

# HAZARDOUS WASTE PERMITS

---

## Sandia National Laboratories Albuquerque, New Mexico

### Overview and Update October 2012

Anita Reiser  
Sandia National Laboratories  
(505) 284-4048

David Rast  
U.S. Dept. of Energy/ National Nuclear  
Security Administration  
(505) 845-5349



# 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>**

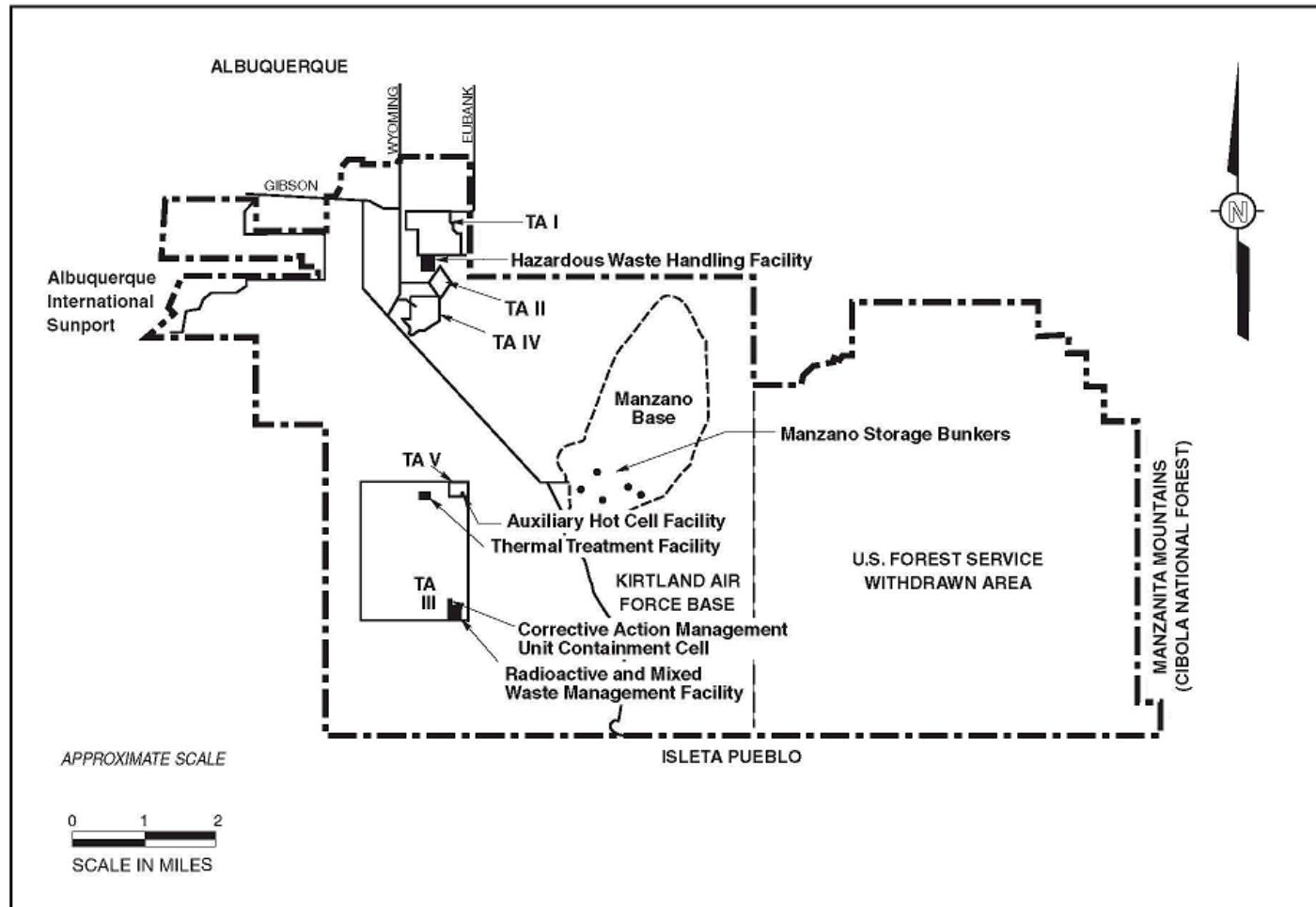


# Hazardous and Mixed Waste Facilities in Part B Application

---

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

# Location of Hazardous and Mixed Waste Facilities at SNL





# Hazardous Waste Handling Facility

---

Buildings 958 and 959



Waste storage bays in  
Building 959



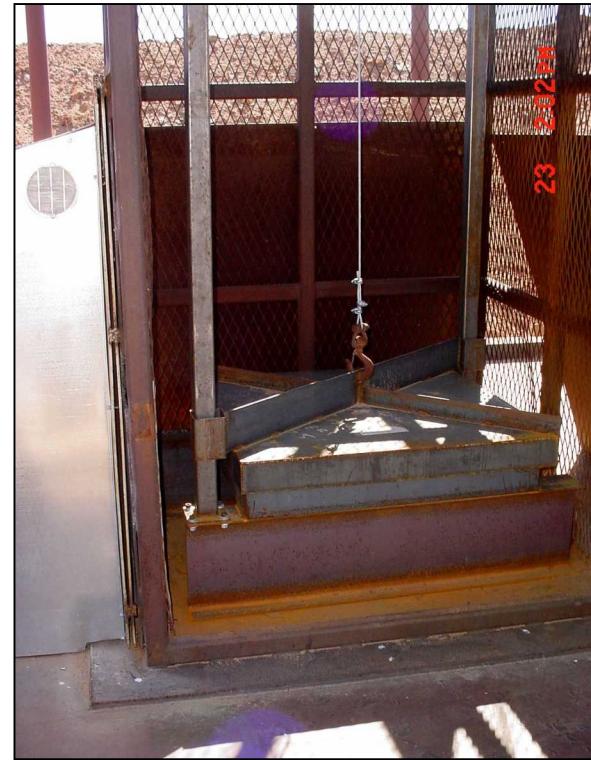


# Thermal Treatment Facility



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

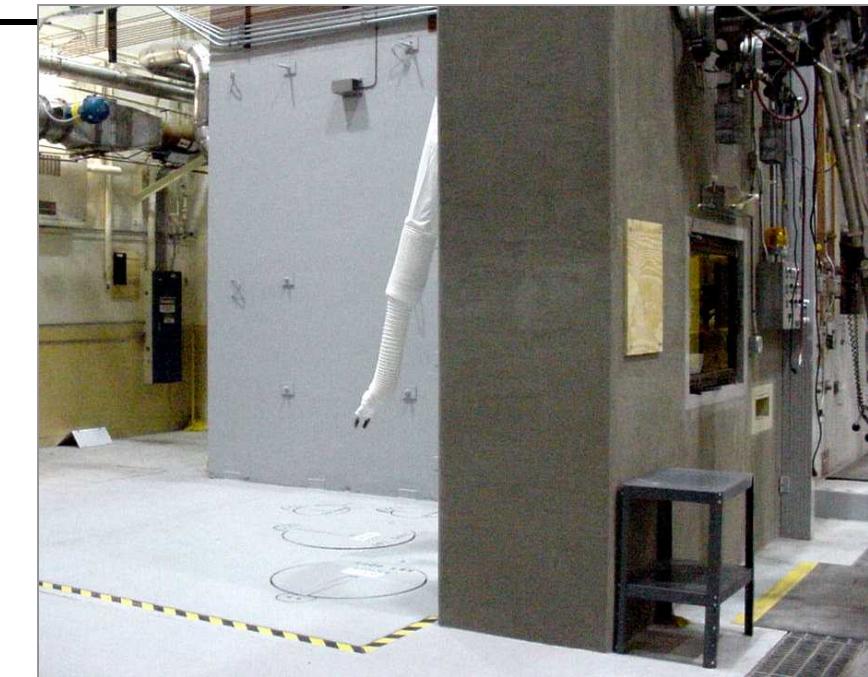


Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.

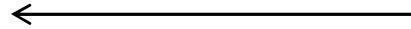


# Auxiliary Hot Cell Facility

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](mailto:john.kieling@state.nm.us)  
Ref: SNL Draft Permit