire extinguishing agents are to be used for water-reactive waste (e.g., Met-L-X, Lith-X, or equivalent).

4. If the fire spreads or increases in intensity, all remaining personnel must evacuate (see Step 1).

5. The EC should remain near the site, but at a safe distance, so he can advise the personnel responding to the fire of the known hazards.

6. Upon arrival at a fire, the KAFB Fire Department officer-in-charge will be in command of fire fighting. He will accept and evaluate the advice of Sandia/DOE Unit and emergency response personnel, but he retains the responsibility to select the fire-fighting methods and tactics.

7. The IC will be in overall control of Sandia/DOE emergency response efforts until the emergency is terminated.

8. RCRA-regulated wastes involved in a fire can be identified in the following ways: The location of the container may indicate the contents. If the location does not indicate its contents, the label number can be used to identify the material. Records on the contents of each container can be accessed from outside the Unit or in the Unit office. If the label has been burned and the container cannot be identified, the material will be treated as an unknown and analyzed according to methods in the Waste Analysis Plan (Appendix B to the General Part B.)

9. Residues of RCRA-regulated wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

10. If needed, affected surfaces will be cleaned using cleaners appropriate to the chemicals.

11. If possible and safe to do so, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible and necessary, personnel will build dikes around storm drains.

12. Any fire-fighting waters collected in the stormwater catchment and retention ponds at the HWHF and RMWMF or the floor trenches at the AHCF will be analyzed to determine an appropriate disposal method.

E.5.1.2 Explosion

The following steps will be implemented as needed in the event of an emergency involving an imminent or existing explosion.

1. Unit personnel will immediately evacuate the area (Section E.5.2).

2. The EC (or Unit personnel) must immediately notify the Sandia/DOE ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the SNL/NM EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and Sandia/DOE ERO will also be notified by activation of an automatic fire alarm.

3. The EC will remain near the site, but at a safe distance, so he can advise the response personnel of the known hazards involved and the degree and location of the explosion and associated fires.

4. Upon arrival at the site, the KAFB fire department officer-in-charge will be in command of fire fighting. He will accept and evaluate the advice of Sandia/DOE personnel and emergency response organization members, but he retains the responsibility to select the fire-fighting methods and tactics.

5. The IC will be in overall control of Sandia/DOE emergency response efforts until the emergency is terminated.

6. Residues of RCRA-regulated wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

7. If needed, affected surfaces will be cleaned using cleaners appropriate to the chemicals.

8. If possible, responding personnel will take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible, personnel will build dikes around storm drains.

9. Any fire-fighting waters collected in the stormwater catchment and retention ponds at the HWHF and RMWMF or the floor trenches at the AHCF will be analyzed to determine an appropriate disposal method.

10. The EC will secure all operational units (e.g., process equipment, ventilation equipment) that may be affected directly or indirectly by the explosion once the areas needed to be entered have been determined safe by the IC or a safety officer.

E.5.1.3 Uncontrolled Release

The following steps will be implemented as needed in the event of an emergency involving an imminent or existing release of RCRA-regulated waste or hazardous waste constituents.

1. Evacuate the immediate area (Section E.5.2).

2. The EC (or Unit personnel) must immediately notify the Sandia/DOE ERO and KAFB Fire Department by activating a manual pull alarm or by dialing the SNL/NM EOC at 911 or 844-0911. Medical response can also be requested at the same time. The KAFB Fire Department and Sandia/DOE ERO will also be notified by activation of an automatic fire alarm.

3. Take actions to minimize, contain, and clean up the release only if safe to do so.

4. Review facility records (e.g., waste inventory database) to determine the identity and chemical nature of released material.

5. Don appropriate personal protective equipment for exposure to the material.

6. If possible, secure the source of the release.

7. If necessary and possible, build a dike to contain runoff.

8. Take measures to contain potentially hazardous runoff and keep it away from storm drains and/or sewers. If possible and necessary, build dikes around storm drains.

9. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate; pouring an absorbent over the spilled material; and sweeping or shoveling the absorbed material into drums or other appropriate containers.

10. No waste that may be incompatible with the released material will be treated, stored, or disposed of in the vicinity of the release location until cleanup procedures are complete.

11. After collection of a released material, the release site will be sampled and evaluated. If contamination is found to exist, contaminated materials may be collected, drummed (if appropriate), and removed from the site for disposal at a permitted disposal facility. Depending on the specific conditions, however, Sandia/DOE may choose to implement an alternative decontamination method such as surface cleaning or in situ

E.5.3 Coordination with Off-Site Parties and Emergency Notification [20 NMAC 4.1.500/40 CFR 264.56(a) and (b)]

The Sandia EOC notifies DOE of all emergencies at SNL/NM. Sandia/DOE will notify state and local agencies if state or local response resources are required (see Section E.3.4), if human health or the environment are threatened outside the SNL/NM facility, or if areas outside the SNL/NM facility may require protective action. Sandia/DOE will verbally notify the City of Albuquerque or Isleta Pueblo, respectively, as soon as possible in the unlikely event that residents of Albuquerque or Isleta Pueblo outside KAFB are or could be affected. The notification will include available information about the nature and location of the emergency, the materials involved, and the recommended protective actions. The most likely protective actions are expected to include evacuation or sheltering indoors with doors and windows closed and ventilation systems shut off.

In the event of an emergency involving injuries that require medical services from one of the hospitals listed in Table E-2, Sandia/DOE will provide all available information about the event and the materials involved to the responders as soon as possible.

Sandia/DOE will also notify the National Response Center (1-800-424-8802) if human health or the environment are threatened outside the facility. The notification will include the following:

- Name and telephone number
- Facility name and address
- Time and nature of emergency
- Type and quantities of materials involved to the extent known
- Personnel injuries, and
- Potential hazards to human health, or the environment, outside the facility.

Sandia/DOE will also provide this information to the NMED in accordance with regulatory requirements, including verbal notification (1-505-827-9329 or other emergency notification number designated by NMED).

E.6 POST-EMERGENCY ACTIONS [20 NMAC 4.1.500/40 CFR 264.56(f-i)]

Immediately after an emergency, the EC (and the IC, when present) will:

- Continue to monitor for leaks, pressure buildup, gas generation, and ruptures in valves, pipes, or other equipment if the Unit stops operations;

- Provide for properly treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material;

- Ensure that no waste that may be incompatible with the released material is treated, stored, or disposed of in the vicinity of the release location until cleanup procedures are completed; and

- Ensure that all equipment used in responding to the emergency that is listed in either this site-wide plan or the Unit-specific Contingency Plan is cleaned and fit for its intended use before resuming operations.

ENCLOSURE D
SUMMARY OF CHANGES FOR HAZARDOUS WASTE HANDLING FACILITY
COMPREHENSIVE PART B PERMIT REQUEST, MODULE I

Item No.	Location	Current Language	Revised Language	Explanation for Change
1	Module I cover	Sandia National Laboratories/New Mexico Hazardous Waste Management Facility Part B Permit Renewal Request Module I Revision 6.0c November 2010	Sandia National Laboratories/New Mexico Hazardous Waste Handling Facility Part B Permit Renewal Request Module I Revision 6.0d September 2011	Revise date and Unit name. See Item 2 for explanation of Unit name change.
2	Module I throughout	Hazardous Waste Management Facility or HWMF	Hazardous Waste Handling Facility or HWHF	Revise unit name in response to request from the New Mexico Environment Department that Unit name be different from the descriptive term for units addressed in the Application.
3	Module I Table 4 Building 959	Fire Extinguishers Lith-X One in the general use area One in the office	Fire Extinguishers Lith-X or equivalent One in the general use area One in the office	Revise list of emergency equipment to include other dry chemical agents that are suitable for extinguishing Class D fires.

ENCLOSURE D
SUMMARY OF CHANGES FOR HAZARDOUS WASTE HANDLING FACILITY
COMPREHENSIVE PART B PERMIT REQUEST, MODULE I

Item No.	Location	Current Language	Revised Language	Explanation for Change
4	Module I Table 5	Table 5 Hazardous Waste Management Facility, Emergency Coordinator List November 15, 2010 Facility Emergency Coordinator Office Phone Home Phone Primary Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico (505) 284-3080 (office) (505) 697-2108 (cellular) (505) 9516332 (pager) (505) 697-2108 Second Alternate David Castillo Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico (505) 284-4192 (office) (505) 269-1705 (cellular) (505) 951-6340 (pager) (505) 269-1705 Third Alternate Chris Dean Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico (505) 284-8083(office) (505) 350-4982 (cellular) (505) 283-1942 (pager) (505) 268-8913	Table 5 Hazardous Waste Handling Facility, Emergency Coordinator List September 16, 2011 Facility Emergency Coordinator Office Phone Home Phone Primary David Castillo Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico (505) 284-4192 (office) (505) 269-1705 (cellular) (505) 951-6340 (pager) (505) 269-1705 Second Alternate Chris Dean Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico (505) 284-8083(office) (505) 350-4982 (cellular) (505) 283-1942 (pager) (505) 268-8913 Third Alternate Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico (505) 845-9997(office) (505) 250-2422 (cellular) (505) 951-6335 (pager) (505) 299-0793	Update emergency coordinator information to reflect current SNL staff responsibilities and contact information

Sandia National Laboratories/New Mexico Hazardous Waste Handling~~Management~~ Facility Part B Permit Renewal Request

Module I

Revision 6.0d~~c~~

~~November 2010~~September 2011

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

6.0 CONTINGENCY PLAN

Emergency response requirements for permitted units are specified in 20 NMAC 4.1.500/40 CFR 264, Subpart D [10-1-03], "Contingency Plan and Emergency Procedures," and in 20 NMAC 4.1.900/40 CFR 270.14(b)(7) [10-1-03]. The Sandia/DOE "Site-Wide Contingency Plan" is included as Appendix E of the General Part B. Supplemental HWMFHWHF-specific information is included in this section, in Figures 9 and 10, and in Tables 4 and 5 of this module. Current copies of the site-wide contingency plan and this supplemental information are maintained at the HWMFHWHF and at the SNL/NM Emergency Operations Center.

The HWMFHWHF is located at the curve of 14th and P Streets (approximately 1,000 feet (ft) north of the entrance to Technical Area II) at SNL/NM. The Unit is used to repackage and store RCRA-regulated wastes. The WMAs at the HWMFHWHF include Building 958, Building 959, and the two modular storage buildings. The HWMFHWHF WMAs are located within a single area surrounded by a fence. All of the wastes listed in the General Part A may be stored at the HWMFHWHF.

- Building 959 is an 1,800-square-foot precast concrete building with an eave height of 12 feet. Inside the building are eight waste holding cells, a repackaging area, a restroom, a general use area, an office area, and an area for packing materials. The floor is coated with an epoxy finish. Small containers of wastes (typically less than 55 gallons) are stored in this building. Containers of incompatible wastes are segregated into different holding cells. The containers and contents are repackaged into other containers for shipment to off-site facilities. Up to 7,590 gallons of waste may be stored in this building.

- Building 958 (west of Building 959) is a 3,520-square-foot precast concrete building with an eave height of 14 feet. The building includes eight separate and recessed waste storage compartments for segregation of waste groups according to compatibility. Containers of wastes are stored in this building. Up to 59,950 gallons of waste may be stored in this building.

- Buildings 958B and 958C are modular, relocatable, prefabricated safety storage structures used for the storage of reactive and ignitable wastes. Each structure is constructed of welded 10- and 12-gauge steel with supporting structural steel sections, and each has three doors. The 500-gallon containment reservoirs within each building, the walls, and the ceilings are coated with chemical-resistant epoxy. The reservoirs are lined with polypropylene, which is compatible with reactive wastes. The floors are epoxy-coated, fire-resistant plywood. Up to 5,000 gallons of waste may be stored in each building.

- Storage of reactive wastes, lithium batteries, gas cylinders and flammable solids is restricted to these two buildings except for temporary storage that may occur in Building 959 following acceptance of the waste at the HWMFHWHF.

Figure 9 presents the evacuation routes for the HWMFHWHF. Figure 10 presents emergency response and access information for the HWMFHWHF. Table 4 lists the emergency equipment typically available at the HWMFHWHF. Table 5 lists the emergency coordinators for the HWMFHWHF.

Current copies of the site-wide contingency plan (Appendix E of the General Part B) and this supplemental information are maintained at the HWMFHWHF and at the SNL/NM Emergency Operations Center.

Table 4
Hazardous Waste HandlingManagement Facility, Emergency Equipment and Locations

Building 958

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Fixed shower / eyewash	Near south entrance
	Recovery drums and containers	At south entrance
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	At south entrance
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the HWMFHWHF
	SCBA	At south entrance
	Miscellaneous personal protective equipment (protective suits, goggles and/or safety glasses, gloves)	At south entrance
Internal Communication and Alarm System	Voice command	
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	One each on the exterior and interior walls near north and south personnel doors
	Audible fire alarms	
External Communication System	Telephones – unlimited employee access	One on the interior walls near the north and south entrances
	Fire alarm pull stations (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	One each on the exterior and interior walls near north and south personnel doors
Fire Extinguishers	Portable (A-B-C)	One at both the north and south entrances
Fire Suppression	Automatic wet-pipe water sprinkler system, with heat-actuated sprinklers	Coverage throughout the building
	Water supplied by fire hydrants	One hydrant, location shown in Figure 10

Table 4 (Continued)
Hazardous Waste HandlingManagement Facility, Emergency Equipment and Locations

Building 959

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Fixed shower/eyewash	Near south entrance
	Recovery drums and containers	Near south entrance
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	Near south entrance
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the HWMFHWHF
	SCBA	Near south entrance
	Miscellaneous personal protective equipment (protective suits, goggles and/or safety glasses, gloves)	Near south entrance
	First aid kit	One in the bathroom
Internal Communication and Alarm System	Voice command	
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers).	One each on the exterior and interior walls near each personnel door
	Audible fire alarms	
External Communication System	Telephones – unlimited employee access	One in the office
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers).	One each on the exterior and interior walls near each personnel door
Fire Extinguishers	Portable (A-B-C)	One at both the north and south entrances
	Lith-X or equivalent	One in the general use area One in the office
Fire Suppression	Automatic wet-pipe water sprinkler system, heat-actuated sprinklers	Coverage throughout the building
	Water supplied by fire hydrants	One hydrant, location shown in Figure 10

Table 4 (Concluded)
Hazardous Waste HandlingManagement Facility, Emergency Equipment and Locations

Modular Storage Buildings (958B and 958C)

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Personal protective equipment Recovery drums and containers Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present) and spill cleanup items	Buildings 958 and 959, equipment storage at the HWMFHWHF
Internal Communication and Alarm System	Voice command	
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system).	Buildings 958 and 959
	Audible fire alarms	
External Communication System	Telephones – unlimited employee access	Buildings 958 and 959
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system)	Buildings 958 and 959
Fire Suppression	Ansul automatic dry chemical system	Coverage throughout the building

KAFB Kirtland Air Force Base.
SCBA Self-contained breathing apparatus.

Table 5
Hazardous Waste HandlingManagement Facility, Emergency Coordinator List

November 15, 2010September 26, 2011

Facility Emergency Coordinator		Office Phone	Home Phone
Primary	Jeff JarryDavid Castillo Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 284-3080(505) 284-4192 (office) (505) 697-2108(505) 269-1705 (cellular) (505) 951-6332(505) 951-6340 (pager)	(505) 697-2108 (505) 269-1705
First Alternate	Ken Tetreault Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 844-1346(office) (505) 270-4089 (cellular) (505) 283-1949 (pager)	(505) 822-6336
Second Alternate	David CastilloChris Dean Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 284-4192(505) 284-8083 (office) (505) 269-1705(505) 350-4982 (cellular) (505) 951-6340(505) 283-1942 (pager)	(505) 269-1705 (505) 268-8913
Third Alternate	Chris Dean Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 284-8083(505) 845-9997(office) (505) 350-4982(505) 250-2422 (cellular) (505) 283-1942 (505) 951-6335 (pager)	(505) 268-8913 (505) 299-0793

One or more of these personnel are routinely available during operating hours (8:00 am to 4:30 pm, Monday through Thursday, and 7:00 am to 3:30 pm Friday)

Sandia National Laboratories/New Mexico
Hazardous Waste Handling Facility
Part B Permit Renewal Request

Module I

Revision 6.0d

September 2011

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

6.0 CONTINGENCY PLAN

Emergency response requirements for permitted units are specified in 20 NMAC 4.1.500/40 CFR 264, Subpart D [10-1-03], "Contingency Plan and Emergency Procedures," and in 20 NMAC 4.1.900/40 CFR 270.14(b)(7) [10-1-03]. The Sandia/DOE "Site-Wide Contingency Plan" is included as Appendix E of the General Part B. Supplemental HWHF-specific information is included in this section, in Figures 9 and 10, and in Tables 4 and 5 of this module. Current copies of the site-wide contingency plan and this supplemental information are maintained at the HWHF and at the SNL/NM Emergency Operations Center.

The HWHF is located at the curve of 14th and P Streets (approximately 1,000 feet (ft) north of the entrance to Technical Area II) at SNL/NM. The Unit is used to repackage and store RCRA-regulated wastes. The WMAs at the HWHF include Building 958, Building 959, and the two modular storage buildings. The HWHF WMAs are located within a single area surrounded by a fence. All of the wastes listed in the General Part A may be stored at the HWHF.

- Building 959 is an 1,800-square-foot precast concrete building with an eave height of 12 feet. Inside the building are eight waste holding cells, a repackaging area, a restroom, a general use area, an office area, and an area for packing materials. The floor is coated with an epoxy finish. Small containers of wastes (typically less than 55 gallons) are stored in this building. Containers of incompatible wastes are segregated into different holding cells. The containers and contents are repackaged into other containers for shipment to off-site facilities. Up to 7,590 gallons of waste may be stored in this building.

- Building 958 (west of Building 959) is a 3,520-square-foot precast concrete building with an eave height of 14 feet. The building includes eight separate and recessed waste storage compartments for segregation of waste groups according to compatibility. Containers of wastes are stored in this building. Up to 59,950 gallons of waste may be stored in this building.

- Buildings 958B and 958C are modular, relocatable, prefabricated safety storage structures used for the storage of reactive and ignitable wastes. Each structure is constructed of welded 10- and 12-gauge steel with supporting structural steel sections, and each has three doors. The 500-gallon containment reservoirs within each building, the walls, and the ceilings are coated with chemical-resistant epoxy. The reservoirs are lined with polypropylene, which is compatible with reactive wastes. The floors are epoxy-coated, fire-resistant plywood. Up to 5,000 gallons of waste may be stored in each building.

- Storage of reactive wastes, lithium batteries, gas cylinders and flammable solids is restricted to these two buildings except for temporary storage that may occur in Building 959 following acceptance of the waste at the HWHF.

Figure 9 presents the evacuation routes for the HWHF. Figure 10 presents emergency response and access information for the HWHF. Table 4 lists the emergency equipment typically available at the HWHF. Table 5 lists the emergency coordinators for the HWHF.

Current copies of the site-wide contingency plan (Appendix E of the General Part B) and this supplemental information are maintained at the HWHF and at the SNL/NM Emergency Operations Center.

Table 4
Hazardous Waste Handling Facility, Emergency Equipment and Locations

Building 958

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Fixed shower / eyewash	Near south entrance
	Recovery drums and containers	At south entrance
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	At south entrance
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the HWHF
	SCBA	At south entrance
	Miscellaneous personal protective equipment (protective suits, goggles and/or safety glasses, gloves)	At south entrance
Internal Communication and Alarm System	Voice command	
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	One each on the exterior and interior walls near north and south personnel doors
	Audible fire alarms	
External Communication System	Telephones – unlimited employee access	One on the interior walls near the north and south entrances
	Fire alarm pull stations (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	One each on the exterior and interior walls near north and south personnel doors
Fire Extinguishers	Portable (A-B-C)	One at both the north and south entrances
Fire Suppression	Automatic wet-pipe water sprinkler system, with heat-actuated sprinklers	Coverage throughout the building
	Water supplied by fire hydrants	One hydrant, location shown in Figure 10

Table 4 (Continued)
Hazardous Waste Handling Facility, Emergency Equipment and Locations

Building 959

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Fixed shower/eyewash	Near south entrance
	Recovery drums and containers	Near south entrance
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	Near south entrance
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the HWHF
	SCBA	Near south entrance
	Miscellaneous personal protective equipment (protective suits, goggles and/or safety glasses, gloves)	Near south entrance
	First aid kit	One in the bathroom
Internal Communication and Alarm System	Voice command	
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers).	One each on the exterior and interior walls near each personnel door
	Audible fire alarms	
External Communication System	Telephones – unlimited employee access	One in the office
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers).	One each on the exterior and interior walls near each personnel door
Fire Extinguishers	Portable (A-B-C)	One at both the north and south entrances
	Lith-X or equivalent	One in the general use area One in the office
Fire Suppression	Automatic wet-pipe water sprinkler system, heat-actuated sprinklers	Coverage throughout the building
	Water supplied by fire hydrants	One hydrant, location shown in Figure 10

Table 4 (Concluded)
Hazardous Waste Handling Facility, Emergency Equipment and Locations

Modular Storage Buildings (958B and 958C)

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Personal protective equipment Recovery drums and containers Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present) and spill cleanup items	Buildings 958 and 959, equipment storage at the HWHF
Internal Communication and Alarm System	Voice command	
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system).	Buildings 958 and 959
	Audible fire alarms	
External Communication System	Telephones – unlimited employee access	Buildings 958 and 959
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system)	Buildings 958 and 959
Fire Suppression	Ansul automatic dry chemical system	Coverage throughout the building

KAFB Kirtland Air Force Base.
SCBA Self-contained breathing apparatus.

Table 5
Hazardous Waste Handling Facility, Emergency Coordinator List

September 26, 2011

Facility Emergency Coordinator		Office Phone	Home Phone
Primary	David Castillo Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 284-4192 (office) (505) 269-1705 (cellular) (505) 951-6340 (pager)	(505) 269-1705
First Alternate	Ken Tetreault Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 844-1346(office) (505) 270-4089 (cellular) (505) 283-1949 (pager)	(505) 822-6336
Second Alternate	Chris Dean Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 284-8083 (office) (505) 350-4982 (cellular) (505) 283-1942 (pager)	(505) 268-8913
Third Alternate	Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque, New Mexico	(505) 845-9997(office) (505) 250-2422 (cellular) (505) 951-6335 (pager)	(505) 299-0793

One or more of these personnel are routinely available during operating hours (8:00 am to 4:30 pm, Monday through Thursday, and 7:00 am to 3:30 pm Friday)

ENCLOSURE E
SUMMARY OF CHANGES FOR RADIOACTIVE AND MIXED WASTE MANAGEMENT FACILITY
COMPREHENSIVE PART B PERMIT REQUEST, MODULE III

Item No.	Location	Current Language	Revised Language	Explanation for Change
1	Module III cover	Sandia National Laboratories/New Mexico Radioactive and Mixed Waste Management Facility Part B Permit Application Module III Revision 6.0d March 2010	Sandia National Laboratories/New Mexico Radioactive and Mixed Waste Management Facility Part B Permit Application Module III Revision 6.0e September 2011	Revise date.
2	Module III Table 3 Building 6920	Internal Communication and Alarm System Voice command, Portable 2-way radio Operating personnel typically carry radios.	Internal Communication and Alarm System Voice command, Portable 2-way radio or equivalent, as needed Operating personnel	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.
3	Module III Table 3 Building 6921	Internal Communication and Alarm System Voice command, Portable 2-way radio Operating personnel typically carry radios.	Internal Communication and Alarm System Voice command, Portable 2-way radio or equivalent, as needed Operating personnel	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.
4	Module III Table 3 Building 6925	Internal Communication and Alarm System Voice command, Portable 2-way radio Operating personnel typically carry radios.	Internal Communication and Alarm System Voice command, Portable 2-way radio or equivalent, as needed Operating personnel	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.

ENCLOSURE E
SUMMARY OF CHANGES FOR RADIOACTIVE AND MIXED WASTE MANAGEMENT FACILITY
COMPREHENSIVE PART B PERMIT REQUEST, MODULE III

Item No.	Location	Current Language	Revised Language	Explanation for Change
5	Module III Table 3 Building 6926	Internal Communication and Alarm System Voice command, Portable 2-way radio Operating personnel typically carry radios.	Internal Communication and Alarm System Voice command, Portable 2-way radio or equivalent, as needed Operating personnel	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.
6	Module III Table 3 Modular Storage Buildings	Internal Communication and Alarm System Voice command, Portable 2-way radio Operating personnel typically carry radios.	Internal Communication and Alarm System Voice command, Portable 2-way radio or equivalent, as needed Operating personnel	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.

ENCLOSURE E
SUMMARY OF CHANGES FOR RADIOACTIVE AND MIXED WASTE MANAGEMENT FACILITY
COMPREHENSIVE PART B PERMIT REQUEST, MODULE III

Item No.	Location	Current Language	Revised Language	Explanation for Change
7	Module III Table 4	Table 4 Radioactive and Mixed Waste Management Facility, Emergency Coordinator List March 8, 2010 First Alternate Michael Spoerner Sandia National Laboratories P.O. Box 5800 Albuquerque NM 87185 (505) 844-2813 (office) (505) 951-6324 (pager) (505) 828-3441 Second Alternate-Phil Zelle Third Alternate Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque NM 87185 (505) 845-9997 (office) (505) 951-6335 (pager) (505) 299-0793 Fourth Alternate Jesse Farr	Table 4 Radioactive and Mixed Waste Management Facility, Emergency Coordinator List September 15 2011 First Alternate-Phil Zelle Second Alternate Jesse Farr Third Alternate Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque NM 87185 (505) 844-3080 (office) (505) 951-6332 (pager) (505) 697-2108	Update emergency coordinator information to reflect current SNL staff responsibilities and contact information

Sandia National Laboratories/New Mexico
Radioactive and Mixed Waste
Management Facility
Part B Permit Application

Module III

Revision 6.0~~c~~d

September 2011~~March 2010~~

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

Table 3
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6920

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Eyewash Stations/ Showers	• On north wall in south bay • Near office in north bay
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	In hallway between north and south bays
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	In hallway between north and south bays
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel ~~typically carry radios~~
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door in southeast corner of south bay • In southwest corner of southwest airlock • By personnel door in west mechanical room • By personnel door on north wall of north bay • By personnel door in entryway west of office
	Audible fire alarms	Located throughout the building

Table 3 (Continued)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6921

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Eyewash Station/Shower	On north wall of assay area
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	By north wall of assay area
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	By north wall of assay area
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel ~~typically carry radios~~
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in electrical/mechanical room • In central hallway outside restrooms • In northwest corner of assay area • By east personnel door in southeast counting room • By east personnel door in middle east office area
	Audible fire alarms	Located throughout the building

Table 3 (Continued)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6925

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Portable Eyewash	By personnel door near center of south wall
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	By personnel door near center of south wall
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	By personnel door near center of south wall
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel ~~typically carry radios~~
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door in southwest corner of building • By personnel door near center of south wall
	Audible fire alarms	Located on east and west wall
External Communication System	Telephone	By personnel door in southwest corner of building
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door in southwest corner of building • By personnel door near center of south wall
Fire Extinguishers	Portable (A-B-C)	• By personnel door in northeast corner of building • By personnel door in southwest corner of building
	Portable (A-B-C)(D)	By personnel door near center of south wall
Fire Suppression	Automatic dry-pipe sprinkler system with heat-actuated sprinklers	Sprinklers located throughout building
	Water supplied by fire hydrants	Three hydrants, locations shown in Figure 12

Table 3 (Continued)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6926

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Eyewash Station/Shower	In southeast area of building
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	In southeast area of building
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	In southeast area of building
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel ~~typically carry radios~~
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door on west wall of building • By personnel door on south wall of building
	Audible fire alarms	Located on east wall and west wall
External Communication System	Telephone	In southeast area of building
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door on west wall of building • By personnel door on south wall of building
Fire Extinguishers	Portable (A-B-C)	• By personnel door in northeast corner of building • By personnel door on west wall of building
	Portable (A-B-C)(D)	By personnel door on south wall of building
Fire Suppression	Automatic dry-pipe sprinkler system with heat-actuated sprinklers	Sprinklers located throughout building
	Water supplied by fire hydrants	Three hydrants, locations shown in Figure 12

Table 3 (Concluded)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Modular Storage Buildings

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	Buildings 6920 and 6926
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	Buildings 6920 and 6926
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel ~~typically carry radios~~
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system)	Buildings 6920, 6921, 6925, and 6926
	Audible fire alarms	Buildings 6920, 6921, 6925, and 6926
External Communication System	Telephones	Buildings 6920 and 6926
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system)	Buildings 6920, 6921, 6925, and 6926
Fire Suppression	Automatic dry chemical system	Coverage throughout the building

PPE personal protective equipment
KAFB Kirtland Air Force Base

Table 4
Radioactive and Mixed Waste Management Facility, Emergency Coordinator List

March 8, 2010September 15, 2011

Facility Emergency Coordinator		Office Phone	Home Phone
Primary	Leroy Duran Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-1488 (office) (505) 951-6297 (pager)	(505) 980-4401
First Alternate	Michael Spoerner Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 844-2813 (office) (505) 951-6324 (pager)	(505) 828-3441
FirstSecond Alternate	Phil Zelle Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 844-2486 (office) (505) 951-6248 (pager)	(505) 615-7445
Third Alternate	Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 845-9997 (office) (505) 951-6335 (pager)	(505) 299-0793
SecondFourth	Jesse Farr Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3041 (office) (505) 951-6336 (pager)	(505) 379-8913
Third Alternate	Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3080 (office) (505) 951-6332 (pager)	(505) 697-2108

One or more of these personnel are routinely available during operating hours (7:00 am to 5:30 pm, Monday through Thursday).

Sandia National Laboratories/New Mexico
Radioactive and Mixed Waste
Management Facility
Part B Permit Application

Module III

Revision 6.0d

September 2011

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

Table 3
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6920

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Eyewash Stations/ Showers	• On north wall in south bay • Near office in north bay
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	In hallway between north and south bays
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	In hallway between north and south bays
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door in southeast corner of south bay • In southwest corner of southwest airlock • By personnel door in west mechanical room • By personnel door on north wall of north bay • By personnel door in entryway west of office
	Audible fire alarms	Located throughout the building

Table 3 (Continued)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6921

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Eyewash Station/Shower	On north wall of assay area
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	By north wall of assay area
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	By north wall of assay area
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in electrical/mechanical room • In central hallway outside restrooms • In northwest corner of assay area • By east personnel door in southeast counting room • By east personnel door in middle east office area
	Audible fire alarms	Located throughout the building

Table 3 (Continued)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Building 6925

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Portable Eyewash	By personnel door near center of south wall
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	By personnel door near center of south wall
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	By personnel door near center of south wall
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door in southwest corner of building • By personnel door near center of south wall
	Audible fire alarms	Located on east and west wall
External Communication System	Telephone	By personnel door in southwest corner of building
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door in southwest corner of building • By personnel door near center of south wall
Fire Extinguishers	Portable (A-B-C)	• By personnel door in northeast corner of building • By personnel door in southwest corner of building
	Portable (A-B-C)(D)	By personnel door near center of south wall
Fire Suppression	Automatic dry-pipe sprinkler system with heat-actuated sprinklers	Sprinklers located throughout building
	Water supplied by fire hydrants	Three hydrants, locations shown in Figure 12

Table 3 (Continued)
Radioactive and Mixed Waste Management Facility,
Emergency Equipment and Locations

Building 6926

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Eyewash Station/Shower	In southeast area of building
	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	In southeast area of building
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	In southeast area of building
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door on west wall of building • By personnel door on south wall of building
	Audible fire alarms	Located on east wall and west wall
External Communication System	Telephone	In southeast area of building
	Fire alarm pull station (pulling handle sends signal to KAFB fire department, does not actuate sprinklers)	• By personnel door in northeast corner of building • By personnel door on west wall of building • By personnel door on south wall of building
Fire Extinguishers	Portable (A-B-C)	• By personnel door in northeast corner of building • By personnel door on west wall of building
	Portable (A-B-C)(D)	By personnel door on south wall of building
Fire Suppression	Automatic dry-pipe sprinkler system with heat-actuated sprinklers	Sprinklers located throughout building
	Water supplied by fire hydrants	Three hydrants, locations shown in Figure 12

Table 3 (Concluded)
Radioactive and Mixed Waste Management Facility, Emergency Equipment and Locations

Modular Storage Buildings

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Absorbent (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	Buildings 6920 and 6926
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
	Miscellaneous PPE (protective suits, goggles and/or safety glasses, chemical-resistant gloves)	Buildings 6920 and 6926
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system)	Buildings 6920, 6921, 6925, and 6926
	Audible fire alarms	Buildings 6920, 6921, 6925, and 6926
External Communication System	Telephones	Buildings 6920 and 6926
	Fire alarm pull boxes (pulling handle sends signal to KAFB fire department, does not actuate system)	Buildings 6920, 6921, 6925, and 6926
Fire Suppression	Automatic dry chemical system	Coverage throughout the building

PPE personal protective equipment
KAFB Kirtland Air Force Base

Table 4
Radioactive and Mixed Waste Management Facility, Emergency Coordinator List

September 15, 2011

Facility Emergency Coordinator		Office Phone	Home Phone
Primary	Leroy Duran Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-1488 (office) (505) 951-6297 (pager)	(505) 980-4401
FirstAlternate	Phil Zelle Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 844-2486 (office) (505) 951-6248 (pager)	(505) 615-7445
SecondAlternate	Jesse Farr Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3041 (office) (505) 951-6336 (pager)	(505) 379-8913
Third Alternate	Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3080 (office) (505) 951-6332 (pager)	(505) 697-2108

One or more of these personnel are routinely available during operating hours (7:00 am to 5:30 pm, Monday through Thursday).

ENCLOSURE F
SUMMARY OF CHANGES FOR MANZANO STORAGE BUNKERS
COMPREHENSIVE PART B PERMIT REQUEST, MODULE VI

Item No.	Location	Current Language	Revised Language	Explanation for Change
1	Module VI cover	Sandia National Laboratories/New Mexico Manzano Storage Bunkers Part B Permit Application Module VI Revision 6.0d March 2010	Sandia National Laboratories/New Mexico Manzano Storage Bunkers Part B Permit Application Module VI Revision 6.0e September 2011	Revise date.
2	Module VI Table 2	Internal Communication and Alarm System Voice command, Portable 2-way radio Operating personnel typically carry radios.	Internal Communication and Alarm System Voice command, Portable 2-way radio or equivalent, as needed Operating personnel	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.
3	Module VI Table 2	External Communication System Mobile Telephone or Portable Radio Taken to bunkers by personnel	External Communication System Mobile Telephone or Portable Radio or equivalent Taken to bunkers by personnel as needed	Revise list of emergency equipment to include current equivalent equipment. Clarify that radios are carried by operating personnel as needed.

ENCLOSURE F
SUMMARY OF CHANGES FOR MANZANO STORAGE BUNKERS
COMPREHENSIVE PART B PERMIT REQUEST, MODULE VI

Item No.	Location	Current Language	Revised Language	Explanation for Change
4	Module VI Table 3	Table 3 Manzano Storage Bunkers, Emergency Coordinator List March 8, 2010 First Alternate Michael Spoerner Sandia National Laboratories P.O. Box 5800 Albuquerque NM 87185 (505) 844-2813 (office) (505) 951-6324 (pager) (505) 828-3441 Second Alternate-Phil Zelle Third Alternate Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque NM 87185 (505) 845-9997 (office) (505) 951-6335 (pager) (505) 299-0793 Fourth Alternate Jesse Farr	Table 3 Manzano Storage Bunkers, Emergency Coordinator List September 15, 2011 First Alternate-Phil Zelle Second Alternate Jesse Farr Third Alternate Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque NM 87185 (505) 844-3080 (office) (505) 951-6332 (pager) (505) 697-2108	Update emergency coordinator information to reflect current SNL staff responsibilities and contact information

Sandia National Laboratories/New Mexico
Manzano Storage Bunkers
Part B Permit Application

Module VI

Revision 6.0ed

~~March 2010~~September 2011

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

Table 2
Manzano Storage Bunkers,
Emergency Equipment and Locations

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Portable Eyewash	By inner door inside each bunker
	Personal protective equipment (chemical-resistant gloves and safety glasses)	By inner door inside each bunker
	Absorbents (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	By inner door inside each bunker
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel ~~typically carry radios.~~
	Smoke Alarms	• Smoke detectors and alarms inside each bunker • Strobe light on front outside each bunker
External Communication System	Mobile Telephone or Portable Radio or equivalent	Taken to bunkers by personnel as needed
Fire Extinguishers	Portable (A-B-C)	By entrance door outside each bunker
Fire Suppression	Water to Extinguish Fires	KAFB tanker truck at the KAFB fire station in the Manzano administrative area

KAFB Kirtland Air Force Base

Table 3
Manzano Storage Bunkers,
Facility Emergency Coordinator List

-September 15, 2011March 8, 2010

Facility Emergency Coordinator		Office Phone	Home Phone
Primary	Leroy Duran Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-1488 (office) (505) 951-6297 (pager)	(505) 980-4401
First Alternate	Michael Spoerner Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 844-2813 (office) (505) 951-6324 (pager)	(505) 828-3441
FirstSecond Alternate	Phil Zelle Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 844-2486 (office) (505) 951-6248 (pager)	(505) 615-7445
Third Alternate	Mary Ann Krauss Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 845-9997 (office) (505) 951-6335 (pager)	(505) 299-0793
SecondFourth Alternate	Jesse Farr Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3041 (office) (505) 951-6336 (pager)	(505) 379-8913
Third Alternate	Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3080 (office) (505) 951-6332 (pager)	(505) 697-2108

One or more of the listed personnel are routinely available at the Radioactive and Mixed Waste Management Facility during normal work hours (7:00 am to 5:30 pm, Monday through Thursday) and can be contacted by radio or telephone during those hours.

Sandia National Laboratories/New Mexico
Manzano Storage Bunkers
Part B Permit Application

Module VI

Revision 6.0e

September 2011

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

Table 2
Manzano Storage Bunkers,
Emergency Equipment and Locations

Category	Description/Capabilities	Location
Spill Control and Decontamination Equipment	Portable Eyewash	By inner door inside each bunker
	Personal protective equipment (chemical-resistant gloves and safety glasses)	By inner door inside each bunker
	Absorbents (sufficient absorbent for 55 gallons of liquid when liquid wastes are present)	By inner door inside each bunker
	Spill cleanup items (mops, brooms, and/or shovels)	In equipment storage at the RMWMF
	Recovery drums and containers	In equipment storage at the RMWMF
Internal Communication and Alarm System	Voice command Portable 2-way radio or equivalent, as needed	Operating personnel
	Smoke Alarms	• Smoke detectors and alarms inside each bunker • Strobe light on front outside each bunker
External Communication System	Mobile Telephone or Portable Radio or equivalent	Taken to bunkers by personnel as needed
Fire Extinguishers	Portable (A-B-C)	By entrance door outside each bunker
Fire Suppression	Water to Extinguish Fires	KAFB tanker truck at the KAFB fire station in the Manzano administrative area

KAFB Kirtland Air Force Base

Table 3
Manzano Storage Bunkers,
Facility Emergency Coordinator List

September 15, 2011

Facility Emergency Coordinator		Office Phone	Home Phone
Primary	Leroy Duran Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-1488 (office) (505) 951-6297 (pager)	(505) 980-4401
First Alternate	Phil Zelle Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 844-2486 (office) (505) 951-6248 (pager)	(505) 615-7445
SecondAlternate	Jesse Farr Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3041 (office) (505) 951-6336 (pager)	(505) 379-8913
Third Alternate	Jeff Jarry Sandia National Laboratories P.O. Box 5800 Albuquerque, NM 87185	(505) 284-3080 (office) (505) 951-6332 (pager)	(505) 697-2108

One or more of the listed personnel are routinely available at the Radioactive and Mixed Waste Management Facility during normal work hours (7:00 am to 5:30 pm, Monday through Thursday) and can be contacted by radio or telephone during those hours.