

Waste Isolation Pilot Plant Hazardous Waste Facility Permit

Radioactive and Hazardous Materials Committee

October 8, 2013

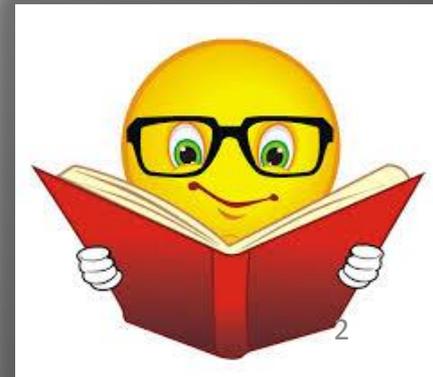
New Mexico Environment Department



WIPP Hazardous-Waste Permit

<http://www.nmenv.state.nm.us/wipp/>

- Nearly 1,500 pages that include: Characterization, Audits, Monitoring
- Part 1 through Part 8
 - Part 1 – General Permit Conditions
 - Part 2 – General Facility Conditions
 - Part 3 – Container Storage
 - Part 4 – Geologic Repository
 - Part 5 – Ground-Water Detection Monitoring
 - Part 6 – Closure Requirements
 - Part 7 – Post-Closure Care Plan
 - Part 8 – Corrective Action
- 38 Attachments (A –O)



How is the Permit Modified?



- **Class 1 modification**
 - Administrative and informational changes
 - Does not need prior approval from NMED
- **Class 1¹ modification**
 - Other minor changes that may need prior NMED approval
- **Class 2 modification**
 - More complex changes
 - Public meeting and 60 day public comment period
 - NMED may approve, approve with changes or elevate to Class 3
- **Class 3 modification**
 - Major changes
 - Facility held public meeting, 60 day public comment period
 - NMED public comment period
 - Public hearing, testimony
 - Hearing officer issues recommendation
 - NMED Secretary makes final decision
- **Agency Initiated Modification**

Recent Permit Modifications



- Shielded Containers – Allows some RH waste to be managed as CH waste provided surface dose rate meets CH definition. Approved November 1, 2012
- WAP Revision – Eliminated systematic and mandatory head space gas and solid sampling. NMED retained authority to test when needed and appropriate. Approved with changes March 13, 2013.

Current Permit Modifications

- Class 2 Modification of Excluded Waste Prohibition (elevated to Class 3 modification)
- Class 3 - 3 Items (Modification to Panel Closure, Repository Reconfiguration, Revise VOC Target Analyte List and Monitoring)
- Class 1 – Revise Table and Panel Figures to Include Panel 7, Update Descriptions Related to Type B Packages, Update TRUPACT-II and HalfPACT Figures



Current Class 3 Modification – Revise Excluded Waste Prohibition

- March 20, 2013: Pre-submittal meeting in Albuquerque
- April 9, 2013: Received modification request
- April 11 - June 10, 2013: 60 day public comment period (received approximately 930 comments)
- May 14 and 16: Public meetings in Santa Fe and Carlsbad
- July 2, 2013: Secretary elevated to Class 3 modification on significant public concern

Current Class 3 Modification - Panel Closure, Repository Reconfiguration, Volatile Organic Compounds

- Dec. 18, 2012: Pre-submittal meeting in Albuquerque
- March 20, 2013: Received modification
- March 22 - May 20, 2013: 60 day public comment period
- April 12 and 14, 2013: Public meetings in Santa Fe and Carlsbad
- July 29, 2012: Administrative Completeness Determination Issued
- September 20, 2013: Technical Incompleteness Letter Issued

Recent Audit Report Approvals

- Oak Ridge National Lab, July 8, 2013
- Hanford Site, July 15, 2013
- Idaho National Lab– Advanced Mixed Waste Treatment Project (AMWTP), September 10, 2013
- Savannah River Site, September 16, 2013
- Sandia National Lab, September 20, 2013



Upcoming Audits

- Savannah River Site/CCP November 13-15, 2013
- VOC/Hydrogen/Methane Monitoring Program at WIPP, November 5-7, 2013



Other Activities

- Annual Inspection – September 11 & 12, 2013
- Observation of Sodium Distillation Unit and other activities at Idaho National Labs – April 29 – May 1
- Observation of Shielded Container Loading at Argonne National Labs, July 2013
- July 2, 2013 - Notification of Toluene detected in WIPP detection monitoring well WQSP-5 and the intent to demonstrate that the Toluene above background that was detected is due to outside contamination.
- July 16, 2013 - NMED Inspection and Approval of New Panel 7

Shipments Received

As of September 3, 2013

Site	Shipments	Loaded Miles
Argonne National Laboratory	178	305,533
Bettis Atomic Power Laboratory	5	10,955
GE Vallecitos Nuclear Center	32	44,800
Idaho National Laboratory	5,689	7,916,304
Los Alamos National Laboratory	1,260	430,920
Lawrence Livermore National Laboratory	18	24,804
Nevada Test Site	48	57,312
Oak Ridge National Laboratory	131	175,933
Rocky Flats Environmental Technology Site	2,045	1,446,444
Hanford Site	572	1,034,176
Sandia National Laboratories	8	2,200
Savannah River Site	1,580	2,375,912
Total to WIPP	11,566	13,825,293

Waste Volumes in the Haz-Waste Disposal Units

	Waste Type	Final Volume (m ³)
Panel 1	CH TRU	10,496.65
Panel 2	CH TRU	17,997.67
Panel 3	CH TRU	17,092.06
Panel 4	CH TRU	14,257.54
	RH TRU	84.24
Panel 5	CH TRU	15,926.93
	RH TRU	153.37
Panel 6	CH TRU	12,406.21
	RH TRU	109.87

More information can be found in Table 4.1.1 of the Permit



- The New Mexico Environment Department will continue to ensure that WIPP is in compliance with the Hazardous Waste Facility Permit and all applicable hazardous waste regulations.

For more information

- NMED WIPP Permit Information Page
 - <http://www.nmenv.state.nm.us/wipp/>
- US DOE WIPP Information Page
 - <http://www.wipp.energy.gov/>
- US EPA WIPP Information Page
 - <http://www.epa.gov/radiation/wipp/>

Questions?

Communication within our agency,
with Permittees and with stakeholders is key!

Please call or email:

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