



HAZARDOUS WASTE PERMITS

**Sandia National Laboratories
Albuquerque, New Mexico**

**Overview and Update
October 2012**

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Security Administration

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Process: Hazardous Waste Permits

STATE AND FEDERAL LAWS AND REGULATIONS

1. Owner and operator (DOE and Sandia) apply for permit for conducting hazardous and mixed waste management: treatment, storage, corrective action, post-closure care
2. Agency (New Mexico Environment Department [NMED]) develops and issues draft permit
3. Opportunity for public review, comment, and participation
4. Agency issues or denies final permit



Hazardous Waste Permit Application

- **Permit application has two parts:**
 - **Part A (form with basic information)**
 - **Part B (extensive discussion of waste management activities), includes Part A**
- **Submitted Part B application February 6, 2002**
- **Most recently revised May 4, 2012**
 - **Operations (storage, treatment) at 9 facilities**
 - **Post-closure care at 1 facility**
 - **Information about solid waste management units (SWMUs) and areas of concern (AOCs) requiring corrective action**



Hazardous Waste Part B Permit Application

**NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive E, Bldg. 1
Santa Fe NM 87505**

**Pam Allen (505) 476-6000
8:00 am – 5:00 pm Mon-Fri**

**UNM Zimmerman Library
Main campus (east of duck pond)
Albuquerque NM
(505) 277-9100**

**<http://elibrary.unm.edu/index.php>
for library hours and information**

**UNM Lobo Vault (online)
UNM Hosted Collections
Sandia National Labs/NM Technical
Reports**

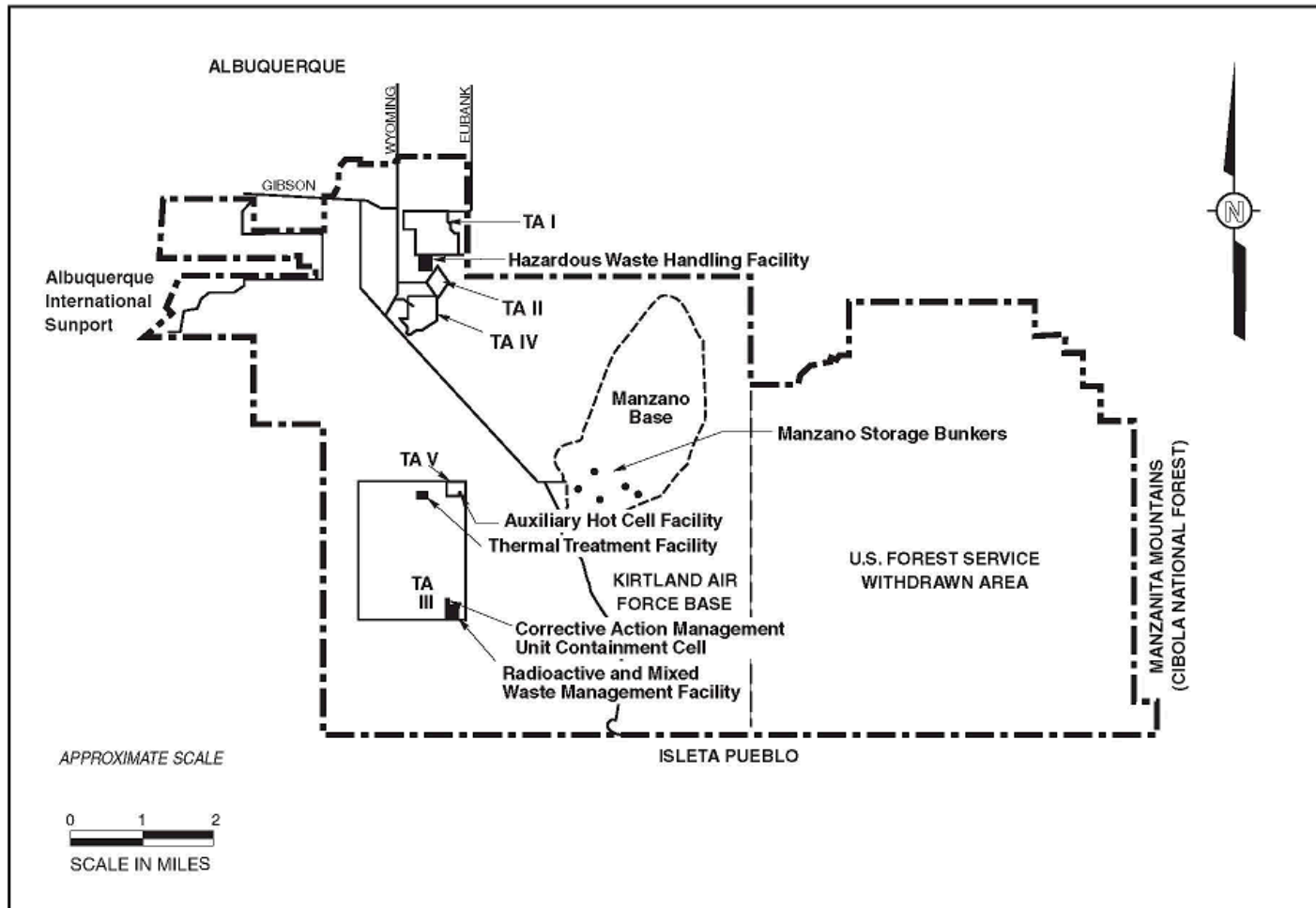
<http://repository.unm.edu/handle/1928/10963>



Hazardous and Mixed Waste Facilities in Part B Application

FACILITY	HAZARDOUS AND MIXED WASTES	OPERATIONS
Hazardous Waste Handling Facility	various	<ul style="list-style-type: none">• storage in containers• repackaging
Thermal Treatment Facility	specific explosive hazardous waste	<ul style="list-style-type: none">• treatment by open burning
Radioactive and Mixed Waste Management Facility	various	<ul style="list-style-type: none">• storage in containers,• treatment by various methods• repackaging
Auxiliary Hot Cell Facility	various	<ul style="list-style-type: none">• storage in containers,• treatment by various methods• repackaging
Manzano Storage Bunkers (set of five)	various	<ul style="list-style-type: none">• storage in containers
Corrective Action Management Unit	treated soil from Chemical Waste Landfill	<ul style="list-style-type: none">• post-closure care

Location of Hazardous and Mixed Waste Facilities at SNL



Hazardous Waste Handling Facility

Buildings 958 and 959



Waste storage bays in Building 959



Thermal Treatment Facility



View from roof of Building 6715

View of burn pan (lid down)
inside cage



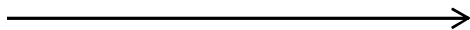
Radioactive and Mixed Waste Management Facility



East side of Building 6920

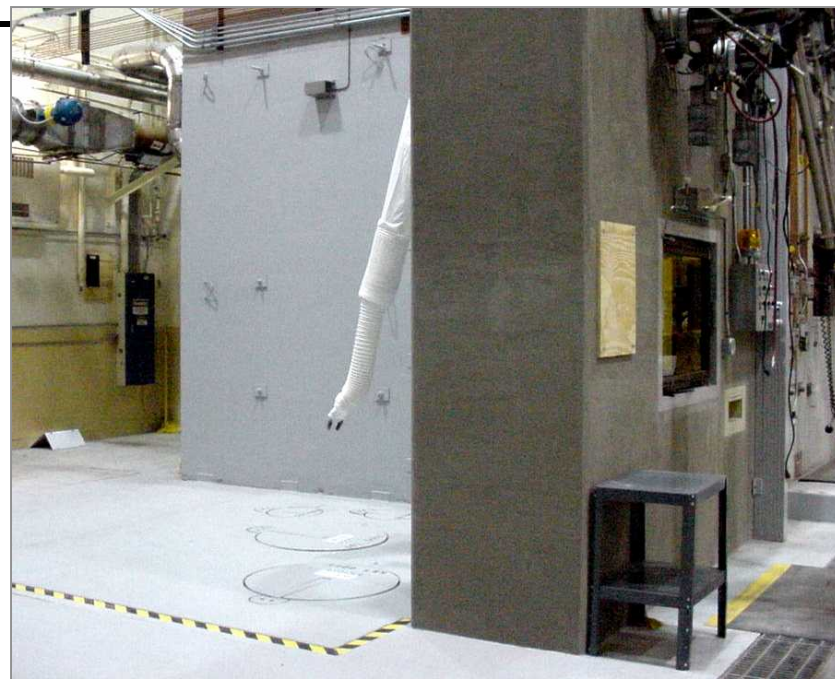
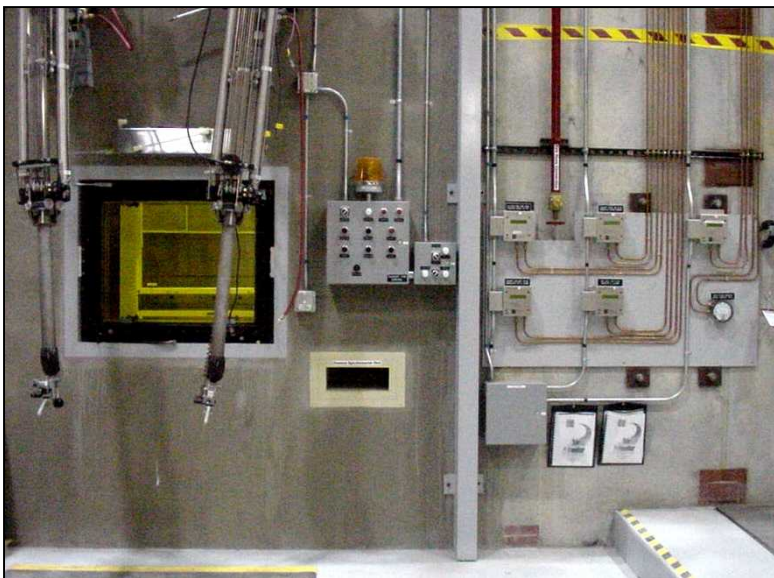


South bay in Building 6920



Auxiliary Hot Cell Facility

Building 6597, work area north of
hot cell →



←
Operator controls for work area
(left) and hot cell (right)

Manzano Storage Bunkers



**Front of Bunker 37045,
a Type D bunker**



**Front of Bunker 37118,
a Type C bunker**

Corrective Action Management Unit



South end of containment cell with
primary subliner monitoring system



East side of containment cell with:

- Vertical sensor array subsystem
- Chemical Waste Landfill and sanitary sewer line monitoring subsystem





Draft Hazardous Waste Permit

STATE AND FEDERAL LAWS AND REGULATIONS

- Hazardous and mixed waste management units: ongoing activities and post-closure care
- Corrective action at future SWMUs and AOCs
- Long-term monitoring and maintenance of SWMUs and AOCs as required (after corrective action is complete)



Draft Hazardous Waste Permit for SNL

Hazardous and Mixed Waste Management Units

- Hazardous Waste Handling Unit
- Thermal Treatment Unit
- Radioactive and Mixed Waste Management Unit
- Auxiliary Hot Cell Unit
- Manzano Storage Bunkers (5)
- Corrective Action Management Unit

Future SWMUs and AOCs Requiring Corrective Action

- **None.**

NOTE:

Existing SWMUs and AOCs are addressed under the Compliance Order on Consent or the Final Order (Mixed Waste Landfill).

SWMUs and AOCs Not Requiring Corrective Action

- SWMUs and AOCs with controls
- SWMUs and AOCs without controls



Draft Hazardous Waste Permit for SNL

**NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive E, Bldg. 1
Santa Fe NM 87505**

**Pam Allen (505) 476-6000
8:00 am – 5:00 pm Mon-Fri
Appointment needed**

**NMED – Hazardous Waste Bureau
District 1 Office
5500 San Antonio Ave NE
Albuquerque NM 87109**

**William Moats (505) 222-9551
8:00 am – 5:00 pm Mon-Fri
Appointment needed**

<http://www.nmenv.state.nm.us/HWB/snlperm.html>

- **Interested Person Letter and Public Notice**
- **Fact Sheet for the Draft SNL Permit**
- **Fact Sheet and Statement of Basis for the Corrective Action Complete Proposal**
- **Draft Permit**



Draft Hazardous Waste Permit for SNL

Deadline for comments:

November 16, 2012, 5:00 pm

Submit comments to:

John E. Kieling, Chief
Hazardous Waste Bureau, NMED
2905 Rodeo Park Dr. E, Bldg. 1
Santa Fe NM 87505-6303
(505) 476-6000
e-mail: john.kieling@state.nm.us
Ref: SNL Draft Permit