

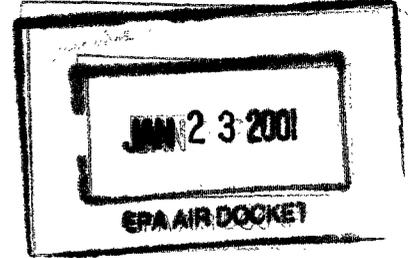


Department of Energy

Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221
November 13, 2000

4-98-49
#-B2-8

Mr. Steven D. Page, Director
Office of Radiation and Indoor Air (6601J)
U.S. Environmental Protection Agency
501 Third Street, Northwest, 6th Floor
Washington, DC 20460



Dear Mr. Page:

This letter and the attached tables constitutes the Department of Energy, Carlsbad Field Office's (CBFO) annual report to the Environmental Protection Agency's (EPA) Administrator on non-significant changes in activities or conditions that pertain to the Waste Isolation Pilot Plant (WIPP) disposal system which have occurred since the DOE submitted the change report on November 10, 1999.

This report is required by 40 CFR 194.4(b)(4), which states:

"No later than six months after the Administrator issues an 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 40 CFR 194.4 conditions for certification are aimed at ensuring EPA is informed of changes from the most recent compliance certification application that pertain to the WIPP disposal system as they occur (or are expected to occur). If the changes are planned, and significant, they must be reported to EPA prior to implementation. A report would be made to EPA within 24 hours or 10 days for significant unplanned changes, consistent with the requirements of 40 CFR 194.4(b)(3). If the changes are not significant they must be reported annually. To date, there have been no significant changes to the basis of the original certification and no changes have been reported to the EPA under 40 CFR 194.4(b)(3).

The CBFO continually reviews changes in activities or conditions as described in the most recent compliance application (Docket A-93-02: Categories II-G and I) and screens actual and proposed changes to see if they are significant, and might require reporting under 40 CFR 194.4(b)(3). As indicated above, the CBFO identified no significant changes during the time period covered by this report.

The attachments list those items the CBFO identified under 40 CFR 194.4(b)(4). The majority of changes described in this report are associated with modifications to written plans and procedures utilized to maintain compliance with the Certification. The CBFO has reported changes that occurred between September 16, 1999 and September 15, 2000 in this report. The next annual report will describe relevant changes that occur between September 16, 2000 and September 15, 2001.

This submittal contains three tables:

Table 1, Changes in WIPP Conditions or Activities Reportable under 40 CFR 194.4(b)(4), was developed using 40 CFR 194 and a review of relevant commitments made in the CCA.

Table 2, Nuclear Waste Management QA Procedures (NP) Revisions Table, was constructed to document the changes that have occurred to Sandia National Laboratories' NPs during the reporting period.

Table 3 WIPP Waste Information System (WWIS) Revisions Table, was constructed to document the changes that have occurred to the WWIS implementing procedures during the reporting period.

The CBFO has not included administrative changes to procedures in this report. Examples of administrative changes to procedures that were not included are editorial changes, reformatting to conform to formatting requirements of applicable procedures, correcting the title of references, correcting internal inconsistency within a procedure, and other changes that do not change the substance or intent of the document. The WIPP Hazardous Waste Permit, US EPA No. NM4890139088, was issued October 27, 1999. Changes to the implementing and/or supporting documents for the permit that affected documents related to 40CFR191 or 40CFR194 were conveyed to the EPA during the reporting period.

Planned changes under 40 CFR 194.4(b)(4) that are currently being considered and therefore, may be implemented in the foreseeable future include:

Performance of waste confirmation activities at the WIPP using digital radiography / computed tomography and headspace gas analysis. The implementation of these changes is dependent on the approval of modifications to the Hazardous Waste Facility Permit.

Proposed changes to the schedule for completing Passive Institutional Controls. These changes are expected to delay some design and test portions of the schedule, however the proposed schedule will still fulfill Condition 4 of Appendix A, 40 CFR 194.

Mr. S. Page

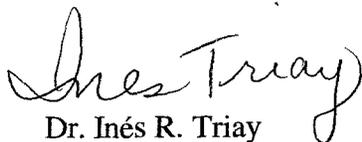
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November 13, 2000

The plugging and abandonment of monitoring wells pursuant to the Borehole Plugging and Abandonment Program Plan and pending approval from the Bureau of Land Management.

If you have any questions related to this report, please contact Ralph Gruebel of my staff at (505) 234-7491.

Sincerely,


Dr. Inés R. Triay
Manager

Enclosures:

Table 1-Changes in WIPP Conditions or Activities Reportable under 40 CFR 194.4(b)(4)

Table 2-NP Revision Table

Table 3-WWIS Revision Table

cc w/enclosure:

H. L. Plum, CBFO

R. Patterson, CBFO

R. G. Gruebel, CBFO

D. Mercer, CBFO

cc w/o enclosure:

D. Kump, WID

B. Howard, SNL

K. Knowles, SNL

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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>194.8 Approval Process for Waste Shipment from Waste Generator Sites for Disposal at the WIPP</p>	<p>Waste Generator Site Certification</p>	<p>The WIPP Hazardous Waste Permit (Permit No. NM4890139088-TSDF) was issued on October 27, 1999 and went into effect on November 26, 1999.</p> <p>The Rocky Flats Environmental Technology Site's (RFETS) quality assurance and waste characterization programs for contact-handled (CH) debris waste were recertified by the Carlsbad Field Office (CBFO) on April 12, 1999. The RFETS quality assurance and waste characterization programs for salt residues were certified by the CBFO on June 3, 1999. The RFETS quality assurance and waste characterization programs for debris were certified as compliant with Attachment B, Waste Analysis Plan (WAP) of the WIPP Hazardous Waste Permit by the CBFO on March 9, 2000.</p> <p>The Idaho National Environmental and Engineering Laboratory's (INEEL) quality assurance and waste characterization programs for graphite waste were recertified by the CBFO on August 20, 1999. The INEEL quality assurance and waste characterization programs for debris were certified as WAP compliant by the CBFO on June 14, 2000.</p> <p>The Hanford Site's quality assurance and waste characterization programs for debris were certified as WAP compliant by the CBFO on May 31, 2000.</p> <p>These certifications by the CBFO [formerly the Carlsbad Area Office (CAO)] and the corresponding field inspections by the EPA (EPA Docket No. A-98-49) do not represent significant changes in activities pertaining to the disposal system.</p>

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.14(b) Design of the Disposal System	Appendix DVR – The Design Validation Report was changed to reflect raising the elevation of a portion of the repository horizon approximately two meters so that the roof is at the Clay Seam G Unit.	<p>The repository horizon in Panels 3, 4, 5, and 9 will be mined approximately two meters above the present interval so that the repository roof is at the Clay Seam G Unit. Geomechanical monitoring and geotechnical modeling of the underground excavations demonstrate that positioning the roof at Clay Seam G provides more stable conditions during mining and waste handling operations. This change reduces the safety risks to underground personnel and reduces maintenance costs.</p> <p>Changing the repository horizon will result in little or no impact to the Performance Assessment, including the results of gas and brine flow modeling. The long-term impact of the change on the WIPP’s containment of radioactive waste will be negligible.</p> <p>This change did not result in significant changes in activities or conditions pertaining to the disposal system.</p>
194.21 Inspections	Implementation of monitoring program pursuant to 40 CFR 194.42 verified by EPA inspection (Docket No: A-98-49, Item: II-B3-12B).	<p>The EPA conducted an inspection of the monitoring program at WIPP in June 2000, to verify that the ten parameters listed in Table 7-7, CCA, Volume 1, Section 7.0 are being monitored. These parameters were identified by analysis pursuant to 40 CFR 194.42 as the parameters that may affect the system’s ability to contain waste or the ability to verify predictions about the future performance of the disposal system and therefore, require monitoring during pre-closure operations.</p> <p>The inspection found that the programs established to monitor the ten parameters during pre-closure operations are being adequately maintained and the results of these monitoring activities are being reported as specified in the CCA.</p> <p>The performance of this inspection and the reported findings did not result in significant changes in activities or conditions pertaining to the disposal system.</p>

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.21 Inspections	Waste Emplacement pursuant to the CCA and associated documents verified by EPA inspection (Docket No: A-98-49, Item: II-B3-12C).	<p>The EPA conducted an inspection of WIPP in June 2000 to determine whether wastes sent to WIPP since the last inspection (September 1999) have been emplaced in the underground facility in the manner specified in the CCA (EPA Air Docket A-93-02, Item II-G-01, and associated documents). The inspection also verified the proper emplacement of backfill material (magnesium oxide) with the waste packages.</p> <p>The inspection found that waste is being emplaced in accordance with commitments made in the CCA.</p> <p>The performance of this inspection and the reported findings did not result in significant changes in activities or conditions pertaining to the disposal system.</p>
194.22(a) Quality Assurance	"Quality Assurance Program Document," CAO 94-1012, Revision 3, November 8, 1999.	<p>The QAPD (Quality Assurance Program Document) was revised to further clarify its scope as a program-wide requirement document. The changes to the document have been limited to those necessary to comply with the Waste Analysis Plan (WAP) in the WIPP Hazardous Waste Permit and to incorporate certain TRU waste QA requirements contained in the CAO QAPP, which was cancelled on December 30, 1999.</p> <p>These changes improve the implementing process while maintaining the same program-wide requirements as the CCA appendix QAPD. The changes did not result in significant changes in activities or conditions pertaining to the disposal system.</p>
194.22(a) Quality Assurance	See Table 2 – NP Revision Table	<p>As reported in the annual report of non-significant changes dated November 10, 1999, the SNL (Sandia National Laboratories) QA (Quality Assurance) program transitioned from a system of QA Procedures (QAP) to an improved system of 16 revised Nuclear Waste Management QA Procedures (NP). The documents listed in Table 2 were modified or generated in response to minor changes and improvements to the SNL WIPP QA Program over this reporting period..</p> <p>These changes implement the same QA program requirements but improve the implementing processes and do not represent significant changes in activities or conditions pertaining to the disposal system.</p>

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.22(a) Quality Assurance	<p>Appendix QAPD – The QA requirements that are applicable to WIPP quality affecting activities are defined in the CBFO QAPD and used to prepare contractor QAPDs.</p> <p>The WID QAPD included in the appendix has changed to Revision 18. “WID Quality Assurance Program Description” WID WP 13-1, Revision 18, March 22,2000.</p>	<p>The WID QAPD (Quality Assurance Program Description) was revised to more effectively implement the requirements of the latest CBFO QAPD (CAO 94-1012, Revision 3, November 8,1999).</p> <p>The changes included updating the WID organization chart and clarification of the responsibilities of WID personnel under this program.</p> <p>Section 1.1.8 was modified to meet the CBFO QAPD requirement for each organization to prepare, submit for review, and maintain a QA implementing procedures matrix. The procedures matrix identifies the documents and their specific sections that implement each applicable requirement of the CBFO QAPD. The matrix is updated as implementation procedures are revised and is used to ensure that the WID QA program meets the applicable requirements of the CAO QA program.</p> <p>The incorporated changes are not significant changes in activities or conditions pertaining to the disposal system.</p>
194.22(a) Quality Assurance	See Table 3 - WIPP Waste Information System (WWIS) Revision Table.	<p>The WWIS program documents were revised to address the requirements in the WIPP Hazardous Waste Permit. Revisions incorporated editorial changes necessary to retain consistent references and minor changes to improve the implementing process.</p> <p>The incorporated changes are not significant changes in activities or conditions pertaining to the disposal system.</p>
194.23 Models and Computer Codes	None	NA

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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>194.24(a) Waste 194.24(b) Characterization 194.24(c)</p>	<p>Appendix WAP – The Waste Analysis Plan prepared for determining the physical and chemical characteristics of the waste in the WIPP RCRA permit application.</p> <p>Appendix WAP has changed to Attachment B, Waste Analysis Plan (WAP) of the WIPP Hazardous Waste Permit (Permit No. NM4890139088-TSDF), November 26, 1999.</p>	<p>The Waste Analysis Plan (WAP) specifies acceptable sampling and analysis techniques and establishes data quality objectives for characterization of CH TRU mixed waste. In addition, the WAP defines the methodology for collecting and using acceptable knowledge in the characterization process.</p> <p>Since the Hazardous Waste Permit prohibits the disposal of remote-handled (RH) TRU waste at WIPP, descriptions of RH TRU mixed waste and Table C-7 of the CCA Appendix WAP (permit application) were removed during the RCRA Part B permitting process.</p> <p>Attachment B1 of the WAP contains the CCA related radiography and VE characterization methods that were in the CAO QAPP prior to its cancellation.</p> <p>The changes to this plan do not represent significant changes in activities or conditions pertaining to the disposal system.</p>
<p>194.24(a) Waste 194.24(b) Characterization 194.24(c)</p>	<p>“Waste Acceptance Criteria for WIPP” DOE/WIPP-069, Revision 5 has changed to Revision 7, “Waste Acceptance Criteria for WIPP” DOE/WIPP-069, November 8, 1999.</p>	<p>The Waste Acceptance Criteria (WAC) was revised to incorporate requirements from the WIPP Hazardous Waste Permit, subsequent permit modifications, and the CAO QAPP prior to its cancellation. The revision process generated a draft WAC Revision 6 prior to the issuance of WAC Revision 7.</p> <p>Because the WIPP is not permitted by the hazardous waste permit to dispose of RH TRU waste, WAC Revision 7 addresses the waste acceptance criteria for contact-handled (CH) TRU waste only.</p> <p>The CCA related NDE and NDA requirements in the QAPP, including QAOs for NDA techniques, were incorporated into Appendix A of the WAC. QAPP Table 9-1, Quality Assurance Objectives for Nondestructive Assay was incorporated into the WAC as Table A-1, Quality Assurance Objectives for Radioassay.</p> <p>The changes to this plan do not represent significant changes in activities or conditions pertaining to the disposal system.</p>

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.24(d) Waste 194.24(e) Characterization 194.24(f)	None	NA
194.25 Future States Assumptions	Borehole Plugging and Abandonment Program Plan, May 1999. This plan implements the plugging and abandoning (P&A) of bore holes and test wells under the jurisdiction of the CBFO.	Three WIPP monitoring wells (WIPP-28, D-268, and H-7A) were plugged and abandoned in accordance with applicable state and federal regulations and chapter 3.3.4 of the CCA. WIPP -28 was plugged and abandoned on December 1, 1999. D-268 was plugged with cement from a total depth of 1,411 feet below ground surface to 225 feet on February 16, 2000 and converted into a livestock water well. H-7A was plugged and abandoned on June 23, 2000. The plugging of these wells was not a significant change in activities or conditions pertaining to the disposal system
194.26 Expert Judgement	None	NA
194.27 Peer Review	None	NA
194.31 Application of Release Limits	None	NA
194.32 Scope of Performance Assessments	None	NA
194.33 Consideration of Drilling Events in Performance Assessments	None	NA
194.34 Results of Performance Assessments	Assessment of the potential impact to the repository of changing the supplier of magnesium oxide (MgO)	The results of the assessment demonstrated that the properties of the new MgO backfill product will perform as represented in the CCA PA calculations. The new MgO product is less dense than the product previously used. The volume of new MgO was increased approximately 2% to ensure the same weight of backfill as stated in the CCA is replaced. The incorporated changes are not significant changes in activities or conditions pertaining to the disposal system.

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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																						
194.34 Results of Performance Assessments	Assessment of the potential impact to the repository of raising the elevation of a portion of the repository horizon approximately two meters so that the roof is at the Clay Seam G Unit.	<p>The results of the assessment demonstrated that raising the elevation of a portion of the repository horizon approximately two meters will result in little or no impact to the Performance Assessment.</p> <p>The effect of this elevation change on PA codes and parameter values is negligible and includes updating the repository grid to account for the new geometry.</p> <p>The change does not represent a significant change in activities or conditions pertaining to the disposal system.</p>																						
194.41 Active Institutional Controls	None	NA																						
194.42(c)Monitoring	Waste Emplacement Inventory as of September 16, 2000.	<p>A summary of the radiological activity for the radionuclides listed in Table 4-10, Chapter 4, CCA is presented below. The inventory includes the curie content of waste that has been emplaced in the repository as of September 16,2000.</p> <table border="1" data-bbox="1034 865 1510 1209"> <thead> <tr> <th><u>Radionuclides</u></th> <th><u>Activity (Ci)</u></th> </tr> </thead> <tbody> <tr> <td>²⁴¹Am</td> <td>5.1953E+03</td> </tr> <tr> <td>²³⁸Pu</td> <td>6.0733E+02</td> </tr> <tr> <td>²³⁹Pu</td> <td>5.0576E+03</td> </tr> <tr> <td>²⁴⁰Pu</td> <td>1.1525E+03</td> </tr> <tr> <td>²⁴²Pu</td> <td>7.4559E-02</td> </tr> <tr> <td>²³³U</td> <td>3.0450E-02</td> </tr> <tr> <td>²³⁴U</td> <td>2.1718E-02</td> </tr> <tr> <td>⁹⁰Sr</td> <td>No Activity Reported</td> </tr> <tr> <td>²³⁸U</td> <td>3.0662E-04</td> </tr> <tr> <td>¹³⁷Cs</td> <td>1.0600E-07</td> </tr> </tbody> </table> <p>The information included is tracked by the WWIS (WIPP Waste Information System) and does not represent significant changes in activities or conditions pertaining to the disposal system.</p>	<u>Radionuclides</u>	<u>Activity (Ci)</u>	²⁴¹ Am	5.1953E+03	²³⁸ Pu	6.0733E+02	²³⁹ Pu	5.0576E+03	²⁴⁰ Pu	1.1525E+03	²⁴² Pu	7.4559E-02	²³³ U	3.0450E-02	²³⁴ U	2.1718E-02	⁹⁰ Sr	No Activity Reported	²³⁸ U	3.0662E-04	¹³⁷ Cs	1.0600E-07
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Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.42(c)Monitoring 194.42(e)	Appendix GWMP – This implementation plan has changed to Revision 5. “WIPP Groundwater Monitoring Program Plan,” WID WP 02-1, Revision 5, November 19, 1999.	The implementation plan was revised to address the requirements in the WIPP Hazardous Waste Permit. The change to this program has no impact on the acquisition of data that pertains to the disposal system and does not represent significant changes in activities or conditions pertaining to the disposal system.
194.42(c)Monitoring 194.42(d) 194.42(e)	“Geotechnical Analysis Report for July 1998 – June 1999,” DOE/WIPP 00-3177, August 2000. This report contains data collected for pre-closure monitoring of disposal system parameters related to Appendix GTMP pursuant to 40 CFR 194.42.	Appendix GTMP contains the geotechnical surveillance program. This program collects information on excavation effects such as creep closure and stresses. The release of this new document and the data it reports are not significant changes in activities or conditions pertaining to the disposal system.
194.42(c)Monitoring 194.42(d) 194.42(e)	“WIPP Subsidence Monument Leveling Survey 1999,” DOE/WIPP 00-2293, October 1999. This report contains data collected for pre-closure monitoring of disposal system parameters related to Appendix SMP pursuant to 40 CFR 194.42.	Appendix SMP contains the subsidence surveillance program. This program monitors the vertical ground movement over the underground excavations at WIPP. The release of this new document and the data it reports are not significant changes in activities or conditions pertaining to the disposal system.
194.42(c)Monitoring 194.42(d) 194.42(e)	“Delaware Basin Monitoring Annual Report,” DOE/WIPP 99-2308, Revision 1, September 2000. This report contains data collected for pre-closure monitoring of disposal system parameters related to Appendix DMP pursuant to 40 CFR 194.42.	Appendix DMP contains information on typical industry practices used for resource extraction in the Delaware Basin at the time the compliance application was prepared pursuant to 40 CFR 194.33. Data and results from the 1999 Delaware Basin Monitoring Program are included in the new document. The program collects resource extraction information for comparison to the parameters and assumptions used to demonstrate that radionuclide releases caused by human intrusion scenarios are below 40 CFR 191.13 containment requirements. The revision of this document and the data it reports are not significant changes in activities or conditions pertaining to the disposal system.

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.42 Monitoring	Appendix SER – The latest site environmental report is for calendar year 1999. "Waste Isolation Pilot Plant Annual Site Environmental Report – Calendar Year 1999," DOE/WIPP 00-2225, September 2000.	<p>Appendix SER was the site environmental report for calendar year 1995. The 1999 annual report has since been published. Data and results from the 1999 WIPP environmental program are included in the new document. The program collects background information for comparison to environmental data collected during waste disposal operations.</p> <p>The release of this new document and the data it reports are not significant changes in activities or conditions pertaining to the disposal system.</p>
194.42 Monitoring	Annual assessment of Compliance Monitoring Parameters (COMP) pursuant to SNL Analysis Plan, AP-069.	<p>During the assessment of the COMP "changes in groundwater flow", the steady-state freshwater head values estimated for eight wells used to monitor Culebra ground water flow were identified as outside the ranges of uncertainty estimated for steady-state conditions at those wells.</p> <p>These steady-state fresh water head values are used to calibrate the Culebra transmissivity (T) fields that were subsequently used to simulate the transport of radionuclides through the Culebra. Since transport through the Culebra is a minor component of the total predicted releases from the repository, these changes in head values have little or no effect on the Culebra modeling in the CCA.</p> <p>The change in Culebra head values is not a significant change in activities or conditions pertaining to the disposal system.</p>
194.43 Passive Institutional Controls	None	NA
194.44 Engineered Barriers	The supplier of the magnesium oxide (MgO) used as backfill in the disposal areas has changed.	<p>Backfill material provided by the new supplier meets the technical criteria established in the specification for MgO (Appendix SCR; backfill physical properties, chemical composition, and exothermic reactions).</p> <p>The change in MgO material and supplier has no impact on the expected performance of the MgO within the repository. This change does not represent a significant change in activities or conditions pertaining to the disposal system.</p>

Table 1: Changes in WIPP Conditions or Activities Reportable under 40 CFR 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
194.45 Consideration of the Presence of Resources	None	NA
194.46 Removal of Waste	None	NA
194.51 Consideration of Protected Individual	None	NA
194.52 Consideration of Exposure Pathways	None	NA
194.53 Consideration of Underground Sources of Drinking Water	None	NA
194.54 Scope of Compliance Assessments	None	NA
194.55 Results of Compliance Assessments	None	NA

Table 2: NP Revision Table

Procedure	Last Revision & Effective Date	Description of Changes since 09-15-99
NP 1-1, Organization and Quality Assurance Program	Rev. 3, 04/28/00	NP 1-1 was revised to remove specific requirements for QA grading of NWMP activities and to clarify the philosophy of QA grading, while providing a pointer to procedure SP 1-1 which defines the QA grading process in detail.
NP 2-1, Qualification and Training	Rev. 4, 05/26/00	NP 2-1 was revised to place more emphasis on NWMP managers determining the minimum education, training, and experience pre-requisites of each job position, and documenting these requirements on the Form NP 2-1-1 (Qualification and Training). Additional emphasis is also placed on the manager evaluating the credentials of employees to ensure their education, training, and experience matches the minimum requirements specified for the position in the Job Description. The process used by the responsible manager to verify an individual's credentials is also clarified.
NP 3-1, Design Control	Rev. 2, 10/13/99	Editorial changes only.
NP 4-1, Procurement	Rev. 3, 07/18/00	NP 4-1 was revised to establish the requirement for a Receipt Inspection Form, establish a process for a quality tracking system, and redefine the process flow for procurement requests.
NP 16-1, Corrective Action	Rev. 2, 11/23/99	NP 16-1 was revised to address additional adequacy issues in the text of the document, rather than just in the Forms (NP 16-1-1, NP 16-1-2, and NP 16-1-3).
NP 19-1, Software	Rev. 5, 07/19/00	NP 19-1 was revised to clarify the intent of retiring software and the criteria for use of independent software. Revision 5 incorporates coding standards in the software lifecycle process through addition of a subsection in the body of the procedure (Section 2.2.7.2.1, Coding Documentation Standards), and through addition of two steps from NP 19-1-8 (Software Installation and Checkout).
NP 20-1, Test Plans	Rev. 3, 11/24/99	NP 20-1 was revised to add "including controls to prevent tampering of data during acquisition and analysis" and clarification to special controls. (Appendix A, Planning Overall Strategy and Process).
SP 1-1, QA Grading	Rev. 1, 07/13/00	New Procedure. This SP was written to define the process, responsibilities, and controls for the determination of the level of quality to be assigned to NWMP activities.

Table 2: NP Revision Table

Procedure	Last Revision & Effective Date	Description of Changes since 09-15-99
SP 9-1, WIPP Performance Assessment Parameter Database	Rev. 1, 08/31/00	SP 9-1 was revised to reflect the new methodology for populating the new SQL database model electronically with data using a tool called PRAMGEN.
SP 9-2, Neutron Probe Testing in the DRZ	Rev. 0, 03/06/00	New procedure. This procedure was written to prescribe the procedure for measuring moisture content in the WIPP underground salt with Troxler Model 3223 Neutron Probes.
SP 9-3, DRZ Acoustic Propagation Test System Operations	Rev. 0, 05/22/00	New procedure for activities to be conducted at the WIPP site.
SP 12-1, Use of Laboratory Balances and Scales	Rev. 0, 08/08/00	New procedure. This SP was written to describe the use of laboratory balances and scales for WIPP work. This procedure replaced Technical Operating Procedures (TOPs) 162, 556, and 572.
SP 13-1, Chain of Custody	Rev. 2, 06/13/00	SP 13-1 was revised to omit the signature of the Originator on SP 13-1-1 Forms. The reason for this revision was that a deficiency was identified during an audit conducted by DOE/CBFO where the Originator did not sign several SP 13-1-1 Forms. CBFO approved this corrective action.
SP 13-2, Logging and Management of WIPP Core Samples	Rev. 0, 03/10/00	New Procedure. This procedure was written to replace TOPs 092 and 093.

Table 3: WWIS Revision Table

Canceled Procedure	New Procedure Incorporating Elements of Canceled Procedure	Last Revision & Effective Date
WID WP 05-WA.01, Revision 3, WIPP TRU Data Management Plan	WID WP 08-NT.01, WIPP Waste Information System Data Management Plan	Rev. 1, 06/21/00
WID WP 05-WA.02, Revision 3, WIPP Waste Information System Program	WID WP 08-NT.02, WIPP Waste Information System Program. This document was combined with WID WP 08-NT.01 on 06/21/00.	
WID WP 05-WA.03, Revision 4, Waste Stream Profile Form Review and Approval Program	WID WP 08-NT.03, Waste Stream Profile Form Review and Approval Program	Rev. 0, 05/01/00
WID WP 05-WA.04, Revision 1, WIPP Waste Information System Software Quality Assurance Program	WID WP 08-NT.04, WIPP Waste Information System Software Quality Assurance Program	Rev. 1, 06/21/00
WID WP 05-WA.05, Revision 0, WIPP Waste Information Systems Software Verification and Validation Plan	WID WP 08-NT.05, WIPP Waste Information System Software Verification and Validation Plan	Rev. 0, 04/27/00
WID WP 05-WA.06, Revision 0, WIPP Waste Information System Software Requirements Specification	WID WP 08-NT.06, WIPP Waste Information System Software Requirements Specification	Rev. 0, 05/01/00
WID WP 05-WA.07, Revision 0, WIPP Waste Information System Software Design Description	WID WP 08-NT.07, WIPP Waste Information System Software Design Description	Rev. 1, 07/24/00
WID WP 05-WA.08, Revision 0, WIPP Waste Information System Configuration Management Plan	WID WP 08-NT.08, WIPP Waste Information System Configuration Management Plan. This document was combined with WID WP 08-NT.04 on 06/21/00.	