40 CFR Part 191
Subparts B and C
Compliance Recertification Application 2026
for the
Waste Isolation Pilot Plant

Content of Compliance
Recertification Application
(40 CFR 194.15)

United States Department of Energy
Waste Isolation Pilot Plant

Carlsbad Field Office
Carlsbad, New Mexico

Compliance Recertification Application 2026
Content of Compliance Recertification Application (40 CFR 194.15)

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Acronyms and Abbreviations

ASER	Annual Site Environmental Report
ATWIR	Annual Transuranic Waste Inventory Report
BATS	Brine Availability Testing in Salt
CBFO	Carlsbad Field Office
CFR	Code of Federal Regulations
CH	contact-handled
CRA	Compliance Recertification Application
DBDSP	Delaware Basin Drilling Surveillance Program
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
EXO	Enriched Xenon Observatory
LWA	Land Withdrawal Act
Md	Coda Magnitude
MEGA	Multiple Element Germanium Array
PA	performance assessment
PCN	Planned Change Notice
PCR	Planned Change Request
RH	remote-handled
ROM	run-of-mine
RPPCR	Replacement Panels Planned Change Request
SEGA	Segmented Enriched Germanium Assembly
TRU	transuranic
USGS	United States Geological Survey
VOR	volume of record
WIPP	Waste Isolation Pilot Plant

15.0 CONTENT OF COMPLIANCE RECERTIFICATION APPLICATION (40 CFR 194.15)

15.1 Requirements

§194.15 Content of Compliance Recertification Application(s)

(a) In submitting documentation of continued compliance pursuant to section 8(f) of the WIPP LWA, the previous compliance application shall be updated to provide sufficient information for the Administrator to determine whether or not the WIPP continues to be in compliance with the disposal regulations. Updated documentation shall include:

(1) All additional geologic, geophysical, geochemical, hydrologic, and meteorological information;

(2) All additional monitoring data, analyses and results;

(3) All additional analyses and results of laboratory experiments conducted by the Department or its contractors as part of the WIPP program;

(4) An identification of any activities or assumptions that deviate from the most recent compliance application;

(5) A description of all waste emplaced in the disposal system since the most recent compliance certification or re-certification application. Such description shall consist of a description of the waste characteristics and waste components identified in 194.24(b)(1) and 194.24(b)(2);

(6) Any significant information not previously included in a compliance certification or re-certification application related to whether the disposal system continues to be in compliance with the disposal regulations; and

(7) Any additional information requested by the Administrator or the Administrator's authorized representative.

(b) To the extent that information required for a re-certification of compliance remains valid and has been submitted in previous certification or re-certification applications(s), such information need not be duplicated in subsequent applications; such information may be summarized and referenced.

15.2 Background

The requirements of 40 Code of Federal Regulations (CFR) 194.15 ensure that each Compliance Recertification Application (CRA) includes documentation regarding any changes in activities or conditions pertaining to the disposal system that may have occurred since the previous certification or recertification. Updated information regarding relevant aspects of the waste and the disposal system is documented in this section.

15.3 Changes or New Information Since the CRA-2019

Changes and new information since the CRA-2019 related to 40 CFR 194.15 are either described below or referenced to relevant sections or appendices of the CRA-2026 that provide the necessary information.

Much of the information provided in this section is obtained from routinely published reports. Table 15-1 lists these reports and summarizes the type of information contained therein. The

specific reports referenced in Table 15-1 are the latest versions published as of the CRA-2026 data cutoff date of January 10, 2025.

Table 15-1. Routine Reports

Description	Summary	Frequency	Reference
WIPP Annual Site Environmental Report (ASER)	This report meets the requirements of U.S. Department of Energy (DOE) Order 231.1B and provides an overview of the Waste Isolation Pilot Plant (WIPP) facility environmental monitoring processes and monitoring/surveillance results to members of the public, DOE headquarters, and other interested stakeholders.	Annual	U.S. DOE 2024a
Geotechnical Analysis Report	This report provides data on the geotechnical performance of underground facility components, including shafts, shaft stations, access drifts, and waste disposal areas. Volume 1 outlines the overall program, while Volume 2 compiles the collected data.	Annual	U.S. DOE 2024b
Delaware Basin Monitoring Annual Report	This report details changes in drilling activities, including rates for shallow and deep drilling, borehole plugging, injection wells, potash extraction, sulfur recovery, solution mining, and any other new activities primarily related to human intrusion. It compiles the necessary data to demonstrate compliance with 40 CFR 194.33.	Annual	U.S. DOE 2025a
WIPP Annual Change Report	This report provides updates on any non-significant changes in conditions or activities related to the disposal system, as required by 40 CFR 194.4(b)(4). Most of the reported items include inspections, reports, and modifications to written plans and procedures. Additionally, the report offers updated information on the inventory of emplaced transuranic (TRU) waste.	Annual	U.S. DOE 2024c
WIPP Subsidence Monument Leveling Survey	This report provides updates on elevation at monuments around the WIPP site, comparing them to the baseline survey and the vertical control points from the National Geodetic Survey to quantify changes in elevation.	Annual	U.S. DOE 2025b
Annual Transuranic Waste Inventory Report (ATWIR)	This report provides the DOE Carlsbad Field Office (CBFO) with an estimate of the stored and projected inventories of TRU waste at generator sites. It includes estimates of TRU waste volume, the mass of waste and packaging materials, the mass of chemical components, and radionuclide activity, which are necessary inputs to performance assessments.	Annual	U.S. DOE 2024d
Description	**Summary**	**Frequency**	**Reference**
WIPP Biennial Environmental Compliance Report	This report details compliance with applicable laws, regulations, and permit requirements for the WIPP Project, as mandated by the 1992 Waste Isolation Pilot Plant Land Withdrawal Act (LWA).	Biennial	U.S. DOE 2024e

15.3.1 40 CFR 194.15(a)(1)

Title 40 CFR 194.15(a)(1) requires the submittal of "all additional geologic, geophysical, geochemical, hydrologic, and meteorological information." Information related to this requirement is provided in Sections 15.3.1.1 through 15.3.1.5.

15.3.1.1 Geologic Information

Since the CRA-2019 data cutoff date of January 8, 2018, two new WIPP monitoring wells, H-5bR and WIPP-11R, have been drilled. These new wells replace wells H-5b and WIPP-11, which were plugged and abandoned because of deteriorated well casings. The plugged, abandoned, and reconfigured WIPP monitoring wells are discussed in Appendix HYDRO-2026.

In 2018, the drilling of a core hole, C-3977, for the planned new utility shaft was completed. The geologic description and correlation of the new shaft with air intake shaft geology was documented by the WIPP Environmental Monitoring and Hydrology Program (Powers et al. 2018) and used to design the new utility shaft. At the time of data cutoff for CRA-2026, the mining of the new shaft was complete, the mining of the drifts to connect to the exiting repository was complete, and the construction of the shaft station was complete.

15.3.1.2 Geophysical Information

The Delaware Basin Drilling Surveillance Program (DBDSP) collects seismic information on areas within and outside of the Delaware Basin, the boundaries of which are defined in 40 CFR 194.2.

Seismic events occurring within the Delaware Basin are recorded in the Delaware Basin Well Tracking Application. This information was historically obtained every quarter from the New Mexico Institute of Mining and Technology Seismological Observatory under a contract, which ended in March 2024. Since April 1, 2024, seismology data have been accessed from the United States Geological Survey (USGS) Earthquake Hazardous Program Database (USGS 2025), and the DBDSP database is updated monthly.

As reported in the Delaware Basin Monitoring Annual Reports issued since the CRA-2019 cutoff date, 24,603 seismic events were recorded within the Delaware Basin boundary. Recorded events that have occurred within the reporting period for the CRA-2026 are listed in Table 15-2.

Table 15-2. Seismic Events in the Delaware Basin, September 1, 2017 – August 31, 2024

County	State	No. of Events	Latest Event	Largest Magnitude (Md)
Culberson	Texas	17,265	08/01/2024	4.7
Eddy	New Mexico	592	06/02/2024	4.0
Jeff Davis	Texas	13	01/19/2023	2.6
Lea	New Mexico	370	08/10/2024	3.1
Loving	Texas	358	08/01/2024	3.9
Pecos	Texas	214	08/30/2024	3.2
Reeves	Texas	5,503	08/01/2024	5.4
Ward	Texas	230	04/20/2024	3.6
Winkler	Texas	58	04/23/2024	3.8

Source: U.S. DOE 2018a, U.S. DOE 2019b, U.S. DOE 2020a, U.S. DOE 2021a, U.S. DOE 2022a, U.S. DOE 2024f, and U.S. DOE 2025a

15.3.1.3 Geochemical Information

New geochemical information has been collected and summarized since the CRA-2019. This new information is described in detail in Appendix HYDRO-2026 and Appendix GEOCHEM-2026.

15.3.1.4 Hydrologic Information

Pumping tests were conducted in three replacement Culebra wells, H-15R, H-5bR, and WIPP-11R. Transient measurements of pressure head in surround wells were used to estimate transmissivity (T), anisotropy ratio (A), and storativity (S). These data were part of the dataset used in the recalibration of TFIELDs for CRA-2026. Updated hydrologic data and well construction and replacement information are described in detail in Appendix HYDRO-2026.

15.3.1.5 Meteorological Information

The Meteorological Monitoring Program measures atmospheric data for the WIPP site. Information related to recent meteorological conditions is provided in the ASER for the reporting period (U.S. DOE 2018b, U.S. DOE 2019c, U.S. DOE 2020b, U.S. DOE 2021b, U.S. DOE 2022b, U.S. DOE 2023a, and U.S. DOE 2024a).

15.3.2 40 CFR 194.15(a)(2)

Title 40 CFR 194.15(a)(2) requires the submittal of, “all additional monitoring data, analyses, and results.” Information related to this requirement is provided below.

Monitoring programs and references to relevant reports, such as the Geotechnical Analysis Report and the Delaware Basin Monitoring Annual Report, are included in Appendix MON-2026 and Appendix DATA-2026. Appendix MON-2026 describes pre-closure and post-closure monitoring programs designed to collect data on parameters that are indicators of long-term performance of the disposal system. Appendix DATA-2026 provides information about the

sources of data used to develop the CRA-2026. Appendix DATA-2026, Attachment A, also provides an updated list of boreholes in the vicinity of the WIPP. Interpretation and analyses of those data are provided in the appropriate sections of the CRA-2026.

15.3.3 40 CFR 194.15(a)(3)

Title 40 CFR 194.15(a)(3) requires the submittal of, "all additional analyses and results of laboratory experiments conducted by the Department or its contractors as part of the WIPP program." Section 15.3.3.1 describes all experimental work conducted since the CRA-2019 in the areas of WIPP repository conditions and parameterization, which include: Geochemistry; Microbiology; Colloids; Actinide Sorption, Solubility, and Complexation and Redox; and Rock Mechanics.

15.3.3.1 WIPP Repository Conditions, Chemistry, and Processes

Appendix DATA-2026 provides references to studies pertaining to ethylenediaminetetraacetic acid, citrate, lead, iron, borate, microbiology, colloids, actinide chemistry, waste compaction behavior, salt reconsolidation, panel closure, and WIPP stratigraphy, which occurred after the CRA-2019 data cutoff date. A detailed description of the current conditions and assumptions used in performance assessment (PA) is provided in Appendix MASS-2026.

15.3.4 40 CFR 194.15(a)(4)

Title 40 CFR 194.15(a)(4) requires that the DOE "identify any activities or assumptions that deviate from the most recent compliance application." Information related to this requirement is provided in Sections 15.3.4.1 through 15.3.4.5.

15.3.4.1 Status of Underground Excavation

The status of mining in the WIPP underground repository is shown in Figure 15-1. As of January 10, 2025, Panels 1 through 8 and the access drifts to Panel 11 have been completely mined. In addition, mining has begun in Panel 11. Waste emplacement has been completed in Panels 1 through 7 and is in progress in Panel 8.

The geotechnical analysis reports from 2018 through 2024 (U.S. DOE 2018c, U.S. DOE 2019d, U.S. DOE 2020c, U.S. DOE 2021c, U.S. DOE 2022c, U.S. DOE 2023b, and U.S. DOE 2024b) show that no anomalous behavior has been detected since the CRA-2019 data cutoff date. As expected, slow deterioration of ground conditions has occurred in the repository due to age, but this has been mitigated by routine maintenance and the implementation of engineered systems, as needed.

15.3.4.2 Remote-Handled Transuranic Waste Emplacement

Remote-handled transuranic (RH-TRU) waste has been emplaced in boreholes in the walls of Panels 4, 5, 6, and 7 (see Figure 15-1). Currently, shielded container assemblies are used to

dispose of RH-TRU waste but are managed and emplaced as contact-handled transuranic (CH-TRU) waste. Appendix DATA-2026, Attachment B, provides detailed information on the four new variants of shielded containers approved by the Nuclear Regulatory Commission since the CRA-2019. Section 15.3.4.4. describes the notification of these new shielded containers to the U.S. Environmental Protection Agency (EPA).

15.3.4.3 Experiments in the WIPP Underground Repository

A list of ongoing experiments at the WIPP and the status of each as of the January 10, 2025, data cutoff is provided below:

- Hydrogen (Nonflammable Gas Mixture) Storage in Permian Basin Bedded Salt Formations Experiment:

  This experiment measures hydrogen diffusion and advective transport to better understand the potential for storing hydrogen in bedded salt. In late 2024, testing began using existing horizontal boreholes for characterizing pore-scale and effective porous medium-scale observation of argillaceous halite, and testing is ongoing.

- Salt Disposal Investigation Brine Availability Testing in Salt (BATS):

  Since 2011, Los Alamos National Laboratory, Lawrence Berkeley National Laboratory, and Sandia National Laboratories have conducted ongoing research at the WIPP testing bedded salt as host for heat generating radioactive materials. The BATS experiment aims to understand how salt and brine water behave near heat producing waste packages to provide a sound technical basis for multiple viable disposal options in the United States, and testing is ongoing as of fiscal year 2025.

The following experimental activities have been completed since the data cutoff for CRA-2019:

- Hydrogen Storage Safety Sensor Testing in the Bedded Rock Salt of the Permian Basin Experiment:

  This experiment was for testing a hydrogen safety sensor and exploring the feasibility of hydrogen storage in bedded rock salt. Hydrogen Storage Safety Sensor testing was discontinued in December 2023. The safety sensor instrumentation was permanently removed from the test location and testing is complete.

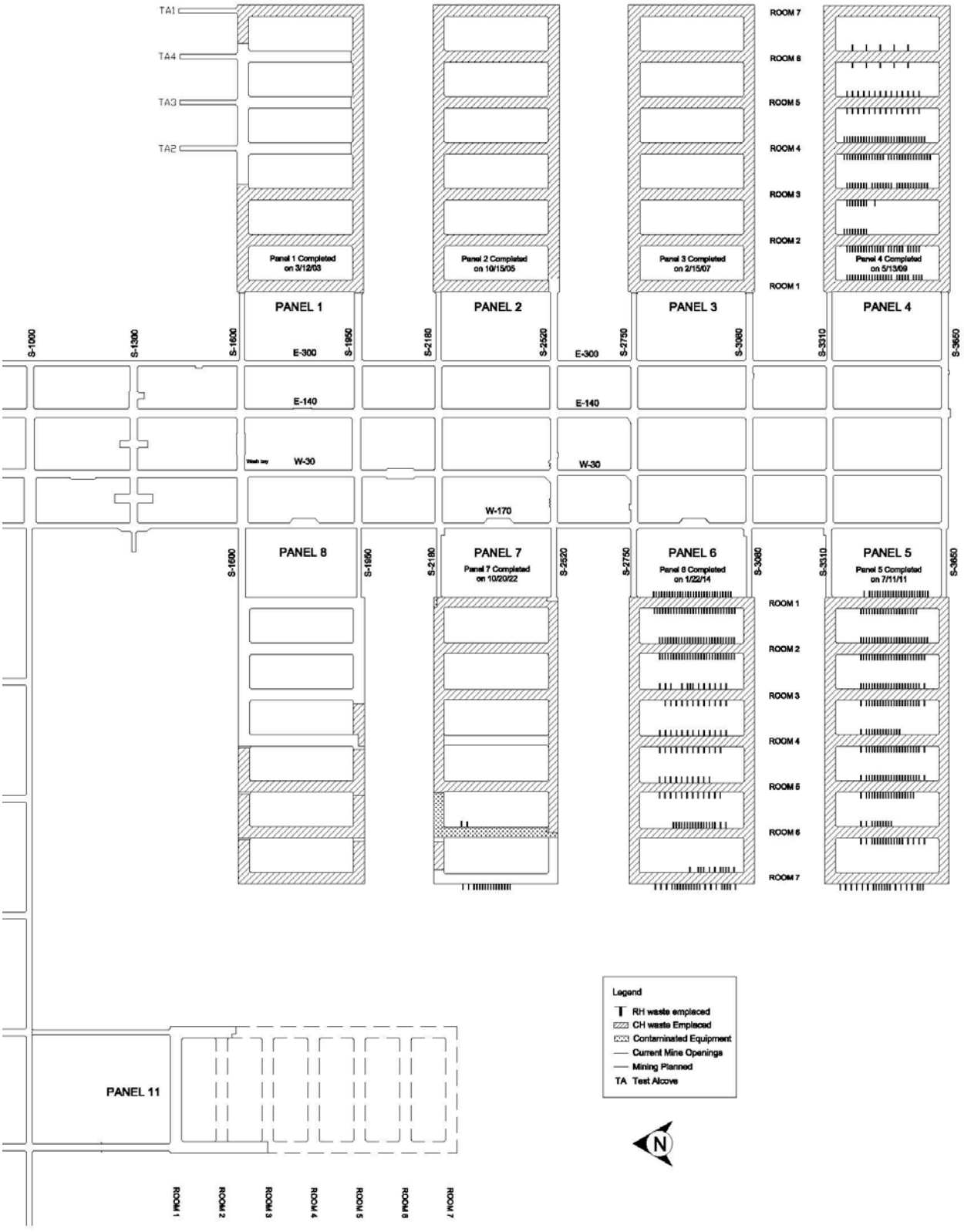


Figure 15-1. Status of Mining and Waste Emplacement as of January 10, 2025

- Canister Heater Operational Testing:

  Heater canister prototype testing was part of the generic research being performed by the DOE Office of Nuclear Energy Used Fuel Disposition campaign to explore geologic disposal in salt, granite, clay/shale, and deep boreholes. Canister heater activities began in September 2017 and were discontinued in July 2024. The test ended to remove the canister heater and perform mining in the test location for ground control. The canister heater, instrumentation, and data acquisition systems were permanently removed from the test location and testing is complete.

- Segmented Enriched Germanium Assembly (SEGA), and Multiple Element Germanium Array (MEGA):

  The SEGA and MEGA experimental work were discontinued in March 2018 due to ground stability in the Q-room area of the S-90 drift and testing equipment was removed from the WIPP underground.

- Enriched Xenon Observatory (EXO):

  EXO activities were discontinued in November 2018, and the process of decommissioning and removing equipment from the WIPP underground was completed in 2021.

- Low Background Radiation Experiment:

  Experiments have been ongoing in the WIPP underground since 2009. This research (surface and underground) consists of growing, handling, culturing, and testing organisms in a low background radiation environment. Testing activities were completed in October 2024; however, funding is being sought to continue testing in calendar year 2025.

15.3.4.4 Planned Change Notice Submittals

A Planned Change Notice (PCN) is a formal submittal of information to the EPA that describes minor, insignificant changes to activities and conditions at the WIPP that are different from those described in the compliance baseline. A summary of the PCNs submitted since the CRA-2019 data cutoff date is provided below.

Change in Methodology for Calculating the Volume of Record for Disposal of Transuranic Waste at the Waste Isolation Pilot Plant

On June 22, 2018, the DOE submitted to the EPA a notice of plans to change the methodology for calculating the WIPP LWA volume of record (VOR) for disposal of CH-TRU waste at the WIPP facility (U.S. DOE 2018d). This methodology provides a more appropriate estimate of the volume of TRU waste emplaced in the repository. For waste that is not overpacked, the VOR is the volume of the WIPP-approved container. For waste that is overpacked, the VOR is the sum

of the volumes of the containers inside an overpack container. The EPA found that "this updated calculation methodology should have limited effect on the DOE's compliance with EPA's regulations." However, the EPA stressed that its review was limited strictly to the updated method of tracking TRU waste volume and did not authorize any modification to the current repository footprint that was reflected in the most recent CRA (U.S. EPA 2023a).

Run-of-Mine Panel Closure System Installation and Abandonment of Waste Emplacement in Panel 9 at the Waste Isolation Pilot Plant

On January 30, 2019, the DOE submitted a notice to the EPA outlining plans for the run-of-mine (ROM) panel closure system installation for long-term repository performance and no TRU waste disposal in equivalent Panel 9 at the WIPP (U.S. DOE 2019e). These plans included: 1) installation of ROM panel closure system in Panels 1, 2, 7, 8, and between equivalent Panels 9 and 10; 2) abandonment of TRU waste emplacement in Panel 9; and 3) stopping the emplacement of the ROM panel closure system for Panels 3, 4, 5, and 6.

The EPA informed the DOE of its approval of the changes to the panel closures on March 21, 2019 (U.S. EPA 2019); additionally, the EPA requested that the DOE provide a schedule for implementation of the various ROM panel closure system activities.

Excavation of the West Mains Access Drifts

On June 23, 2021, the DOE submitted a notice to the EPA outlining plans to excavate five main access drifts referred to as the West Mains to the west of the existing W-170 drift (U.S. DOE 2021d). The DOE clarified that the West Mains are not intended for TRU waste disposal. Subsequent to this notification, the EPA requested an updated diagram depicting the panel closures via a letter on August 31, 2021 (U.S. EPA 2021a), and the DOE responded to this request on September 13, 2021 (U.S. DOE 2021e).

On October 13, 2021, the EPA indicated that it had not "identified any concerns that would result in the facility being out of compliance with 40 CFR Part 194." However, the EPA communicated its expectations that the DOE would appropriately incorporate the increased repository footprint in future performance assessments to capture the potential impact on projected releases from the repository (U.S. EPA 2021b).

The Addition of Four New Shielded Containers

The DOE submitted a notice to the EPA on April 25, 2023, outlining plans for the addition of four new shielded container variants for the emplacement of RH-TRU waste at the WIPP facility. These new variants, similar to the SC-30G1 container that had been previously approved by the EPA, reduce the surface dose rate of RH-TRU waste such that it can be managed as CH-TRU waste (U.S. DOE 2023c). The EPA responded to this notification on September 15, 2023, by stating that although it found the PCN consistent with the terms of the existing certifications, in the future, the EPA expects the DOE to assess both the lead and steel surface areas to determine their effects on anoxic corrosion and repository gas generation (U.S. EPA 2023b).

The Start of Experimental Activities

The DOE submitted two notices to the EPA outlining plans for the start of non-WIPP-related experimental activities in the underground. The first notification occurred on July 13, 2023, and described activities associated with hydrogen safety sensor testing in the WIPP northern underground experimental area, the objective being to detect hydrogen leakage and, as a result, determine hydrogen transport properties in bedded salt (U.S. DOE 2023d). On June 5, 2024, the DOE provided a second notification regarding the start of experimental activities associated with storage of a nonflammable gas mixture containing hydrogen, the goal being to understand the behavior of hydrogen in bedded salt with the objective of validating pore-scale and effective-porous medium models (U.S. DOE 2024g). In both cases, planned tests would not result in modifications or impacts to waste disposal process or operations, the WIPP repository through new mining, or the mine ventilation system, nor would they introduce hazards/material not previously evaluated. The EPA responded to these notifications on August 17, 2023 (U.S. EPA 2023c), and June 27, 2024 (U.S. EPA 2024), respectively.

15.3.4.5 Planned Change Request Submittals

A Planned Change Request (PCR) is a formal submittal of request to the EPA for approval of a change to activities and conditions at the WIPP that are different than those described in the compliance baseline. A summary of the PCRs submitted since the CRA-2019 data cutoff date is provided below.

Alternative Panel Closure Locations for Panels 1 and 2

On November 2, 2020, the DOE submitted a request to the EPA outlining plans to place ROM salt in alternate locations for Panels 1 and 2 (U.S. DOE 2020d). This PCR outlined the DOE's primary concern for choosing the alternate locations as being continued protection of workers from the potential hazards associated with working in and around the entrances to Panels 1 and 2 and in the E-300 drift including, but not limited to, unstable ground conditions and radiological contamination.

On April 14, 2021, the EPA approved the PCR, indicating that the agency found that the alternate panel-closure design would be comparable to and continue to comply with the EPA-approved ROM panel closure system design. The alternate panel closure design would continue to have a minimum of 100 feet of salt between ventilation bulkheads that fills the drift from floor to ceiling (U.S. EPA 2021c). Furthermore, the EPA indicated that the modifications to the ROM panel closure system for Panels 1 and 2 should not significantly impact calculated releases in the PA and would not require modification of the compliance criteria.

The Use of Replacement Panels 11 and 12

On March 12, 2024, the DOE submitted the Replacement Panels Planned Change Request (RPPCR) to the EPA outlining plans to recover disposal capacity lost in Panels 1, 7, and 9 with two replacement panels, Panels 11 and 12 (U.S. DOE 2024h). The DOE posited that the RPPCR

PA did not constitute a significant departure from CRA-2019 in that releases from the replacement panels showed similar behavior to those from the existing panels. The DOE showed that the change to the disposal system from the use of the replacement panels had very little impact on direct releases.

On August 19, 2025, the EPA published its approval of the RPPCR in the Federal Register (U.S. EPA 2025a). In its approval letter to the DOE, the EPA stated that it had not identified any concerns that would result in the WIPP being out of compliance with the requirements of 40 CFR Parts 191 and 194 (U.S. EPA 2025b).

15.3.5 40 CFR 194.15(a)(5)

Title 40 CFR 194.15(a)(5) requires that the CRA-2026 include, "a description of all waste emplaced in the disposal system since the most recent compliance certification or recertification application. Such description shall consist of a description of the waste characteristics and waste components identified in 194.24(b)(1) and 194.24(b)(2)." Information related to these requirements is provided in Sections 15.3.5.1 and 15.3.5.2.

15.3.5.1 Status of Waste Emplacement

The status of waste emplacement in the WIPP underground repository is illustrated in Figure 15-1. Additional detail is provided in the Annual Change Reports (U.S. DOE 2018e, U.S. DOE 2019f, U.S. DOE 2020e, U.S. DOE 2021f, U.S. DOE 2022d, U.S. DOE 2023e, and U.S. DOE 2024c).

15.3.5.2 Waste Characteristics and Components

Section 24 provides an updated inventory of waste anticipated to be emplaced in the WIPP and waste that has already been emplaced since the CRA-2019 data cutoff date. Appendix TRUWASTE-2026 describes waste characteristics and components important to the performance of the disposal system.

There have been seven inventory updates in ATWIRs 2018 – 2024 (U.S. DOE 2018f, U.S. DOE 2019g, U.S. DOE 2020f, U.S. DOE 2021g, U.S. DOE 2022e, U.S. DOE 2023f, and U.S. DOE 2024d) since the January 8, 2018, data cutoff.

15.3.6 40 CFR 194.15(a)(6)

Title 40 CFR 194.15(a)(6) requires the submittal of, "any significant information not previously included in a compliance certification or recertification application related to whether the disposal system continues to be in compliance with the disposal regulations."

The information required by this section of the certification criteria is provided in the sections and appendices of the CRA-2026. This information demonstrates that the DOE continues to comply with the requirements of 40 CFR 194.15.

15.3.7 40 CFR 194.15(a)(7)

Title 40 CFR 194.15(a)(7) requires the submittal of "any additional information requested by the Administrator or the Administrator's authorized representative."

On January 16, 2025, the EPA sent a letter to the DOE outlining its expectations for the CRA-2026 PA calculations (U.S. EPA 2025c). The EPA stated the DOE "must submit a PA that reflects the number of panels that have been approved," which will serve as the main basis for the EPA's recertification decision. Furthermore, the EPA requested the DOE provide a supplemental calculation that considers the total inventory of waste proposed for disposal in WIPP, as required by 40 CFR 194.24(c)(1). The CRA-2026 PA is based on the approved interim 12-panel state of the repository, which includes an appropriately adjusted inventory, as described in CRA-2026, Section 24. Appendix PA-2026 presents the results of the PA performed for the 12-panel interim repository state. Additionally, CRA-2026 includes a supplemental analysis of the expected final state of the repository. The final state repository is that configuration that accommodates the Land Withdrawal Act (U.S. Congress 1992) TRU waste volume of 6.2 million cubic feet. This supplemental analysis is included in Appendix PA-2026 as Attachment Supplemental Final State.

15.3.8 40 CFR 194.15(b)

Title 40 CFR 194.15(b) states: "To the extent that information required for a re-certification of compliance remains valid and has been submitted in previous certification or re-certification application(s), such information need not be duplicated in subsequent applications; such information may be summarized and referenced."

The DOE has followed this guidance in the preparation of this recertification application. Where appropriate, information from the Compliance Certification Application (U.S. DOE 1996), the CRA-2004 (U.S. DOE 2004), the CRA-2009 (U.S. DOE 2009), the CRA-2014 (U.S. DOE 2014), and CRA-2019 (U.S. DOE 2019a) that remains valid and unchanged is not repeated in this recertification application; instead, it is summarized and incorporated by reference.

15.3.9 Status of Compliance with 40 CFR 194.15

The information in this section, along with other sections and appendices of the CRA-2026, demonstrates that the DOE continues to comply with the requirements of 40 CFR 194.15.

15.4 References

(*Indicates a reference that has not been previously submitted.)

Powers, D.W., R.M. Holt, R. Salness, B. Seal, A. Hall, and J. Thurston. 2018. Geology of C-3977 (Pre-shaft corehole) for Waste Isolation Pilot Plant (WIPP): report to Nuclear Waste Partnership, Carlsbad, NM. DOI: 10.13140/RG.2.2.29086.84801*

U.S. Congress. 1992. WIPP Land Withdrawal Act, Public Law 102-579, 106 Stat. 4777, 1992; as amended by Public Law 104-201, 110 Stat. 2422, 1996.*

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