# 2008 ANNUAL MITIGATION REPORT FOR THE WASTE ISOLATION PILOT PLANT



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#### **ACRONYMS**

AMR Annual Mitigation Report

ASER Annual Site Environmental Report

BECR Biennial Environmental Compliance Report

CAM continuous air monitor CBFO Carlsbad Field Office

CFR Code of Federal Regulations
DOE U.S. Department of Energy
EIS Environmental Impact Statement
EMP Environmental Monitoring Plan
EMS Environmental Management System

EPA Environmental Protection Agency

FAS fixed air sampler

FEIS Final Environmental Impact Statement

HEPA high-efficiency particulate air
IART Incident/Accident Response Team
ISMS Integrated Safety Management System

ISO International Organization for Standardization

MAP Mitigation Action Plan

MERRTT Modular Emergency Response Radiological Transportation Training

MSHA Mine Safety and Health Administration NEPA National Environmental Policy Act

NESHAPS National Emission Standards for Hazardous Air Pollutants

NMED New Mexico Environment Department

OSHA Occupational Safety and Health Administration RCRA Resource Conservation and Recovery Act

ROD Record of Decision

SEIS Supplemental Environmental Impact Statement

STEP States and Tribal Education Program

TRANSCOM Transportation Tracking and Communication System

TRU transuranic

TRUPACT-II Transuranic Package Transporter Type B Shipping Container, Model II

VOC volatile organic compound
VPP Voluntary Protection Program
WIPP Waste Isolation Pilot Plant
WTS Washington TRU Solutions

#### INTRODUCTION

Guidance for the development of a Mitigation Action Plan (MAP) is contained in Department of Energy (DOE) Order 451.1B, *National Environmental Policy Act Compliance Program*, and 10 CFR 1021, *National Environmental Policy Act Implementing Procedures*. These documents specify that a MAP be prepared to mitigate environmental impacts resulting from the implementation of commitments made in the Record of Decision (ROD) for an Environmental Impact Statement (EIS). The Order further requires that an annual report be prepared to demonstrate the progress made in implementing the commitments and effectiveness of any mitigation activity until the activity has been completed. The Waste Isolation Pilot Plant (WIPP) MAP was prepared to address commitments made in the RODs for the *WIPP Final Environmental Impact Statement* (FEIS), and the *WIPP Final Supplemental Environmental Impact Statement*. This 2008 Annual Mitigation Report (AMR) addresses those WIPP-related mitigation activities undertaken from the time of submittal of the *1994 Annual Mitigation Report* in July 1994 through June 2008.

Each commitment from the RODs has been given an alphanumeric designation. The alphabetic component designates the source and/or subject area of the commitment and the numeric component designates the sequential order of the commitment.

The following are used to track commitments:

Symbol	Designation
FR	FEIS ROD
NC	NEPA compliance (SEIS-I ROD)
RC	Regulatory compliance (SEIS-I ROD)
TR	Transportation (SEIS-I ROD)
TP	Test phase (SEIS-I ROD)
ER	Emergency response (SEIS-I ROD)

**Note:** Commitments from the FEIS ROD are designated "FR." Commitments from the SEIS-I are divided among the five topical areas listed above.

#### THE 2008 ANNUAL MITIGATION REPORT

The number and category of each ROD commitment is presented in Table 1. As in previous mitigation reports, the 2008 AMR divides each of the commitments into four categories:

Category 1: active commitments with ongoing implementation activities

Category 2: commitments that have been fulfilled

Category 3: commitments that will not be implemented under the present site

configuration due to DOE policy changes (such as those related to the

cancellation of the WIPP Test Phase)

Category 4: commitments, or portions of commitments, that are being tracked as

environmental compliance or data collection commitments in other DOE

reports

Commitments or portions of commitments designated as Category 4 require the DOE to comply with applicable state and federal regulations. The status of compliance with these regulations is tracked in the compliance chapter of the current *WIPP Annual Site Environmental Report* (ASER), and in the *WIPP Biennial Environmental Compliance Report* (BECR).

The tracking number(s) for active mitigation commitments (or commitment portions), the relevant text from the ROD, and the status of the implementation of the commitment are provided in Table 2. The commitment numbers are identical to those presented in the original MAP.

Table 1. - Categories of Commitments made in the FEIS and SEIS-I RODs

COMMITMENT	CATEGORY	COMMITMENT	CATEGORY	COMMITMENT	CATEGORY
FR-1	2	FR-6h	2	RC-2b	2
FR-2	2	FR-6I	2	RC-2c	2
FR-3	2	FR-7	1	RC-2d	2
FR-4	3	FR-7a	1 & 4	RC-2e	2
FR-5	3	FR-7b	1 & 4	RC-2f	2
FR-6	1	FR-7c	4	RC-2g	4
FR-6a	1 & 4	FR-7d	2	RC-2h	4
FR-6b	2	FR-7e	4	RC-2I	4
FR-6c	2	FR-7f	1 & 4	RC-2j	1
FR-6c(1)	2	FR-8	1	RC-3	4
FR-6c(2)	2	NC-1	4	TR-1	2
FR-6c(3)	2	NC-1	4	TP-1	3
FR-6c(4)	2	NC-2	3	TP-2	3
FR-6d	1 & 4	RC-1	4	TP-3	3
FR-6e	2	RC-2	1	TP-4	3
FR-6f	3	RC-2a	1	ER-1	1
FR-6g	3				

NOTE: The shaded boxes pertain to commitments, or commitment portions, discussed in the 2008 AMR. The category of each commitment, or commitment portion, is designated by its number(s) as indicated below:

Category 1: active commitments with ongoing implementation activities

Category 2: commitments that have been fulfilled

Category 3: commitments that will not be implemented under the present site configuration due to DOE policy changes (such as those related to the cancellation of the WIPP

Test Phase)

Category 4: commitments, or portions of commitments, that are being tracked as environmental

compliance or data collection commitments in other DOE reports

Table 2. - Status of Mitigation Implementation for Commitments made in WIPP RODs

No.	Commitment	Status of Mitigation Implementation
FR-6	Commitment: DOE will mitigate adverse impacts of the WIPP project on the quality of the human environment by implementing the proposed mitigation activities as described in Section 9.6 of the FEIS.  Reference: FEIS ROD, p. 9-164	Methodologies for meeting the implementing mitigation activities described in Section 9.6 of the FEIS are described in commitments FR-6a through FR-6i. Of these, 6b, 6c, and 6e through 6i have been completed and are therefore not discussed in this table.
FR-6a	Commitment: Environmental monitoring will allow the DOE to be continuously aware of environmental conditions and will alert them to any unexpected impacts, so appropriate action can be taken.  Reference: FEIS, Vol. I, p. 9-114	Environmental data reported by the WIPP project are collected in accordance with the requirements of the WIPP Environmental Monitoring Plan (EMP). The EMP defines the extent and scope of the WIPP environmental monitoring programs. It describes the environmental parameters that are sampled by the WIPP in addition to the criteria and methodologies by which samples are collected.  The WIPP Annual Site Environmental Report (ASER) reports the annual monitoring data collected as part of the environmental monitoring program. The information reported annually in the WIPP ASER includes VOC (volatile organic compound) and radioactivity. Media examined include: ambient air, soil, meteorological, biota, and surface water, sediment, and ground water.
FR-6d	Commitment: Radiation monitors will be used to activate a system whereby the disposal-exhaust air will be diverted to high efficiency particulate air (HEPA) filters if an accident releases radioactivity underground.  Reference: FEIS, Vol. I, p. 9-117	The WIPP began receiving transuranic (TRU) waste on March 26, 1999. Continuous air monitors (CAMs) located at the exit of the active waste disposal panel provide the capability to activate a system to divert disposal exhaust air to high efficiency particulate air filters if an airborne radioactivity release occurrs in the underground. The decision to locate the shift to filtration function to the CAMs at the exits of the active waste disposal rooms is explained in the WIPP Radiological Control Position Paper. No. 96-05, Numbers and Placement of Effluent Continuous Air Monitors for WIPP Disposal-Phase Operations.  The EMP will continue to define the scope and extent of the WIPP emission/effluent and environmental monitoring programs during the operational life of the facility.

FR-7	Commitment: In addition to the active mitigation measures to be taken, the monitoring activities described in Section 2, Appendix J, of the FEIS will be implemented.  Reference: FEIS ROD, p. 9164	Implementation of the monitoring activities described in Section 2, Appendix J, of the FEIS is discussed in commitments FR-7a through FR-7f. Commitments 7c and 7e are no longer being tracked in this report; however, information pertaining to their implementation is provided in the WIPP BECR and ASER. Commitment 7d has been completed
FR-7a	Commitment: Continuous monitoring of seismic activity will be conducted near the surface.  Reference: FEIS, Vol. II, p. J-28	Currently, two different seismic monitoring programs are underway at the WIPP, one to evaluate regional seismic activity and the other to monitor WIPP-specific seismic activity. Quarterly summary reports of seismic activity measured by the regional seismic network are provided to DOE. These reports, most recently the Report on the Seismicity of the WIPP Site for the Period January 1, 2007 through March 31, 2008, utilize data from the WIPP off-site network (an eight-instrument array within 300 kilometers of the facility) and other networks in New Mexico. Seismic monitoring data are presented in the annual ASER.
		The on-site seismic monitoring program uses accelerometers to detect ground motion or ground acceleration at the site. Earthquakes with ground motion of 0.008 g (gravitational constant) or greater, are recorded. In the event of an earthquake of 0.015 g, onsite accelerometers would activate alarms at the Central Monitoring Room, and then physical structures and the mine would be inspected. In the event of a design-basis earthquake (0.10 g), the tornado dampers on the Waste Handling Building filtration system are closed. Data from the accelerometers are used to examine the engineering effects of seismic activity at the WIPP.
FR-7b	Commitment: It is expected that ground-water sampling for the long-term monitoring will be performed on an annual basis. However, after mining for the WIPP has started, sampling will be performed quarterly until conditions stabilize.  Reference: FEIS, Vol. II, p. J-29	This FEIS commitment pertained to water level measurements that were designed to evaluate the impacts of mining shafts and rooms on the area's formation waters. Thus, the groundwater sampling program implemented to meet these commitments involves the collection of water-level data only. The U.S. Geological Survey monitored water levels at the WIPP and surrounding areas from 1977 to 1985. Sandia National Laboratories managed these studies from 1985 through 1988. Washington TRU Solutions (WTS) took over the management of the groundwater level monitoring program in 1988.
		Under the current program, groundwater level measurements are taken monthly or quarterly.  The DOE publishes water-level data in the annual ASER.
		The groundwater sampling program is described in the WIPP EMP, the WIPP Groundwater Protection Management Program Plan, and Module V and Attachment L of the WIPP Hazardous Waste Facility Permit. Water-level measurement data are submitted to

		the New Mexico Environment Department (NIMED)
FR-7f	Commitment: Monitoring will be conducted at all gaseous-exhaust locations and will consist of devices to sample airborne particulate radioactivity. Both alpha and beta-gamma continuous air monitors will be located at all release points.  All systems will be designed to withstand the effects of a designbasis earthquake and will be supplied with emergency power.  Reference: FEIS, Vol. II, p. J-32	the New Mexico Environment Department (NMED).  The WIPP began receiving TRU wastes on March 26, 1999. Alpha CAMs located at the exits of the active waste disposal panels have the capability to activate diversion of disposal exhaust air to high efficiency particulate air filters if an airborne radioactivity release were to occur in the underground.  The Fixed Air Samplers (FASs) at Stations A, B, and C (and backup FAS at Station D) are used to satisfy the National Emission Standards for Hazardous Air Pollutants (NESHAP) requirements for periodic confirmatory sampling contained in 40 CFR Part 61, Subpart H and to document compliance with the Environmental Radiation Protection Standards for the Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes, 40 CFR Part 191, Subpart A.
		The effluent sampling system is made up of a series of FASs. The FASs at Stations A, B, and C have back-up power in the form of uninterruptible power supply that can power the monitor for up to 30 minutes. The effluent samplers have also been tested to withstand the effects of a design-basis earthquake. The results of these tests are described in the Seismic Test of Waste Isolation Pilot Plant Station A Effluent Monitoring System Equipment. Any modification to the effluent monitoring systems installed at the WIPP would retain back-up power and seismic qualification.
FR-8	Commitment: DOE also intends to implement the Post-operational Monitoring Program described in Section J-3 of the FEIS.  Reference: FEIS, Volume II, Section J.3	The DOE has developed a post-operational monitoring plan based on Subpart B of 40 CFR Part 191. Entitled <i>Preclosure and Post Closure (Long-Term) Monitoring Plan</i> , the plan was included as Appendix MON of the Compliance Certification Application submitted to the Environmental Protection Agency (EPA) in October 1996. This plan was revised in the <i>2004 WIPP Compliance Recertification Application</i> (DOE/WIPP 04-3231), submitted to the EPA on March 24, 2004. The WIPP also operates in accordance with the <i>Compliance Monitoring Implementation Plan for 40 CFR Section 191.14(b)</i> , Assurance Requirement (DOE/WIPP 99-3119).  The EPA certified on May 18, 1998, that the WIPP meets the provisions of 40 CFR Part 191 Subparts B and C and the WIPP Compliance Criteria at 40 CFR Part 194. On March 29, 2006, EPA recertified that the WIPP continues to comply with these waste disposal regulations.

RC-2	Commitment: The DOE is committedto evaluating further the potential mitigation measures described in Section 6 of the Supplement.  Reference: SEIS-I ROD, p. 25692	Commitments RC-2a and 2j are addressed below.  Mitigation commitments RC-2b through 2f have been completed and therefore are not discussed in this document. RC-2g, 2h, and 2i are no longer being tracked in this report; however, information pertaining to their implementation can be found in the BECR and the ASER.
RC-2a	Commitment: Measures would be incorporated into all of the activities to minimize the health and safety risks to the workers and the general public.  Reference: SEIS-I, Vol. 1, p. 6-2	In addition to complying with the Occupational Safety and Health Administration (OSHA) standards contained in 29 CFR Part 1910, and the Mine Safety and Health Administration (MSHA) standards contained in 30 CFR Part 57, the WIPP employs a variety of measures to minimize the environmental, health, and safety risks to workers, the general public, and the environment. The following are some of the programs in place to reduce environmental and safety risks at the WIPP.
		The WIPP Environmental Management System (EMS) and Integrated Safety Management System (ISMS) facilitate integration of safe and environmentally sound practices into management and work activities at all levels of WIPP operations. WIPP's EMS has been implemented since August 5, 1997 Since initial implementation, the EMS has successfully undergone multiple independent surveillance audits as well as annual management reviews. These indicate the EMS continues to remain suitable and effective. The most recent review is documented in the WIPP EMS Annual Report for FY 2007 (DOE/WIPP 08-3333) and the Integrated Safety Management System (ISMS) FY2007 annual review.
		The WIPP Landlord Program provides a safety inspection process that appoints individuals to be accountable for safety concerns in their area or building.
		The Condition Assessment Survey/Capital Asset Management Process ensures that every structure on site is thoroughly inspected, with inspections to include safety concerns. Inspections are performed by teams including employees, engineers, landlords, managers, and safety professionals.
		The WIPP Lessons Learned Program provides a disciplined and integrated process to identify, communicate, and ensure understanding by employees of applicable lessons-learned information gleaned from government, industry, and the WIPP. Lessons Learned materials determined to be applicable to the WIPP are disseminated to WTS department managers, and other appropriate personnel for their review and use. An annual report is sent to CBFO.
		The success in developing and maintaining a safe work environment at the WIPP is demonstrated in the following achievements:

### RC-2a (cont.)

In 2007, WIPP received its twenty-first consecutive Mine Operator of the Year award for safety performance from the New Mexico Mining Association.

On October 3, 1994, the Secretary of Energy inducted the WTS as the first Star Site in the DOE's Voluntary Protection Program (DOE-VPP). The DOE-VPP was initiated in January 1994 to recognize exemplary contractor safety and health programs. The WIPP VPP Program received DOE STAR recertification at each triennial review through October 2005.

In April 2005 WTS received a fifth DOE VPP award – the Star of Excellence. This significant achievement was based on WTS demonstrating strong involvement in VPP outreach and mentoring, performing aggressive self-assessments, and achieving an injury/illness incident rate at least 75 percent below the Bureau of Labor Statistics for similar industries. Additionally, the VPP Participants Association awarded WTS its Super Star in May 2007 for maintaining all injury rates more than 90 percent below the national average.

#### RC-2j

Commitment: While State, Tribal, and local authorities are responsible for initial response and command and control at accidents, the DOE, as owner and shipper, will be present at the scene to assess the damage, to determine whether any release of radioactive material has occurred, and to help the State and local authorities promptly inform the public about the situation. In the unlikely event that a release of radioactive material has occurred. the DOE will collect the TRU waste and any debris; decontaminate soil, vehicles, and persons as needed; reload the TRU waste into new shipping containers; and return the site of the accident to normal use.

Reference: SEIS-I, Vol. 1, p. 6-7

The WIPP employs a number of methods to assure safe shipments of waste to the WIPP, including:

- Maintaining constant communication with the drivers to relate adverse weather or road conditions and diverting shipments to safe parking areas when warranted.
- Tracking the progress of shipments via the Transportation Tracking and Communication System (TRANSCOM) in accordance with three operating procedures.
- Requiring by contract with the shipper that inspections of the shipments be performed at the beginning of each trip and every 150 miles.

To address transportation emergencies, the DOE has established an Incident/Accident Response Team to provide off-site transportation-related emergency response capabilities. The team's mission is to protect the public and the environment, recover CBFO assets, and quickly resolve transportation incidents/accidents in the field. This team operates in accordance with CBFO

RC-2j (cont.)		94-1007 Recovery Guide for TRU Waste Packages, and a local procedure, WP 12-10, for the establishment and conduct of the team's operations.
		In January 1995, the DOE issued a guidance document to address responding to WIPP-related TRU waste incidents. This guidance document, entitled <i>Emergency Planning, Response, and Recovery Roles and Responsibilities for TRU-Waste Transportation Incidents</i> , defines DOE roles and responsibilities for emergency response to a TRU waste transportation incident.
		In November 2006 the DOE issued Revision 4 of the <i>Recovery Guide for TRU Waste Packages</i> (DOE/CBFO-94-1007), which addresses transportation incidents that could occur involving a truck shipment. This guide delineates the equipment and steps necessary to recover a package(s) and transporter as a result of an incident. It is intended to apply to all recovery situations, but will remain subject to local modifications as conditions indicate.
		WIPP transportation emergency exercises are conducted to validate plans, procedures, and training of local responders to respond to WIPP-related incidents. These exercises are tailored to the specifications outlined in the guidance documents referenced above. To date, 36 emergency exercises and four transportation accident exercises have been completed.
		In April 2005, the team's capabilities were tested in a full-scale transportation exercise in Fort Worth, Texas. In this exercise, one TRUPACT II was off the trailer and the other two in the shipment were damaged. This was the last full scale exercise of this type, to date. On December 27, 2005, following an accident involving a TRUPACT-II in Idaho, two members of the Incident Accident Recovery Team were in constant communications with the incident commander at the scene; orchestrating and directing the recovery. Successful recovery was achieved within less than eight hours.
ER-1	Commitment: The DOE will work with all States through which waste will be transported to establish comprehensive training programs for emergency response personnel.	The States and Tribal Education Program (STEP) is a comprehensive emergency responder training system, which focuses on the training of personnel in the western and southern states. As of June 2006, approximately 26,000 persons have received this training.
	Reference: SEIS-I ROD, p. 25692	In 2003, the program adopted the DOE Modular Emergency Response Radiological Transportation Training (MERRTT) program sponsored by DOE Headquarters for the training of first responders. Incident Command System (ICS) and hospital training remain stand-alone WIPP STEP courses.
		The STEP is designed to supplement the hazardous materials training previously received by emergency response personnel. OSHA and the National Institute of

	DOE/CBFO-08-3322
ER-1 (Cont.)	Occupational Safety and Health have certified that the MERRTT and STEP courses comply with the applicable hazardous material training requirements of 29 CFR 1910.120(q). MERRTT and STEP training include Incident Command procedures and emergency actions for response personnel responding to an incident involving TRU waste transported to or from WIPP.  WIPP has worked closely with the states and tribes along the initial transportation corridors to plan and conduct emergency response exercises associated with simulated accident scenarios. Thus far, full-scale
	exercises have been successfully conducted with the states of Oregon, Colorado, Wyoming, Utah, Texas, Idaho, Nevada, Georgia, and New Mexico. These exercises validate the capability and proficiency of participating state, local, tribal, and DOE emergency systems and personnel.

National DOE emergency response exercises have been conducted in Colorado (1990), Idaho (1992), New Mexico (1993), and Oregon/Idaho (border exercise) (1994). This transportation accident exercise program examines the coordination and efficiency of state, local, and DOE emergency responders using simulated TRU waste.

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