



**Annual Change Report 2012/2013**

**From July 1, 2012, to June 30, 2013**

**October 15, 2013**

Prepared for:

**The U.S. Department of Energy**

Prepared by:

**Nuclear Waste Partnership LLC**

**Regulatory Environmental Services**

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## Introduction

The U.S. Environmental Protection Agency (EPA) requires the U.S. Department of Energy (DOE) to provide information on any change in conditions or activities pertaining to the disposal system since the most recent compliance application. This requirement is identified in Title 40 Code of Federal Regulations (CFR), Section 194.4(b)(4), which states:

“No later than six months after the administrator issues a certification, and at least annually thereafter, the Department shall report to the Administrator, in writing, any changes in conditions or activities pertaining to the disposal system that were not required to be reported by paragraph (b)(3) of this section and that differ from information contained in the most recent compliance application.”

The DOE provides an annual report each November of applicable changes under the above requirement. This annual report informs the EPA of changes to information in the most recent compliance application (the 2009 Compliance Recertification Application (CRA)). Significant planned changes must be reported to the EPA prior to implementation by the DOE. In addition, Title 40 CFR, Section 194.4(b)(3) requires that significant unplanned changes be reported to the EPA within 24 hours or ten days, depending on the severity of the activity or condition. Planned changes are submitted on an individual basis. Other changes are reported annually.

Changes in activities or conditions are reviewed to determine if 40 CFR Section 194.4(b)(3) reporting is necessary. The enclosed tables list those items identified for reporting under 40 CFR Section 194.4(b)(4). The majority of the items described in this report are inspections, reports, and modifications to written plans and procedures for Waste Isolation Pilot Plant (WIPP) operations.

This report captures the summary of each change within seven tables for the period July 1, 2012, through June 30, 2013:

Table 1: Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4) documents EPA and DOE interactions during the reporting period with a one or two sentence description of each correspondence.

Table 2: Procedure Revision Table documents changes to relevant plans and procedures during the reporting period.

Table 3: Waste Emplacement Summary Report documents the transuranic (TRU) waste inventory for the waste parameters. The summary provides the total emplaced inventory in the repository as of June 30, 2013.

Table 4: Performance Assessment, Software, and Hardware Changes documents the changes to relevant codes, software, and hardware that have occurred during the current reporting period.

Table 5: Passive Institutional Controls (PICs) Activity documents the relevant activities that would be applicable to the development of PICs. This table has been added in compliance with the EPA revised PICs schedule. (Reyes to Moody, March 7, 2008)

Table 6: EPA Waste Characterization Inspections – January 2008 to June 2013, documents inspections performed by the EPA pertaining to Tier 1 changes to the baseline approvals at generator and storage sites for TRU waste. This table was added to the Annual Change Report at the request of the EPA during the EPA/DOE management meeting held July 29, 2010. Inspections prior to January 2008 were documented in Table CARD 8-1 *EPA Waste Characterization Inspections* submitted with the five-year recertification applications. (EPA request, July 29, 2010)

Table 7: EPA Quality Assurance Audits – January 2008 to June 2013, documents audits performed by the EPA for generator and storage sites for TRU waste. This table was added to the Annual Change Report at the request of the EPA during the EPA/DOE management meeting held July 29, 2010. Audits prior to January 2008 were documented in Table CARD 8-2 *EPA Quality Assurance Audits by Site* submitted with the five-year recertification applications. (EPA request, July 29, 2010)

In accordance with the EPA requests and feedback, this report incorporates suggestions and guidance for capturing the appropriate level of detail and the layout of information with respect to the WIPP certification criteria. This report does not include administrative changes to procedures such as editorial changes, reformatting, correcting the titles of references, correcting inconsistency within a procedure, and other changes that do not change the substance or intent of the document.

**Table 1:**

**Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4)**

**Table 1: Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4)**

Regulatory Requirements	Implementing Document or Activity that Changed	Description of the Change and DOE Assessment of the Impact of the Change
194.4(b)(3) Planned Change Requests	Shielded Containers Planned Change Request	<u>DOE to EPA May 16, 2013</u> . Submittal of complex-wide procedure, CCP-TP-081, “CCP Shielded Container Assembly Loading” as requested in EPA’s letter dated August 8, 2011.
194.4(b)(4) Annual Change Report	2011/2012 Annual Change Report	<u>DOE to EPA November 6, 2012</u> . CBFO submittal of the “Waste Isolation Pilot Plant 2011/2012 Annual Change Report”.
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	Advanced Mixed Waste Treatment Project (AMWTP)	<p><u>DOE to EPA December 5, 2012</u>. CBFO response to EPA concerns resulting from a continued compliance inspection held October 30 to November 1, 2012.</p> <p><u>EPA to DOE January 29, 2013</u>. EPA approved the Tier 1 request for the acceptable knowledge (AK) process implemented by AMWTP- Idaho Treatment Group (ITG). The Tier 1 request included debris (S5000) and solids (S3000) from Argonne National Laboratory – East and debris (S5000) from the Materials and Fuels Complex (MFC) at the Idaho National Laboratory (INL). EPA docket no. A-98-49; II-A4-169.</p> <p><u>EPA to DOE April 25, 2013</u>. EPA approval of the Contact-Handled (CH) TRU waste characterization program at AMWTP. EPA docket no. A-98-49; II-A4-173.</p> <p><u>DOE to EPA May 30, 2013</u>. Tier 1 request to add Los Alamos National Laboratory (LANL) debris waste.</p>
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	Argonne National Laboratory (ANL)– Tier 1 request	<p><u>DOE to EPA August 1, 2012</u>. Tier 1 request for ANL-Central Characterization Project (CCP) Remote Handling (RH) evaluating radiological approach of the waste stream AERHDM.</p> <p><u>EPA to DOE October 4, 2012</u>. Approval to add two RH debris types to the AERHDM waste stream. EPA Docket number A-98-49; II-A4-167.</p> <p><u>DOE to EPA December 5, 2012</u>. Submittal of documentation for Tier 1 request for ANL-East generated waste at the AMWTP.</p>
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	Idaho National Laboratory (INL) – Tier 1 request	<p><u>EPA to DOE July 25, 2012</u>. Approval of Tier 1 request to add Lot 2 waste to the RH TRU waste stream ID-ANLE-S5000. EPA Docket No. A-98-49; II-A4-163.</p> <p><u>DOE to EPA November 16, 2012</u>. Tier 1 request for a new calibration for the Stored Waste Examination Pilot Plant (SWEPP) Gamma-Ray Spectrometer (SGRS) Unit with submittal of the SGRS calibration, confirmation and verification report.</p> <p><u>EPA to DOE February 26, 2013</u>. EPA approval of the Tier 1 request to use a new calibration for the SWEPP SGRS. EPA docket no. A-98-49; II-A4-172.</p>

**Table 1: Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4)**

Regulatory Requirements	Implementing Document or Activity that Changed	Description of the Change and DOE Assessment of the Impact of the Change
		<u>DOE to EPA April 29, 2013</u> . Submittal of documents in support of the continued compliance inspection of INL-CCP.
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	LANL– Tier 1 request	<p><u>DOE to EPA July 16, 2012</u>. Tier 1 request for the addition of the S4000 summary category group to the CCP- CH waste program.</p> <p><u>EPA to DOE August 14, 2012</u>. Approval of two Tier 1 requests; (1) extension of the gamma density range of the High Efficiency Neutron Counter Unit 1 (HENC No. 1) non-destructive analysis (NDA), and (2) extension of the gamma density range of the Super High Efficiency Neutron Counter (SuperHENC). EPA Docket No. A-98-49; II-A4-164.</p> <p><u>DOE to EPA October 17, 2012</u>. Submittal of LANL CCP CH Tier 1 S4000 training demonstration information requested by EPA.</p> <p><u>EPA to DOE December 31, 2012</u>. Approval of the addition of summary category group (SCG) S4000 to the baseline approval of LANL CCP. Docket number A-98-49; II-A4-168.</p> <p><u>DOE to EPA May 30, 2013</u>. Tier 1 request for the use of the Mobile In-Situ Object Counting Systems (ISOCS) Large Container Counter to assay CH S3000 and S5000 waste in 55-gallon drums, Standard Waste Boxes (SWBs) and Corrugated Metal Boxes.</p>
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	Savannah River Site (SRS) – Tier 1 request	<p><u>DOE to EPA July 3, 2012</u>. Tier 1 request for a five-foot set-back configuration on the large box counter and submittal of calibration reports.</p> <p><u>EPA to DOE September 11, 2012</u>. Approval of the Tier 1 request for a five-foot setback configuration (55-gallon drums only) of the Nondestructive Assay Box Counter (NABC).</p> <p><u>DOE to EPA November 28, 2012</u>. Tier 1 request to evaluate waste stream SR-RH-235F.01, 55-gallon containers of RH TRU debris.</p> <p><u>DOE to EPA December 18, 2012</u>. Tier 1 request for a five-foot setback configuration on the Large Box Counter with calibration reports.</p> <p><u>EPA to DOE February 12, 2013</u>. EPA approval to add waste stream SR-RH-235F.01 to the baseline approval. EPA docket no. A-98-49; II-A4-170.</p> <p><u>EPA to DOE February 21, 2013</u>. EPA approval of the five-foot setback configuration on the Large Box Counter. EPA docket no. A-98-49; II-A4-171.</p> <p><u>DOE to EPA May 30, 2013</u>. Tier 1 request for EPA to evaluate the radiological approach of RH SRS debris waste stream SR-RH-772F.01.</p>

**Table 1: Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4)**

Regulatory Requirements	Implementing Document or Activity that Changed	Description of the Change and DOE Assessment of the Impact of the Change
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	Fiscal Year 2012 (FY12) Quarterly Tier 2 reports, third quarter	<p><u>DOE to EPA July 25, 2012.</u> Notification of Tier 2 changes for AMWTP and CCP activities at ANL, Bettis Atomic Power Laboratory (BAPL), Hanford, INL, LANL, Oak Ridge National Laboratory (ORNL), Sandia National Laboratories (SNL) and SRS for FY12, third quarter.</p> <p><u>EPA to DOE September 25, 2012.</u> Review and acceptance of the Tier 2 changes made during FY12, third quarter at AMWTP and CCP.</p> <p><u>DOE to EPA October 15, 2012.</u> Response to EPA request for documents from the Tier 2 third quarter for FY12.</p>
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	FY12 Quarterly Tier 2 reports, fourth quarter	<p><u>DOE to EPA October 24, 2012.</u> Notification of Tier 2 changes for AMWTP and CCP activities for FY12, fourth quarter.</p> <p><u>EPA to DOE January 30, 2013.</u> There were no objections to the fourth quarter Tier 2 changes for AMWTP and CCP activities. Additional documents were requested by EPA.</p> <p><u>DOE to EPA February 6, 2013.</u> DOE provided additional documents requested by EPA during review of the fourth quarter Tier 2 changes for AMWTP and CCP review.</p>
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	FY13 Quarterly Tier 2 reports, first quarter	<p><u>EPA to DOE April 9, 2013.</u> EPA request for additional information prior to approval of first quarter Tier 2 changes.</p> <p><u>DOE to EPA April 18, 2013.</u> DOE response providing additional information requested by EPA for Tier 2 changes.</p> <p><u>EPA to DOE May 29, 2013.</u> EPA approval of the first quarter Tier 2 changes for FY13.</p>
194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP	FY13 Quarterly Tier 2 reports, second quarter	<p><u>DOE to EPA April 25, 2013.</u> Submittal of the Tier 2 changes for AMWTP and CCP activities for the second quarter of FY13.</p> <p><u>EPA to DOE May 28, 2013.</u> EPA request for additional information prior to approval of second quarter Tier 2 changes.</p> <p><u>DOE to EPA June 4, 2013.</u> Submittal of additional information requested by EPA for the second quarter Tier 2 changes.</p>
194.14(b) Design of the Disposal System	Status of Experiments in the WIPP Underground	<p><u>SEGA (Segmented Enriched Germanium Assembly) and MEGA (Multiple Element Germanium Array)</u></p> <p>Scientists continued to operate their experiment, requiring occasional exchanges of bottles</p>



**Table 1: Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4)**

Regulatory Requirements	Implementing Document or Activity that Changed	Description of the Change and DOE Assessment of the Impact of the Change
		<p>filled with liquid nitrogen to cool the detector.</p> <p><u>EXO (Enriched Xenon Observatory)</u>            Components of the experiment continued to be tested, adjusted and data collected. Construction is over 90% complete. Collaborators continue filling the detector with liquid enriched Xenon (80% <sup>136</sup>Xe).</p> <p><u>LBRE (Low Background Radiation Experiment)</u>            These experiments are only monitored during the summer months.</p> <p><u>DMTPC (Dark Matter Time Projection Chamber)</u>            Detectors were operated safely and reliably during the reporting period.</p> <p><u>Salt Disposal Investigations (SDI)/Salt Defense Disposal Investigation (SDDI)</u>            Mining for SDI phase 1 is complete. Mining for SDI phase IIA is 85% complete.</p> <p><u>Intergraded Project Team (IPT)</u>            A team has been put together to look at the science and testing activities at the WIPP site. The IPT is now working on procedures and job hazard analysis (JHAs)/ Automated Job Hazard Analysis (AJHAs) for all experiments.</p>
194.21 Inspections	Continued Compliance Inspection - LANL	<p><u>DOE to EPA July 23, 2012.</u> Response to issue number LANL-CCP-CH-RTR-2012-01CR from the continued compliance inspection of the High Energy Real-Time Radiography Unit (HE-RTR).</p>
	Continued Compliance Inspection – INL	<p><u>DOE to EPA June 26, 2013.</u> Submittal of objective evidence to EPA for CCP-INL continued compliance inspection issue no. INL-CCP-CC-2013-02CR.</p>

**Table 1: Changes in WIPP Conditions or Activities Reportable under Title 40 CFR Section 194.4(b)(4)**

<b>Regulatory Requirements</b>	<b>Implementing Document or Activity that Changed</b>	<b>Description of the Change and DOE Assessment of the Impact of the Change</b>
194.21 Inspections	Subpart A Annual Inspection	<u>EPA to DOE June 6, 2012</u> . Summary of the Annual EPA Subpart A inspection of the WIPP waste management and storage operations, emplacement activities and monitoring program. EPA determined that activities related to emissions monitoring during waste management and storage continue to comply with the requirements of 40 CFR Part 191, Subpart A, monitoring of the ten parameters important to the long-term containment of waste is adequate, and that waste is properly emplaced. EPA docket no. A-98-49; II-B3-125.
194.24 Waste Characterization	Radiological Characterization of TRU Waste	<u>EPA to DOE September 4, 2012</u> . Evaluation of the Analytical Chemistry Laboratory (ACL) located at ANL resulted in numerous technical deficiencies identified, and that no data generated by the ACL after July 31, 2012, can be used by ANL-CCP to characterize WIPP destined TRU waste until deficiencies are addressed and ACL receives EPA approval. EPA Docket No. A-98-49; II-A4-165.
194.24 Waste Characterization	RH TRU Waste Characterization Program Implementation Plan (WCPIP)	<u>DOE to EPA August 16, 2012</u> . Request for approval of the RH TRU WCPIP, Revision 3, Draft E. <u>EPA to DOE September 4, 2012</u> . Approval of the RH TRU WCPIP, DOE/WIPP-02-3214, Revision 3, Draft E, with exceptions.

**Table 2:**

**Procedure Revision Table**

**Table 2: Procedure Revision Table**

Procedure	Revision and Effective Date	Description
WP 08-NT.01, Waste Data System (WDS) Program and Data Management Plan	Rev. 25, July 23, 2012	<ul style="list-style-type: none"> <li>• Revised subsection 4.5 to delete details about remote WDS access and to add information about the available read-only WDS application and database.</li> <li>• Added references to screen-level and context-level online help applications in each subsection of 6.0.</li> <li>• Deleted text in subsections 6.1, 6.2, and 6.3 that described information now found in screen-level and context-level help.</li> <li>• Deleted subsections 6.4-6.7, as information is now found in screen-level and context-level help.</li> </ul>
WP 02-EM3001, Administrative Processes for Environmental Monitoring and Hydrology Programs	Rev. 17, August 21, 2012	<ul style="list-style-type: none"> <li>• Added section 7.0 Process for Repair, Replacement, or Maintenance of Government Owned Monitoring Wells.</li> </ul>
WP 02-PC3003, Compliance Certification/Recertification and PCB Change Screening	Rev. 10, October 22, 2012	<ul style="list-style-type: none"> <li>• Removed any items referencing spill reporting or the activities associated with spill reporting.</li> <li>• Deleted sections 3 and 4 which have been moved to WP 02-EC3506.</li> </ul>
WP 02-PC3004, Compliance Certification/Recertification and PCB Disposal Change Evaluation	Rev. 9, October 22, 2012	<ul style="list-style-type: none"> <li>• Deletion of the reporting requirements for releases and discovered conditions. These items have been moved to WP 02-EC3506.</li> </ul>
WP 02-PC.05, Processing Planned and Unplanned Changes Related to the EPA Compliance Certification Baseline and the WIPP Approval for PCB Disposal	Rev. 3, October 31, 2012	<ul style="list-style-type: none"> <li>• Removed 2.4.1 which has been moved to WP 02-EC3506.</li> <li>• Removed reference to step K of the PCB Conditions of Approval (COA) which has been moved to WP 02-EC3506.</li> <li>• Deleted WP 02-PC3003 and WP 02-PC3004 references which have been moved to WP 02-EC3506.</li> </ul>
WP 02-EC1001, Characterization Sampling, Shipping, and Documentation	Rev. 11, November 5, 2012	<ul style="list-style-type: none"> <li>• Complete rewrite of sections 3.0 through 7.0 to clarify specific sampling requirements.</li> <li>• Addition of section 2.0 to discuss drinking water sampling.</li> </ul>
WP 05-1058, CH Waste Handling Abnormal Operations	Rev. 11, November 30, 2012	<ul style="list-style-type: none"> <li>• Added sections 8.0 (Relocation of Loaded CH Packages from One Trailer to Another Trailer), 9.0 (Relocation of Loaded CH Packages from TRU DOCK to Trailer), and 10.0</li> </ul>

**Table 2: Procedure Revision Table**

Procedure	Revision and Effective Date	Description
		(Reaching Over for Waste Emplacement).
SP 9-7, WIPP Well Water-Level Monitoring	Rev. 6, December 3, 2012	<ul style="list-style-type: none"> <li>• Changes were made to remove specific requirements, guidance and references to in-situ gauges.</li> </ul>
WP 02-EM1010, Field Parameter Measurements and Final Sample Collection	Rev. 1, February 25, 2013	<ul style="list-style-type: none"> <li>• Deleted Section 11.0, <i>Regulatory Review Process</i>.</li> </ul>
WP 12-9, WIPP Emergency Management Program	Rev. 35, February 27, 2013	<ul style="list-style-type: none"> <li>• Clarified sections 1.5, 3.1 and 8.1.</li> <li>• Modified subsection 6.3.1 to address requests for traffic control assistance.</li> <li>• Added required reading of the Emergency Planning Hazards Assessment to the training table in 13.2.</li> </ul>
WP 02-EC3506, Environmental Incident Reporting	Rev. 8, March 26, 2013	<ul style="list-style-type: none"> <li>• Incorporated reporting requirements previously identified in WP 02-PC3003, WP 02-PC3004 and WP 02-PC.05.</li> </ul>
WP 12-HP3400, Contamination Control	Rev. 10, March 27, 2013	<ul style="list-style-type: none"> <li>• Rewrote step 11.0 to list the indicators that trigger a bioassay.</li> </ul>
NP 5-1, Implementing Procedures	Rev. 6, April 3, 2013	<ul style="list-style-type: none"> <li>• This procedure was revised to address and clarify the periodic review process. This revision was based on CBFO Corrective Action Report (CAR) 13-012.</li> </ul>
WP 12-ER4903, Radiological Event Response	Rev. 16, April 25, 2013	<ul style="list-style-type: none"> <li>• Extensive revision to address HS45 Finding 1 Action 2 and HS45 Finding 2. Major changes include: rewrote multiple sections to provide clarification/detailed instructions/updated information for CMRO (Central Monitoring Room Officer), Facility Shift Manager (FSM), RadCon, Waste Handling and other affected individuals and groups.</li> </ul>
WP 05-WH1011, CH Waste Processing	Rev. 48, April 30, 2013	<ul style="list-style-type: none"> <li>• Deleted steps 2.3.15, 2.4.26, 2.5.9 and the Note above step 2.3 pertaining to the crane load limit switch.</li> <li>• Added Notes above steps 2.3 and 2.4 describing the Shadow Board use.</li> <li>• Incorporated Shielded Container Assembly (SCA) information where applicable throughout section 2.0 including</li> </ul>

**Table 2: Procedure Revision Table**

Procedure	Revision and Effective Date	Description
		new steps 2.5.1-2.5.3, and 2.5.26, and new Cautions above steps 2.5.8 and 2.5.36.
WP 05-1025, CH Waste Downloading and Emplacement	Rev. 10, April 30, 2013	<ul style="list-style-type: none"> <li>• Added Note above step 2.24 for emplacing SCA payloads.</li> <li>• Added step 2.26 regarding SCA payloads.</li> <li>• Added Note above step 3.1 for Magnesium Oxide (MgO) on SCA payloads.</li> </ul>
WP 05- 1058, CH Waste Handling Abnormal Operations	Rev. 12, April 30, 2013	<ul style="list-style-type: none"> <li>• Added SCA to step 1.1.2</li> <li>• Added new step 3.1.1, “Obtain concurrence from WHE (Waste Handling Engineer)/ WHM (Waste Handling Manager) and notify U/G (Underground) Services prior to returning waste to the surface.”</li> <li>• Added new step 5.1.2, “Obtain direction from FSM if LCO (Limiting Conditions for Operation) 3.7.1 is to be entered.”</li> </ul>
WP 08-NT.04, Waste Data System Configuration Management and Software	Rev. 21, June 4, 2013	<ul style="list-style-type: none"> <li>• Added language in section 5.3 as a Corrective Action for WIPP Form WF-13-065 to direct creation of test cases for all container types in the WDS.</li> </ul>
SP 12-31, Calibration, Use and Maintenance of the Perkin Elmer Nexlon 300D ICP-MS	Rev. 0, June 19, 2013	<ul style="list-style-type: none"> <li>• This procedure prescribes the SNL process for calibration, operation, and maintenance of the Perkin Elmer Nexlon 300D Inductively Coupled Plasma Mass Spectrometer as part of the laboratory geochemistry research activities in the support of WIPP-related projects.</li> </ul>
WP 05-WH.02, WIPP Waste Handling Operations WDS User’s Manual	Rev. 2, June 24, 2013	<ul style="list-style-type: none"> <li>• Definitions were revised to include SLB2 (Standard Large Box 2), SCA and MgO Target Factor.</li> <li>• Added subsection 3.2.1, “User Accounts and Passwords”.</li> <li>• Replaced figures 3-1, 4-1, 5-1, 5-3, 5-4 and 5-5.</li> <li>• Added subsections 5.1.5 and 5.3 [D] on incorrect information can only be corrected by the DA (Data Administrator).</li> <li>• Revised subsections 5.4.1 [C] to [H] and added [I] through [O] to clarify how to create overpacks in the WDS.</li> </ul>

**Table 2: Procedure Revision Table**

<b>Procedure</b>	<b>Revision and Effective Date</b>	<b>Description</b>
		<ul style="list-style-type: none"><li>• Added to subsection 8.3.4 steps on how to do Waste and MgO emplacement reviews.</li></ul>

**Table 3:**

**Waste Emplacement Summary Report**



**Table 3: Waste Emplacement Summary Report**

(Footnote descriptions can be found on page 19)

<b>TRU Waste Inventory</b>					
	<b>Reporting Period<sup>1</sup> Emplaced Volume (m<sup>3</sup>)</b>		<b>Cumulative<sup>2</sup> Emplaced Volume (m<sup>3</sup>)</b>		
<b>RH TRU</b>	56		337		
<b>CH TRU</b>	4,929		87,032		
<b>Waste Components Inventory</b>					
	<b>Reporting Period<sup>1</sup> Emplaced Mass (kg)</b>	<b>Cumulative<sup>2</sup> Emplaced Mass (kg)</b>	<b>Maximum Emplaced Limiting Value<sup>3</sup> (kg)</b>	<b>Percent of Limiting Value<sup>3</sup> Emplaced</b>	
<b>Cellulose, Plastic, Rubber Materials<sup>4</sup></b>	474,900	8,709,278	22,000,000	39.59%	
	<b>Reporting Period<sup>1</sup> Emplaced Mass (kg)</b>	<b>Cumulative<sup>2</sup> Emplaced Mass (kg)</b>	<b>Minimum Emplacement Limiting Value<sup>3</sup> (kg)</b>	<b>Percent of Limiting Value<sup>3</sup> Emplaced</b>	
<b>Fe-Metals<sup>5</sup></b>	1,856,937	26,621,065	20,000,000	Minimum met	
<b>Non-Fe Metals</b>	29,869	415,968	2,000	Minimum met	
<b>Residual Liquids</b>	Liquid waste is prohibited at the WIPP repository. The total residual liquid in any payload container shall not exceed one percent by volume of that payload container.				
<b>Emplaced Radiological Activity Inventory (curies)</b>					
<b>Radionuclide</b>	<b>Cumulative Activity in FY 2011/2012 Annual Change Report<sup>6</sup></b>	<b>CH Repository Reporting Period Activity<sup>6</sup></b>	<b>RH Repository Reporting Period Activity<sup>6</sup></b>	<b>Total Activity as of June 30, 2013<sup>6</sup></b>	
<sup>241</sup> Am	2.301E+05	2.485E+05	5.630E+02	2.491E+05	
<sup>137</sup> Cs	8.114E+03	1.338E+01	1.254E+04	1.255E+04	
<sup>238</sup> Pu	4.423E+05	4.758E+05	6.610E+02	4.764E+05	
<sup>239</sup> Pu	3.161E+05	3.260E+05	3.197E+02	3.263E+05	
<sup>240</sup> Pu	7.800E+04	8.043E+04	2.455E+02	8.068E+04	
<sup>242</sup> Pu	2.420E+01	2.622E+01	3.526E-01	2.658E+01	
<sup>90</sup> Sr	5.350E+03	1.555E+01	6.768E+03	6.784E+03	
<sup>233</sup> U	6.464E+00	6.357E+00	3.837E-01	6.740E+00	
<sup>234</sup> U	8.092E+01	8.572E+01	9.355E-01	8.665E+01	
<sup>238</sup> U	1.690E+01	1.734E+01	3.637E-02	1.737E+01	
<b>Total</b>	<b>1.080E+06</b>	<b>1.131E+06</b>	<b>2.110E+04</b>	<b>1.152E+06</b>	

**Table 3: Waste Emplacement Summary Report**

(Footnote descriptions can be found on page 19)

<b>Magnesium Oxide (MgO)<sup>7</sup> and Cellulose, Plastic and Rubber (CPR) Mass Emplaced Per Waste Panel</b>				
<b>Panel</b>	<b>Room</b>	<b>MgO (kg)</b>	<b>CPR* (kg)</b>	<b>Excess Factor</b>
1	all	4,482,355	1,237,732	1.87 <sup>8</sup>
2	2-7	5,972,300	1,241,928	2.26 <sup>8</sup>
2	1	691,515	186,200	1.71
3	7	960,120	104,831	4.03
3	6	954,405	228,033	1.95
3	5	1,022,985	284,651	1.70
3	4	960,120	255,054	1.79
3	3	931,545	243,860	1.89
3	2	944,880	227,889	2.03
3	1	662,940	183,072	1.76
4	7	942,975	248,903	1.90
4	6	925,830	267,494	1.71
4	5	948,690	265,302	1.71
4	4	1,049,655	290,739	1.76
4	3	1,015,365	285,755	1.70
4	2	931,545	374,327	1.22 <sup>7</sup>
4	1	668,655	265,884	1.23
5	7	937,260	353,262	1.28
5	6	875,477	140,009	2.85
5	5	782,346	298,808	1.24
5	4	737,167	225,425	1.64
5	3	714,286	215,937	1.61
5	2	730,612	194,045	1.84
5	1	485,714	135,742	1.75
6	7	744,218	167,581	2.11
6	6	666,667	189,857	1.74
6	5	474,294	203,473	1.24
6	4	471,586	202,410	1.25
6	3	406,533	171,306	1.25
6	2	34,288	11,237	1.44
6	1	0	1,181	*.00

### Table 3: Waste Emplacement Summary Report

(Footnote descriptions can be found on page 19)

Footnotes
1. Reporting Period includes emplacement that occurred between July 1, 2012, and June 30, 2013.
2. Cumulative period includes from the beginning of emplacement until June 30, 2013.
3. Limiting Value—Values from CRA 2009 Section 24. These values are based on inventory assumptions.
4. Cellulose, Plastic, Rubber Materials (CPR) includes CPR within the waste, container materials and emplacement materials.
5. Fe-Metals include both materials in the waste and containers in total.
6. There is no decay correction for the listed isotope activities.
7. New minimum value for excess factor of MgO to be implemented as approved by EPA (February 11, 2008) reduces excess factor from 1.67 to 1.20 and ensures minimum reactivity of 94%.
8. MgO, CPR and Excess Factor results for all of panel 1 and rooms 2-7 of panel 2 have been recalculated to replace averaged data with actual emplaced data.

#### \* Note

Waste emplacement is a three-step process. The first step is emplacement of RH waste into the walls of the emplacement room. The second step involves CH waste emplacement into the room. The third step involves emplacement of MgO onto the waste stacks as each row is completed and the MgO calculations are performed.

**Table 4:**

**Performance Assessment, Software, and Hardware Changes**

**Table 4: Performance Assessment Software, and Hardware Changes**

<b>WIPP Use Codes/Software and Code Version</b>	<b>Version Date</b>	<b>Description</b>	<b>New Code Version</b>
GROPECDB 2.12	10/16/12	GROPECDB 2.12 was ported to the new Solaris computer system.	GROPECDB 2.13
GENMESH 6.08	10/24/12	GENMESH 6.08 was ported to the new Solaris computer system.	GENMESH 6.09
ICSET 2.22	10/25/12	ICSET 2.22 was ported to the new Solaris computer system.	ICSET 2.23
RELATE 1.43	10/25/12	RELATE 1.43 was ported to the new Solaris computer system.	RELATE 1.45
ALGEBRACDB 2.35	10/31/12	ALGEBRACDB 2.35 was ported to the new Solaris computer system.	ALGEBRACDB 2.36
PRECCDFGF 1.01	11/19/12	PRECCDFGF 1.01 was ported to the new Solaris computer system.	PRECCDFGF 1.06
PANEL 4.03	11/27/12	PANEL 4.03 was ported to the new Solaris computer system.	PANEL 4.04
CCDFGF 5.02	11/28/12	CCDFGF 5.02 was ported to the new Solaris computer system.	CCDFGF 5.03
SUMMARIZE 3.01	12/12/12	SUMMARIZE 3.01 was ported to the new Solaris computer system.	SUMMARIZE 3.02
MATSET 9.20	12/12/12	MATSET 9.20 was ported to the new Solaris computer system.	MATSET 9.21
PREBRAG 8.00	01/14/13	PREBRAG 8.00 was modified to work with the new BRAGFLO 6.02.	PREBRAG 8.02

**Table 4: Performance Assessment Software, and Hardware Changes**

<b>WIPP Use Codes/Software and Code Version</b>	<b>Version Date</b>	<b>Description</b>	<b>New Code Version</b>
BRAGFLO 6.0	1/14/13	BRAGFLO 6.0 was updated to include the reaction of hydromagnesite to magnesite.	BRAGFLO 6.02
POSTBRAG 4.00a	1/31/13	POSTBRAG 4.00a was ported to the new Solaris computer system.	POSTBRAG 4.02
BRAGFLO 6.02	3/13/13	BRAGFLO 6.02 was ported to the new Solaris computer system.	BRAGFLO 6.03
PREBRAG 8.02	3/18/13	PREBRAG 8.02 was ported to the new Solaris computer system.	PREBRAG 8.02
CUTTINGS_S 6.02	3/19/13	CUTTINGS_S 6.02 was ported to the new Solaris computer system.	CUTTINGS_S 6.03
PRELHS 2.40	4/1/13	PRELHS 2.40 was ported to the new Solaris computer system.	PRELHS 2.41
POSTLHS 4.07A	4/1/13	POSTLHS 4.07A was ported to the new Solaris computer system.	POSTLHS 4.08
LHS 2.42	5/28/13	LHS 2.42 was ported to the new Solaris computer system.	LHS 2.43
NUTS 2.05C	6/25/13	NUTS 2.05C was ported to the new Solaris computer system.	NUTS 2.06

**Table 5:**

**Passive Institutional Controls Activity**

**Table 5: Passive Institutional Controls Activity**

<b>Date</b>	<b>Description of Activity</b>
September 14, 2012	CBFO members attended, via teleconference, the third Records, Knowledge and Memory (RK&M) workshop held by the Nuclear Energy Agency (NEA) in Paris, France. Both Abe Van Luik and Russ Patterson gave presentations, one on the tsunami stones in Japan and the second on the current WIPP Passive Institutional Controls (PICs) program which includes record archives. The group agreed that the final products of the RK&M group should be the preservation of records, knowledge and memory only. RK&M will also include helping future generations make informed decisions.
June 2013	CBFO distributed an international call for papers and presentations to be given at Waste Management Symposium 2014. Both a panel session and an oral/poster session on RK&M for geologic repositories of nuclear waste will be offered. These sessions will be used by CBFO to gather information to revise the WIPP PICs conceptual model and establish an Expert Judgment based upon the international consensus for all geologic repositories of nuclear waste.



**Table 6:**

**EPA Waste Characterization Inspections – January 2008 to June 2013**

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
<b>Advanced Mixed Waste Treatment Plant (AMWTP)/Accelerated Retrieval Project (ARP)</b>	March 2, 2010, Desk-top evaluation	Tier 1 evaluation adding BN510 waste stream	EPA Docket No. A-98-49; II-14-127, June 10, 2010
	November 17-18, 2010	EPA unannounced continued compliance inspection	EPA Docket No. A-98-49; II-A4-143, March 16, 2011
	October 30 to November 1, 2012, and February 26, 2013	EPA Continued Compliance Inspection	EPA Docket No. A-98-49; II-A4-173, April 25, 2013
<b>Argonne National Laboratory-Illinois (ANL)</b>	May 28, 2008	Tier 1 SRS-CCP RH Visual Examination (VE) newly packaged waste	EPA Docket No. A-98-49; II-A4-102, July 10, 2008
	May 20-21, 2010, Desk-top evaluation	Tier 1 SRS-CCP addition of 30 containers to AERHDM waste stream	EPA Docket No. A-98-49; II-A4-132, September 13, 2010
	June 29, 2010, Desk-top evaluation	Tier 1 SRS-CCP addition of 120 containers to AERHDM waste stream	EPA Docket No. A-98-49; II-A4-134, September 28, 2010
	May 4 & 18, 2010 EPA Inspection	Tier 1 SRS-CCP addition of 30-gallon containers of Fuel Examination Waste (FEW) to previously approved RH debris AERHDM waste stream	EPA Docket No. A-98-49; II-A4-140, November 22, 2010
	September 2011 EPA Inspection	Tier 1 to add eight 55-gallon K-Wing FEW containers to RH debris waste stream AERHDM	EPA Docket No. A-98-49, II-A4-158, February 13, 2012
	January 3, 2012	Tier 1 to evaluate Radiation	EPA Docket No. A-98-49: II-A4-162, June 14, 2012

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
	EPA Inspection (11-2060)	Characterization Approach of Solidified Liquid Waste from K-Wing, Building 205, 55- gallon	
	February – June, 2012 EPA Inspection Desk-top Review	Tier 1 debris from the RERTR program and the second batch of FEW packaged in 30-gallon containers	EPA Docket No. A-98-49; II-A4-140, October 4, 2012
	February – June, 2012 EPA Inspection	Tier 1 to evaluate solidified liquid waste from K-Wing, Bld. 205, 55-gallon drum	EPA Docket No. A-98-49; II-A4-162, June 14, 2012
	May 8-9, 2012 EPA Inspection	Tier 1 to include Lot 2 waste ID-ANLE-S5000	EPA Docket No. A-98-49; II-A4-163, July 25, 2012
	EPA Inspection July 31-August 1, 2012	Tier 1 of the analytical chemistry lab (ACL)	EPA Docket No. A-98-49; II-A4-165, September 4, 2012
	September, 2012 EPA Desktop Evaluation	Tier 1 evaluation of waste stream AERHDM Reduced Enrichment Research and Test Reactor (RERTR) and second batch debris (bld. 212, 30-gallon container)	EPA Docket No. A-98-49; II-A4-167, October 4, 2012
<b>Bettis Atomic Power Laboratory (BAPL)</b>	August 30, 2010, September 23, 2010, December 8, 2010 and April 12-13, 2011 EPA Baseline Inspection –	EPA Baseline Inspection No. EPA-BAPL-CCP-RH-04.11-8	EPA Docket No. A-98-49; II-A4-151, July 2011
<b>General Electric</b>	December 2-4, 2008	CCP RH Initial Certification	EPA Docket No. A-98-49; II-A4-115, August 26, 2009

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
<b>Vallecitos Nuclear Center (GEVNC)</b>			
<b>Hanford</b>	April 27-29, 2010	CH Baseline Inspection	EPA Docket No. A-98-49; II-A4-138, December 21, 2010
<b>Idaho National Laboratory (INL)</b>	June 9, 2008, Desk-top evaluation	Tier 1 Waste Area Groups (WAGS) density range extension	EPA Docket No. A-98-49; II-A4-107, October 7, 2008
	December 9-11, 2008	Tier 1 addition of VE CH S5000 retrievably stored waste stream	EPA Docket No. A-98-49; II-A4-110, March 4, 2009
	December 8-9, 2009	Tier 1 addition of ID-HFEF-S5400-RH Lot 1A and ID-ANLE-S5000 waste streams	EPA Docket No. A-98-49; II-A4-122, February 1, 2010
	April-May 2010 Desk-top evaluation	Tier 1 addition of ID-MFC-S5400-RH waste stream	EPA Docket No. A-98-49; II-A4-126, June 11, 2010
	December 8-9, 2009, January 12-13, 2010, and February 17, 2010	Tier 1 addition of ID-INTEC-RH waste stream	EPA Docket No. A-98-49; II-A4-130, August 17, 2010
	July 13, 2009, to June 2010 Desk-top evaluation	Tier 1 addition of Osprey and ID-HFEF-S5400-RH Lot 1B waste stream	EPA Docket No. A-98-49; II-A4-131, August 23, 2010
	July 1, 2009 Desk-top evaluation	Tier 1 High Efficiency Neutron Counter (HENC) operating range extension	EPA Docket No. A-98-49; II-A4-119, September 22, 2010
	September 22, 2009	Tier 1 addition of ID-RTC-S3000 waste stream	EPA Docket No. A-98-49; II-A4-137, November 1, 2010
	August 9-10, 2010	Tier 1 addition of	EPA Docket No. A-98-49; II-A4-135, November 1, 2010

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
		IN-ID-NRF-153 waste stream	
	November 16-17, 2010	Continued Compliance Inspection	EPA Docket No. A-98-49; II-A4-142, March 16, 2011
	October 4-5, 2011	Tier 1 to include RH waste stream IN-ID-NRF-SPC	EPA Docket No. A-98-49; II-A4-159, March 12, 2012
	May 8-9, 2012	Tier 1 radiation approach of 48 additional canisters for waste stream ID-ANLE-S5000 AERHDM (Lot 2)	EPA Docket No. A-98-49; II-A4-163, July 25, 2012
	February, 2013	Tier 1 evaluate SGRS new calibration	EPA Docket No. A-98-49; II-A4-172, February 26, 2013
	May 7-9, 2013	Continued Compliance Inspection	Report Pending
<b>Los Alamos National Laboratory (LANL)</b>	May 8-10, 2007	Initial RH Certification	EPA Docket No. A-98-49; II-A4-96, February 19, 2008
	May 25-26, 2010	Tier 1 HENC unit 2 Report (non-approval)	EPA Docket No. A-98-49; II-A4-139, November 8, 2010
	May 25-26, 2010	LANL-CCP CH TRU Continued Compliance Inspection	EPA Docket No. A-98-49; II-A4-141, February 9, 2011
	April 28, 2010 (10-0810)	CH Tier 1 request expanding the calibration range to the HENC unit 2 to accommodate CH lead-lined 55- gallon drums	EPA Docket No. A-98-49; II-A4-139, April 30, 2012
	June 20-21, 2012	CH Tier 1 request for calibration range extension for the Super HENC and the	EPA Docket No. A-98-49; II-A4-164, August 14, 2012

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
		extend ability for the HENC unit 1 to assay lead-lined 55-gallon drums containing solidified materials	
	September – November, 2012	Tier 1 approval to add summary category group S4000	EPA Docket No. A-98-49; II-A4-168, December 31, 2012
	June 4-5, 2013	Tier 1 to include the MILCC	Report Pending
<b>Oak Ridge National Laboratory (ORNL)</b>	June 2007	CH Baseline Inspection	EPA Docket No. A-98-49; II-A4-103, August 25, 2008
	(Desk-top evaluation)	Tier 1 CH Calibration Extension for segmented gamma scanner (SGS)	EPA Docket No. A-98-49; II-A4-108, October 8, 2008
	November 17, 2008	Tier 1 CH Calibration Extension for Drum Waste Assay System (DWAS) Imaging Passive Active Neutron (IPAN)	EPA Docket No. A-98-49; II-A4-109, January 8, 2009
	June 30-July 2, 2008	EPA RH Baseline Inspection No. EPA-ORNL-CCP-RH-06.08-8	EPA Docket No. A-98-49; II-A4-111, February 3, 2009
	May 6, 2009	Tier 1 OR-REDC-RH-HET to include Solvent Extraction Test Facility (SETF) Time Period (November 1978-November 1991) waste	EPA Docket No. A-98-49;II-A4-120, November 30, 2009
	August 11-12, 2009	Tier 1 addition of CH S4000 SCG waste	EPA Docket No. A-98-49; II-A4-117, October 7, 2009
	February 23-24, 2010	Tier 1 addition of CH VE and adding the IQ3	EPA Docket No. A-98-49; II-A4-125, March 30, 2010
	February-March,	Tier 1 addition of RH SETF	EPA Docket No. A-98-49; II-A4-124, April 21, 2010

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
	2010 Desk-top evaluation	Pre-79 waste stream	
<b>Sandia National Laboratory (SNL)</b>	December, 2011- January, 2012	Tier 1 to include RH containers generated from waste groups PKE00027/54 and PKE00047 to existing waste stream SNL-HCF-S5400-RH	EPA Docket No. A-98-49; II-A4-160, March 28, 2012
<b>Savannah River Site (SRS)</b>	July 17-19, 2007, July 31-August 2, 2007, and December 4-5, 2007	Tier 1 addition of SRS Battelle Columbus Laboratory (BCL) waste stream SR-RL-BCLDP.001	EPA Docket No. A-98-49; II-A4-104, August 25, 2008
	March 24-26, 2009	Tier 1 addition of Non-destructive Assay Box Counter (NABC)	EPA Docket No. A-98-49; II-A4-114, August 4, 2009
	September 30, 2010 Desk-top evaluation	Tier 1 addition of CH S3000 waste	EPA Docket No. A-98-49; II-A4-123, March 23, 2010
	November 2009 – March 2010	Tier 1 addition of SR-BCLDP.001.001, SR-BCLDP.001.002, SR-BCLDP.002, SR-BCLDP.003, SR-BCLDP.004.002, SR-BCLDP.004.003 waste streams	EPA Docket No. A-98-49; II-A4-129, September 13, 2010
	March 24-26, 2009	Tier 1 extension of calibration to the NABC	EPA Docket No. A-98-49; II-A4-133, September 14, 2010
	May 12, 2011 timeframe, EPA Desk-top evaluation	Tier 1 allowing use of American Society for Testing and Materials (ASTM) standard efficiency	EPA Docket No. A-98-49; II-A4-148, May 31, 2011

**Table 6: EPA Waste Characterization Inspections**

<b>Generator Site</b>	<b>Date of Inspection</b>	<b>EPA Inspection No./Tier 1 Evaluation</b>	<b>Docket Number/Approval Date</b>
		calibration method for NABC	
	July 26, 2011 (11-1419)	RH EPA Baseline adding SR-RH-FBL.01 (remainder of RH at SRS)	EPA Docket No. A-98-49; II-A4-161, April 18, 2012
	August 14-15, 2012	Tier 1 request for using five-foot setback configuration of the NABC	EPA Docket No. A-98-49; II-A4-166, September 11, 2012
	February, 2013	Tier 1 to evaluate waste stream SR-RH-235F.01	EPA Docket No. A-98-49; II-A4-170, February 12, 2013



**Table 7:**

**EPA Quality Assurance Audits by Site – January 2008 to June 2013**

**Table 7: EPA Quality Assurance Audits by Site**

<b>Site</b>	<b>Date</b>	<b>Purpose</b>
<b>Advance Mixed Waste Treatment Plant</b>	August 18-20, 2009	Recertification Audit A-09-19
	August 23-26, 2010	Recertification Audit A-10-24
	November 1-3, 2011	Recertification Audit A-12-03
	October 15-18, 2012	Recertification Audit A-13-01
<b>Argonne National Laboratory East-CCP</b>	July 10, 2008	RH VE Newly Packaged Waste Audit A-08-03
	August 5-7, 2008	CCP RH Recertification Audit A-08-24
	August 4-6, 2009	CCP RH Recertification Audit A-09-21
	August 3-5, 2010	CCP RH Recertification Audit A-10-23
	August 2-4, 2011	CCP RH Recertification Audit A-11-20
	August 28-30, 2012	CCP RH Recertification Audit A-12-16
	December 19, 2012	CCP Recertification Audit A-12-16
<b>Bettis Atomic Power Laboratory (BAPL)</b>	April 19-21, 2011	Initial Certification Audit A-11-12
	April 24-26, 2012	Closeout Audit A-12-10
<b>Carlsbad Field Office</b>	June 29-July 1, 2010 August 3-4, 2010	Audit of the DOE Peer Review used to qualify historical information for TRU waste streams SR-BCLDP-004.002 and SR-BCLDP-004.003. EPA Docket No. A-98-49; II-A1-108.
	April 8-29, 2013	Remote records audit of CBFO technical assistance contractor
<b>General Electric Vallecitos Nuclear Center (GEVNC)-CCP</b>	December 2-4, 2008	Initial RH S5000 Certification Audit A-09-05
	January 26-28, 2010	Recertification Audit A-10-04
<b>Hanford-CCP</b>	April 6-8, 2010	Initial Certification Audit A-10-07
	April 5-7, 2011	Recertification Audit A-11-10
	May 14-17, 2012	Recertification/Closeout Audit A-12-11
	May 14-16, 2013	Recertification Audit A-13-15
<b>Idaho National Laboratory- (INL) CCP</b>	January 29-30, 2008	Expansion Audit (NMED approval of Acceptable Knowledge (AK)) Audit A-08-11
	May 13-15, 2008	Recertification Audit A-08-10 INL and A-08-22 ID Labs
	December 9-11, 2008	VE of Records Audit A-09-08
	May 5-7, 2009	Recertification Audit A-09-14 INL and A-09-13 ID Labs
	June 8-10, 2010	Recertification Audit A-10-16 INL and A-10-17 ID Labs

**Table 7: EPA Quality Assurance Audits by Site**

<b>Site</b>	<b>Date</b>	<b>Purpose</b>
	June 7-9, 2011	Recertification Audit A-11-13 INL Labs and A-11-14 INL
	June 11-14, 2012	Laboratory Recertification Audit A-12-14 and CCP Recertification Audit A-12-13
	June 3-6, 2013	Recertification Audit A-13-18
	June 9-11, 2013	Laboratory Close Out Audit A-13-19
<b>Los Alamos National Laboratory-CCP</b>	February 19, 2008	Initial Certification Audit A-07-12 and A-07-13
	April 15-17, 2008	CCP CH and RH Recertification Audit A-08-16
	December 9-11, 2008	Addition of VE CH S5000 Retrievably Stored Waste Audit A-09-08
	April 7-9, 2009	CCP CH and RH Recertification Audit A-09-12
	April 27-29, 2010	CCP CH and RH Recertification Audit A-10-14
	May 17-19, 2011	CCP CH and RH Recertification Audit A-11-11
	July 24-26, 2012	CCP CH and RH Recertification Audit A-12-12
<b>Oak Ridge National Laboratory-CCP</b>	November 13-15, 2007	AK and NDA Activities Audit A-08-06
	June 30-July 2, 2008	Initial RH Certification Audit A-08-12
	January 13-15, 2009	CH Recertification Audit A-09-07
	June 23-25, 2009	RH Recertification Audit A-09-22
	July 28-30, 2009	Addition of S4000 SCG Audit A-09-24
	February 9-11, 2010	CH and RH Recertification Audit A-10-08
	February 8-10, 2011	CH and RH Recertification Audit A-11-08
	March 27-29, 2012	CH and RH Recertification Audit A-12-08
	April 23-25, 2013	CH and RH Recertification Audit A-13-12
<b>Savannah River Site-CCP</b>	October 28-30, 2008	CH and RH Recertification Audit A-09-01
	March 24-26, 2009	Addition of NABC Audit A-09-17
	June 23-24, 2009	Addition of Real-time Radiography (RTR) #4 Audit A-09-16
	October 27-29, 2009	BCL RH Recertification and CH S3000 Initial Certification Audit A-10-01
	October 26-28, 2010	Recertification Audit A-11-01 and RTR Unit 4 for SLB2s and LCNDE for SWBs and SLB2s.
	November 6-8, 2012	CCP Recertification Audit A-12-02
<b>Sandia National Laboratories - CCP</b>	July 13-15, 2011	Recertification Audit A-11-23
	August 14-16, 2012	Closeout Audit A-12-15

**Summary**

The DOE believes the changes reported in this version of the WIPP Change Report do not represent significant changes pertaining to the disposal system.

**References**

Letter from Reyes (EPA) to Moody (DOE), March 7, 2008. Passive Institutional Controls update.

EPA request, July 29, 2010. Addition of Tables 6 and 7 to the Annual Change Report.

Letter from Reyes (EPA) to Moody (DOE), February 11, 2008. Reduction of MgO excess factor from 1.67 to 1.20.