2013 ANNUAL MITIGATION REPORT FOR THE WASTE ISOLATION PILOT PLANT



JULY 10, 2013

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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

CRA Compliance Recertification Application

DOE U.S. Department of Energy
EIS Environmental Impact Statement
EMP Environmental Monitoring Plan
EMS Environmental Management System
EPA Environmental Protection Agency

ER emergency response FAS fixed air sampler

FEIS Final Environmental Impact Statement

FR FEIS ROD

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

MOC Management and Operating Contractor
MSHA Mine Safety and Health Administration

NC NEPA compliance

NEPA National Environmental Policy Act

NESHAPS National Emission Standards for Hazardous Air Pollutants

NMED New Mexico Environment Department

OSHA Occupational Safety and Health Administration

RC regulatory compliance

RCRA Resource Conservation and Recovery Act

ROD Record of Decision

SEIS Supplemental Environmental Impact Statement

STEP States and Tribal Education Program

TP test phase TR transportation

TRANSCOM Transportation Tracking and Communication System

TRU

TRUPACT-II Transporter Type B Shipping Container, Model II

VOC volatile organic compound VPP Voluntary Protection Program WIPP Waste Isolation Pilot Plant

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 2013 *Annual Mitigation Report* (2013 AMR) addresses those WIPP Project-related mitigation activities undertaken from the time of submittal of the *1994 Annual Mitigation Report* in July 1994 through June 2013.

THE 2013 ANNUAL MITIGATION REPORT

A summary of each ROD commitment and its status is presented in Table 1. Each commitment has been assigned an alpha-numeric code. The alphabetic component designates the source and/or subject area of the commitment as noted below.

Alphabetic	
Code	Designation
FR	FEIS ROD – All commitments are included in this code.
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)

The numeric component designates the sequential order of the commitment. Commitment numbers are identical to those presented in the original MAP.

The table also includes a category code that represents the current status of the mitigation actions for each commitment. As in previous mitigation reports, the 2013 AMR uses the following definitions for the four status 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).

Table 2 contains tracking number(s) for active mitigation commitments (or commitment portions), the relevant text from the ROD, and a description of the implementation status for each commitment.

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

COMMIT- MENT	CATEGORY	COMMIT- MENT	CATEGORY	COMMIT- MENT	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	2	TR-1	2
FR-6c(3)	2	NC-1	2	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:

Shaded boxes pertain to commitments, or commitment portions, discussed in the 2013 AMR.

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, 6a and 6d have not been completed and are therefore 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 staff in addition to the criteria and methodologies by which samples are collected. The EMP will continue to define the scope and extent of the WIPP facility emission/effluent and environmental monitoring programs during the operational life of the facility. The WIPP ASER reports on 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, 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 facility 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 occurs 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.
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 the WIPP ASER. Commitment 7d has been completed and is not discussed in this table.
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 for the WIPP Project, one to evaluate regional seismic activity and the other to monitor WIPP facility-specific seismic activity. The regional program examines regional seismic activities such as magnitude, depth, and

No.	Commitment	Status of Mitigation Implementation
FR-7a Cont.		patterns. Quarterly summary reports are provided to DOE. These reports, most recently the <i>Report on the Seismicity of the WIPP Site for the Period October 1, 2012 through December 31, 2012</i> , 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 annually in the ASER. The on-site seismic monitoring program utilizes 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, on-site 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), a signal is sent to close the tornado dampers. When the tornado dampers close, the Waste Handling Building ventilation system is automatically stopped.
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 site and surrounding areas from 1977 to 1985. Sandia National Laboratories managed these studies from 1985 through 1988. The M&O contractor took over the management of the groundwater level monitoring program in 1988. Under the current program, groundwater level measurements are taken monthly in at least one accessible completed interval at each available well pad. At well pads with two or more wells completed in the same interval, quarterly measurements are taken in the redundant wells. The groundwater sampling program is described in the WIPP EMP, the WIPP Groundwater Protection Program Plan, and Part 5 and Attachment L of the WIPP Hazardous Waste Facility Permit. Water-level measurements are collected monthly and submitted semi-annually in the Waste Isolation Pilot Plant Semi-Annual Groundwater Surface Elevation Report to the New Mexico Environment Department (NMED).
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 betagamma continuous air monitors will be located at all release points.	The Fixed Air Samplers (FAS) 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,

No.	Commitment	Status of Mitigation Implementation
FR-7f Cont.	All systems will be designed to withstand the effects of a design-basis earthquake and will be supplied with emergency power. Reference: FEIS, Vol. II, p. J-32	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 facility would retain back-up power and seismic qualification. The effluent samples are collected and screened for alpha and beta activity, then sorted by sampling station. Composite samples from each of the three stations (A, B, & C) are submitted to a qualified laboratory for radio-analysis. The key isotopes associated with WIPP repository waste streams are reported, reviewed, and assessed using compliant methods and software for estimated public dose from air born radioactivity emissions.
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 the requirements of 40 CFR Part 191.14 and Part 194.42. The initial Environmental Protection Agency (EPA) certification (.S. Environmental Protection Agency 1998a), and the Compliance Recertification Application (CRA), Appendix MON 2004, Attachment A establish a plan for preclosure and postclosure monitoring. Entitled Preclosure and Post Closure (Long-Term) Monitoring Plan, the plan was included as Appendix MON of the Compliance Certification Application submitted to the EPA in October 1996. This plan was updated in the March 24, 2004, WIPP Compliance Recertification Application (DOE/WIPP 04-3231), and the March 24, 2009, WIPP Compliance Recertification (DOE/WIPP-09-3424). The Postclosure Monitoring Plan will not be finalized until facility closure (sealing of the shafts), and it will not be implemented until after facility closure. Further, post-closure monitoring shall be complementary to monitoring required pursuant to applicable federal hazardous waste regulations at 40 CFR parts 264 and 270 and shall be conducted with techniques that do not jeopardize the containment of waste in the disposal system. The final Postclosure Monitoring Plan will be approved by the appropriate regulatory authorities. The EPA certified on May 18, 1998, that the WIPP disposal system meets the provisions of 40 CFR Part 191 Subparts B and C and the WIPP Compliance Criteria at 40 CFR Part 194. On November 18, 2010, the EPA recertified that the WIPP disposal system continues to comply with these waste disposal regulations.

No.	Commitment	Status of Mitigation Implementation
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 are not discussed in this document. Commitments RC-2g, 2h, and 2i are no longer being tracked in this report; however, information pertaining to their implementation can be found in the WIPP BECR and the WIPP 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 facility staff employs a variety of measures to minimize the 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 facility: The WIPP Environmental Management System (EMS) and Integrated Safety Management System (ISMS) are implemented to integrate safe and environmentally sound practices into WIPP activities and operations. The WIPP EMS continues to be certified to the ISO 14001:2004 EMS standard. The EMS includes processes that assure environmental impacts are identified, appropriate controls are in place to minimize impacts, and that the environment. The environmental monitoring program results continue to demonstrate environmental impacts are minimal. Routine audits (both internal and third party) of the EMS and its implementing programs and procedures confirm that the system is effective. 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 the WIPP 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 Project. Lessons Learned materials determined to be applicable to the WIPP Project are disseminated to appropriate personnel for their review and use. The success in developing and maintaining a safe wor

No.	Commitment	Status of Mitigation Implementation
		In 2012, ten different NWP mining sections were recognized by the New Mexico State Bureau of Mine Safety for zero injury rates, and the WIPP facility received its Operator of the Year award.
RC-2a (cont.)		On October 3, 1994, the Secretary of Energy inducted the WIPP facility 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 review through March 2010.
		In 2012, the WIPP Project Management and Operating Contractor (MOC) received a DOE VPP award – the Star of Excellence. This significant achievement was based on the MOC 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 rate for similar industries. Additionally, the VPP Participants Association awarded the MOC its Star of Excellence Award in 2012 for the fourth consecutive year 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 Project employs a number of methods to assure safe shipments of waste to the WIPP facility, 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. Carrier compliance with 49 CFR 392.9(b)(2)and 392.9(b)(3)(i)(ii)(iii) that inspections of the shipments be performed within the first 50 miles at the beginning of each trip every 3 hours or every 150 miles and when a driver makes a change in their duty status. To address transportation emergencies, the DOE has established an Incident/Accident Response Team (IART) 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 94-1007 <i>Recovery Guide for TRU Waste Packages</i> , and a local procedure, WP 12-10 "WIPP Incident/Accident Response Team Plan."

No.	Commitment	Status of Mitigation Implementation
RC-2j Cont.		In June 2011 the DOE issued Revision 6 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 Project transportation-related incidents. These exercises are tailored to the specifications outlined in the guidance documents referenced above. To date, 42 transportation emergency exercises have been completed. In April 2012, the IART's capabilities were tested in a full-scale transportation exercise in Walton County Georgia. 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 IART 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.

No.	Commitment	Status of Mitigation Implementation
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 WIPP Education Program is a comprehensive emergency responder training system, which focuses on the training of personnel in the western and southern states. As of January 2012, approximately 31,000 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 WIPP Education Program is designed to supplement the hazardous materials training previously received by emergency response personnel. OSHA and the National Institute of Occupational Safety and Health have certified that the MERRTT and the WIPP Education Program courses comply with the applicable hazardous material training requirements of 29 CFR 1910.120(q). The MERRTT and the WIPP Education Program training include Incident Command procedures and emergency actions for response personnel responding to an incident involving TRU waste.
		The WIPP Project has worked closely with the states and tribes along the 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 Colorado, Georgia, Idaho, Louisiana, Nevada, New Mexico, Oregon, Texas, Utah, and Wyoming. 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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