



Department of Energy
Carlsbad Field Office
P. O. Box 3090
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July 29, 2008

Mr. Steve Zappe, Project Leader
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Subject: Final Audit Report A-08-12, Remote Handled Certification, Oak Ridge National Laboratory Central Characterization Project

Dear Mr. Zappe:

Enclosed is the final audit report for Oak Ridge National Laboratory Central Characterization Project, Audit A-08-12, of the processes performed to characterize and certify waste as required by Section II.C.2.c of the Waste Isolation Pilot Plant Hazardous Waste Facility Permit. The report contains the results of the remote handled waste certification audit performed for Summary Category Group S5000 debris waste. The audit was conducted June 30 through July 2, 2008.

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Please contact the Carlsbad Field Office Quality Assurance Manager, Ava Holland, at (575) 234-7423, should you have any questions concerning this audit report.

Sincerely,

David C. Moody
Manager

Enclosure



Mr. Steve Zappe

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July 29, 2008

cc: w/Report Narrative

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cc: w/enclosures

WIPP Operating Record, MS: 452-09

CTAC QA File

CBFO M&RC

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*ED – Electronic Distribution

U.S. DEPARTMENT OF ENERGY
CARLSBAD FIELD OFFICE

FINAL AUDIT REPORT

OF THE

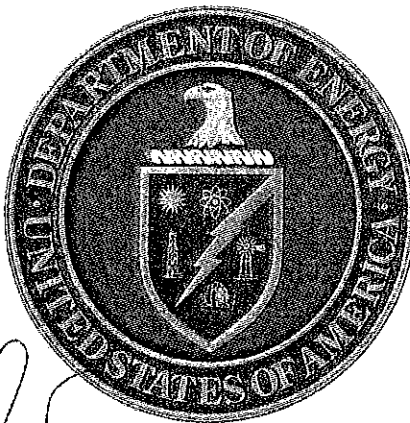
OAK RIDGE NATIONAL LABORATORY (ORNL)
UTILIZING THE
CENTRAL CHARACTERIZATION PROJECT (CCP)

OAK RIDGE, TENNESSEE

AUDIT NUMBER A-08-12

JUNE 30 – JULY 2, 2008

FINAL AUDIT REPORT OF WASTE CHARACTERIZATION IN
ACCORDANCE WITH THE HAZARDOUS WASTE FACILITY PERMIT



Prepared by:

[Signature]

Porf Martinez, CTAG
Audit Team Leader

Date:

7/24/08

Approved by:

[Signature]

Ava Holland, CBFO
Quality Assurance Manager

Date:

7-29-08

1.0 EXECUTIVE SUMMARY

Carlsbad Field Office (CBFO) Certification Audit A-08-12 was conducted to evaluate the adequacy, implementation, and effectiveness of Oak Ridge National Laboratory (ORNL) transuranic (TRU) waste characterization activities performed for remote-handled (RH) Summary Category Group (SCG) S5000 debris waste by the Washington TRU Solutions (WTS) Central Characterization Project (CCP). Activities were evaluated relative to the requirements of the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP) and the *CBFO Quality Assurance Program Document (QAPD)*.

The audit was performed at ORNL June 30 through July 2, 2008. The audit team concluded that overall, the adequacy of the ORNL/CCP technical and Quality Assurance (QA) programs, as applicable to the audited activities, were satisfactory in meeting requirements. The audit team concluded that overall, the defined technical programs for SCG S5000 RH debris waste were being satisfactorily implemented in accordance with CCP-PO-001, *CCP Transuranic Waste Quality Assurance Characterization Project Plan (QAPjP)*, and its implementing procedures, and that the processes were effective.

The audit team also concluded that the ORNL/CCP QA program activities that demonstrate compliance with the HWFP Table B6-1, are being satisfactorily implemented and are effective.

The audit team identified no conditions adverse to quality resulting in the issuance of a corrective action report (CAR).

One deficiency, isolated in nature and requiring only remedial corrective action, was identified and corrected during the audit (CDA) in the area of Acceptable Knowledge (AK). Assignments of waste codes identified in the AK record (from AK Source document C078) were not justified for inclusion in the specific waste stream. ORNL/CCP documented changes in the AK record on discrepancy report DR602. Changes were verified complete prior to the end of the audit. See CDA-1 section 6.2 for details.

No Observations were identified during the audit, and no Recommendations are being offered for management consideration.

2.0 SCOPE AND PURPOSE

2.1 Scope

The audit team evaluated the adequacy, implementation, and effectiveness of the ORNL/CCP TRU waste characterization activities for SCG S5000 RH debris waste stream OR-REDC-RH-HET. The following elements were evaluated:

Quality Assurance

Personnel Qualification and Training
Nonconformances
Records

Technical

Data Validation & Verification (V&V)
Acceptable Knowledge (AK)
Visual Examination (VE)
Waste Certification (e.g., Waste Stream Profile Form)
WIPP Waste Information System (WWIS)

The evaluation of ORNL/CCP TRU waste activities and documents was based on current revisions of the following documents:

Hazardous Waste Facility Permit (HWFP) Waste Isolation Pilot Plant EPA No. NM4890139088-TSDF by the New Mexico Environment Department

CBFO Quality Assurance Program Document (QAPD), DOE/CBFO-94-1012

CCP Transuranic Waste Quality Assurance Characterization Project Plan (QAPjP), CCP-PO-001

Related technical and QA implementing procedures

2.2 Purpose

Audit A-08-12 was conducted to assess the level of compliance of ORNL/CCP waste characterization and certification activities for SCG S5000 RH debris waste stream OR-REDC-RH-HET, as related to the requirements of the HWFP.

3.0 AUDIT TEAM AND OBSERVERS

AUDITORS/TECHNICAL SPECIALISTS

Porf Martinez	Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Jim Schuetz	Auditor, CTAC
Wayne Ledford	Auditor, CTAC
Berry Pace	Auditor, CTAC
Prissy Martinez	Auditor, CTAC
Kirk Kirkes	Technical Specialist, CTAC
Rhett Bradford	Technical Specialist, CTAC
Jim Oliver	Technical Specialist, CTAC
Dick Blauvelt	Technical Specialist, CTAC
Charleen Roberts	Technical Specialist, CTAC

OBSERVERS

Steve Zappe	New Mexico Environment Department (NMED)
Connie Walker	NMED Contractor
J.R. Stroble	CBFO
Greg Huddleston	Pecos Management

4.0 AUDIT PARTICIPANTS

The individuals at ORNL/CCP who were contacted during the audit are identified in Attachment 1. A pre-audit meeting was held in the conference room in Trailer 7880P at the TRU Waste Processing Center in Oak Ridge, Tennessee, on June 30, 2008. Daily meetings were held with ORNL/CCP management and staff to discuss the previous day's issues and potential deficiencies. The audit was concluded with a post-audit meeting held in the conference room in Trailer 7880P at the TRU Waste Processing Center in Oak Ridge, Tennessee, on July 2, 2008.

5.0 SUMMARY OF AUDIT RESULTS

5.1 Program Adequacy, Implementation, and Effectiveness

This audit was performed to assess the ability of ORNL/CCP to characterize RH waste from SCG S5000 debris waste to the requirements specified in the WIPP WAP and the QAPD. The characterization methods assessed were AK and VE. Other processes evaluated were project-level data review and validation, and WWIS data entry. Data quality objective (DQO) reconciliation and the preparation of waste stream profile forms (WSPFs) for RH waste were not available during the audit, although the process was evaluated during ORNL/CCP Audit A-08-04.

The audit team concluded that the applicable ORNL/CCP TRU waste characterization activities, as described in the associated ORNL/CCP implementing procedures, are satisfactory in meeting the requirements of the HWFP. The supporting documentation for the closure of the deficiencies corrected during the audit are contained in Attachment 2. Attachment 3 contains the objective evidence reviewed during the audit. Attachment 4 contains a listing of ORNL/CCP implementing documents and provides additional objective evidence of ORNL/CCP implementation of the appropriate Table B6 WAP requirements. Attachment 5 identifies the processes and equipment audited for certification. Audit activities are described below.

5.2 Technical Activities

Each technical area audited is discussed in detail in the following sections. The method used to select objective evidence is discussed, the objective evidence used to assess compliance with the HWFP is cited briefly (and in detail on the checklist), and the result of the assessment is provided.

5.2.1 Table B6-1, WAP Checklist

The audit was performed to assess ORNL/CCP's ability to manage and perform TRU waste characterization and certification activities for SCG S5000 RH debris waste stream OR-REDC-RH-HET. The B6-1 WAP checklist addresses general program requirements from an overall management perspective. The general requirements checklist addresses both technical requirements and quality assurance programmatic requirements that, when collectively implemented, ensure effective overall management of TRU waste characterization and certification activities. Requirements are integrated into controlled documents that will ensure the waste characterization strategy as defined in the WAP is accomplished and documented in accordance with controlled processes and procedures.

The audit team evaluated both the QA program aspects of the B6-1 checklist and the technical activities defined in the remaining B6 checklists. B6-1 checklist items related to QA program implementation were evaluated by the audit team. The following QA activities, including those required by the B6-1 checklist were evaluated:

- **Personnel Qualification and Training:** The audit team evaluated objective evidence of training of CCP personnel who perform characterization activities of ORNL RH waste containers. A sample of personnel training qualification card files was evaluated for Site Project Manager (SPM), Waste Certification Official (WCO), Waste Certification Associate (WCA), AK Expert (AKE), and VE Operators. The audit team determined that personnel are trained in accordance with procedure and receive WAP, nonconformance reporting, and site-specific RH training. Qualification cards adequately document required reading, on-the-job training, and dated verification and approval signatures. Documents indicate completion of contact-handled (CH) and RH waste training for specific host facilities. The audit team determined that Personnel Qualification and Training as related to the HWFP were adequate, satisfactorily implemented, and effective. No concerns related to personnel qualification and training were identified.
- **QA Records:** The audit team evaluated the quality assurance record program for the ORNL host facility documenting characterization of RH waste containers. CCP has completed a Records Inventory and Disposition Schedule (RIDS) for the ORNL RH host facility and project. Lifetime and non-permanent record retention periods are adequately identified within the RIDS. The audit team evaluated CCP Records Inventory Worksheets. These CCP procedure attachments adequately document identification and classification of all items placed on the RIDS.

ORNL host facility records personnel were interviewed regarding control of in-process records and transmittal of completed records to the CCP project office location. The audit team determined that paper and electronic media records are adequately controlled, inventoried, and transferred. The audit team interviewed other host facility operations personnel to verify that in-process

records are controlled and protected in accordance with records procedures. The sample of records evaluated during the audit provided evidence that corrections and amendments to records were performed in accordance with procedure. The audit team determined that the management of QA Records as related to the HWFP was adequate, satisfactorily implemented, and effective. No concerns related to QA Records were identified.

- **Nonconformance:** The audit team evaluated objective evidence of implementation of the nonconformance reporting (NCR) program associated with ORNL/CCP RH activities. There has been one NCR generated to date at ORNL/CCP relative to WAP requirements related to the RH program. Status of NCRs is tracked using the NCR module of the CCP Data Tracking System (DTS). The audit team determined that management of nonconformances as related to the HWFP was adequate, satisfactorily implemented, and effective. No concerns related to Nonconformance were identified.
- **WWIS:** The audit team evaluated objective evidence of certification of ORNL RH containers and witnessed a demonstration of WWIS data entry. The demonstration included implementation of procedure steps related to selection of containers for RH TRU 72-B waste canister overpack data entry. WWIS data are entered manually into ORNL/CCP RH spreadsheets from record copies of approved characterization batch data reports (BDRs). Spreadsheets are manually reviewed and approved, and then data are electronically transferred into WWIS characterization or certification modules using standard utilities within WWIS. Data used for audit demonstration purposes consisted of simulated data for required data fields. Headspace gas for the demonstration containers has been sampled, but analyses results have not been published. The data demonstration was performed within the test module of the WWIS program, which is adequate to simulate entry into the characterization and/or certification modules of WWIS. The audit team determined that the scope of data entered into the CCP WWIS ORNL RH data spreadsheet is adequate to satisfy requirements for RH characterization and certification. Subsequent data transfer into WWIS satisfies requirements to present data in the format acceptable to WWIS.

Training records were evaluated for CCP personnel entering ORNL RH container data into WWIS. There are currently two WCO personnel qualified to perform ORNL RH data entry and certification activities. WCAs are being qualified to review spreadsheet and WWIS data entry activities. CCP personnel have requested and been granted access to WWIS, including permission for use of the ORNL RH site identification code.

The audit team determined that CCP personnel are capable of identifying required data items, and entering and reviewing actual and simulated RH container data from record sources into the ORNL CCP RH data spreadsheet, and transferring data to the WWIS test module. The audit team also determined that CCP personnel are capable of selecting containers for RH TRU 72-B waste

canister overpack data entry within the WWIS certification module. These capabilities are adequate to allow identification of data items and data entry and transfer into characterization and certification modules, once actual RH container data are generated. The ORNL/CCP WWIS activities were found to be adequate with respect to procedural compliance with requirements, satisfactorily implemented, and effective. No concerns related to WWIS were identified.

Technical activities that were evaluated, including both characterization and certification, included the following: data generation-level and project-level V&V, AK, and VE. Objective evidence was selected and reviewed to evaluate the implementation of the associated characterization activities. BDRs, sampling records, and training documentation for personnel were included in the evaluation. The audit included direct observation of actual waste characterization activities (such as VE and WWIS data entry). Each characterization process involves:

- Collecting raw data
- Collecting quality assurance/quality control (QA/QC) samples or information
- Reducing the data to a useable format, including a standard report
- Review of the report by the data generation facility and the site project office
- Comparing the data against program DQOs
- Reporting the final waste characterization information to WIPP

The flow of data for each characterization technique was reviewed to ensure that all applicable requirements were captured in the site operating procedures. Specific procedures audited and the objective evidence reviewed are described in the following sections.

Objective evidence was reviewed to ensure project-level activities were adequately performed to support waste characterization. BDRs were evaluated based on project-level requirements for the RH S5000 VE activities. The 2008 quarterly repeat data generation-level reviews were not evaluated because all BDRs were completed during the current quarter. There has not been a WSPF and Characterization Information Summary submitted for the ORNL S5000 waste stream at this time.

Headspace Gas Sampling and Analysis were not within the scope of this audit, as these were evaluated during the A-08-04 CH certification audit for ORNL.

The project-level data V&V process was evaluated by reviewing the following BDRs:

RHORVE080002
RHORVE080003
RHORVE080004

Overall, project-level activities were determined to be adequate, satisfactorily implemented, and effective.

5.2.2 Table B6-2, Solids and Soils/Gravel Sampling Checklist

This audit was performed to assess the ability of ORNL/CCP to characterize the SCG S5000 debris waste stream.

ORNL/CCP is not characterizing any S4000 soils/gravel or S3000 homogeneous solids waste streams at this time.

5.2.3 Table B6-3, Acceptable Knowledge

The audit team reviewed the AK record for ORNL/CCP RH TRU debris stream OR-REDC-RH-HET. The audit team reviewed documentation to support WAP B6-3 and B6-1 checklist questions, and compiled and reviewed objective evidence to demonstrate compliance. The objective evidence included the AK Summary Report CCP-AK-ORNL-500 R.0, numerous AK source documents, the Characterization Reconciliation Report and supporting documentation, and VE BDRs for three containers from the waste stream population.

The audit team reviewed the AK Documentation Checklist, attachment 1; the AK Source Document Reference List, attachment 4; the AK Hazardous Constituents List, attachment 5; the AK Waste Form, Waste Material Parameters, Prohibited Items and Packaging, attachment 6; and the AK Container List, attachment 8. Examples of the resolution of AK discrepancies were also collected and examined along with screenshots from the Project Tracking System (PTS) and AK Tracking Spreadsheet databases. The required HGAS sampling and analysis has not yet been completed; however, the audit team reviewed the Random Container Selection reports for sampling lots 1 and 2.

The audit team reported a concern regarding the support in referenced AK Source Documents for the assignment of hazardous constituents and hazardous waste numbers as noted in Table 5-3 of AK Summary CCP-AK-ORNL-500. Specifically, AK Source Document C078 was the only support in the AK record for the presence of 1,1,2-trichloroethane, methyl ethyl ketone, benzene, and selenium in this waste stream. It was not clear from a review of this document that these assignments were justified. The concern was resolved during the audit with the removal of the hazardous waste number for selenium (D10), and the modification of several entries in Table 5-3, including the removal of methyl ethyl ketone, with no other impact on hazardous waste number assignment. See CDA-1 in section 6.2.

Overall, the AK Program was found to be adequate in addressing upper-tier requirements, satisfactory in the implementation of these requirements, and effective in achieving the desired results.

5.2.4 Table B6-4, Headspace Gas

Headspace Gas sampling was not in the scope of this audit. Headspace gas sampling activities for S5000 debris waste were evaluated during ORNL/CCP Audit A-08-04.

5.2.5 Table B6-5, Radiography Checklist

Radiography is not in the scope of this audit. ORNL/CCP is not characterizing any S5000 RH debris waste utilizing RTR at this time.

5.2.6 Table B6-6, Visual Examination

The audit team reviewed implementation of VE operations and collected objective evidence to support the effectiveness of implementation. VE activities were evaluated and verified by conducting personnel interviews, examination of VE personnel training records, and evaluating BDRs and associated documentation.

The audit included the review of Procedure CCP-TP-163, *CCP Standard Visual Examination of Records*, and CCP-TP-500, *RH Waste Visual Examination*. The audit team observed VE operations for RH waste drum ORRH-00015 on July 1, 2008, in the 7880 hot cell. VE operations involve the transfer of RH waste from casks into drums.

CCP Standing Order CCP-SO-ORNL-003 accommodates ORNL/CCP loading of RH waste directly into drums. VE operations at ORNL/CCP utilize a second operator to provide verification by reviewing contents of the waste containers. Three BDRs were examined, as well as training records for three VE operators.

VE operations were found to be adequate, satisfactorily implemented, and effective. No concerns were identified.

6.0 CORRECTIVE ACTIONS, OBSERVATIONS, AND RECOMMENDATIONS

6.1 Corrective Action Reports

During the audit, the audit team may identify conditions adverse to quality (CAQs) and document such conditions on CARs.

Condition Adverse to Quality (CAQ) – Term used in reference to failures, malfunctions, deficiencies, defective items, and nonconformances.

Significant Condition Adverse to Quality – A condition which, if uncorrected, could have a serious effect on safety, operability, waste confinement, TRU waste site certification, compliance demonstration, or the effective implementation of the Quality Assurance (QA) program.

No CARs were issued during Audit A-08-12.

6.2 Deficiencies Corrected During the Audit

During the audit, the audit team may identify CAQs. The audit team members and the Audit Team Leader (ATL) evaluate the CAQs to determine if they are significant.

Once a determination is made that the CAQ is not significant, the audit team member, in conjunction with the ATL, determines if the CAQ is an isolated case requiring only remedial action and therefore can be corrected during the audit. Upon determination that the CAQ is isolated, the audit team member, in conjunction with the ATL, evaluates/verifies any objective evidence/actions submitted or taken by the audited organization and determines if the condition was corrected in an acceptable manner. Once it has been determined that the CAQ has been corrected, the ATL categorizes the condition as a CDA according to the definition below.

CDAs – Isolated deficiencies that do not require a root cause determination or actions to preclude recurrence. Correction of the deficiency can be verified prior to the end of the audit. Examples include one or two minor changes required to correct a procedure (isolated), one or two forms not signed or not dated (isolated), and one or two individuals that have not completed a reading assignment.

One CDA, described below, was identified and corrected during the audit.

CDA-1

CDA-1 was identified during the evaluation of Acceptable Knowledge. AK Source Document C078 was the only reference in the AK record for the presence of 1,1,2-trichloroethane, methyl ethyl ketone, benzene, and selenium in this waste stream. It was not clear from a review of this document that these assignments were justified.

ORNL/CCP AKEs reviewed AK Source Document (C078) and other AK Source Documents used to justify the assignment of all hazardous waste numbers for the subject waste stream. As a result, hazardous waste number D010 (selenium) was removed from this stream. Furthermore, other hazardous constituents including methyl ethyl ketone and mercuric chloride, were removed from Table 5-3 of CCP-AK-ORNL-500. Other appropriate changes were made to this table for constituents not resulting in a hazardous waste number assignment to coincide with the supporting AK documentation. A discrepancy report (DR602) was prepared to document all of these changes. A draft revision of the AK Summary Document, CCP-AK-ORNL-500, rev. 1, draft A, was prepared as well.

The concern was resolved during the audit with the removal of the hazardous waste number for selenium, D10, and the modification of several entries in Table 5-3, including the removal of methyl ethyl ketone, with no other impact on hazardous waste number assignment.

The audit team was able to verify corrective actions were completed prior to the end of the audit.

7.0 SUMMARY OF OBSERVATIONS AND RECOMMENDATIONS

During the audit, the audit team may identify potential problems or suggestions for improvement that should be communicated to the audited organization. The audit team member, in conjunction with the ATL, evaluates these conditions and classifies them as Observations or Recommendations using the following definitions.

Observation – A condition that, if not controlled, could result in a CAQ.

Recommendations – Suggestions that are directed toward identifying opportunities for improvement and enhancing methods of implementing requirements.

Once a determination is made, the audit team member, in conjunction with the ATL, categorizes the condition appropriately.

7.1 Observations

No Observations were provided to ORNL/CCP management as a result of the audit.

7.2 Recommendations

No Recommendations were presented to ORNL/CCP management as a result of this audit.

8.0 LIST OF ATTACHMENTS

- Attachment 1: Personnel Contacted During the Audit
- Attachment 2: Corrective Action Supporting Documentation
- Attachment 3: Objective Evidence
- Attachment 4: Table of Audited Documents
- Attachment 5: List of Processes and Equipment Reviewed

PERSONNEL CONTACTED DURING THE AUDIT

PERSONNEL CONTACTED DURING AUDIT A-08-12				
NAME	ORG/TITLE	PREAUDIT MEETING	CONTACTED DURING AUDIT	POST-AUDIT MEETING
Bob Billett	CCP/WTS Operations Manager	X	X	X
Quincy Carter	TWPC Operations Manager	X		
Don Coffey	TWPC WP Tech Support	X		X
Kevin D. East	TWPC RHL	X		X
Mark Doherty	CCP/Tech Specs AKE	X	X	X
Jerry Erpenbach	TWPC QA Manager	X		X
Rick Fan	DOE/ORO Facility Rep	X		
Edward Feltcorn	EPA Inspector	X		X
Mike Fryberger	EnergX VE Operator		X	
Dorothy Gill	EPA Inspector	X		X
Mary Griffith	CCP/MCS RH DTC Lead Operator	X	X	X
LaTravia Harmon	CCP/NFT HSG Lead Operator	X		X
Jerry Harrey	TWPC ESH&Q	X		
Joe P. Harvill	CCP/WTS NDA Support	X	X	X
Fred Heacker	TWPC Operations Waste Manager	X		
James Holderness	CCP/Holderness & Assoc. Consultant	X	X	
Greg Huddleston	Pecos Management Observer	X		X
Rajani Joglekar	EPA Inspector	X		X
Patrick Kelly	EPA Inspector	X		X
Creta Kirkes	CCP/WTS WWIS WCO/WCA		X	
Bill McMillan	DOE/ORO Federal Program Director	X		

PERSONNEL CONTACTED DURING AUDIT A-08-12

NAME	ORG/TITLE	PREAUDIT MEETING	CONTACTED DURING AUDIT	POST-AUDIT MEETING
Jeri Miles	CCP/Triumph Records Clerk		X	
Shane Miles	VPM / VE Expert	X	X	X
David Moody	CCP/WTS SPM	X	X	X
Dean Mooney	CCP/WTS QA Engineer	X	X	X
Jim Moore	DOE/ORO Contract/Technical Support	X		X
Sheri Nance	CCP/Tech Specs AKE	X	X	X
Hillari J. Neely	CCP/WTS SPM	X	X	X
Kevin Peters	CCP/Tech Specs AKE	X	X	X
Larry Porter	CCP/WTS RH Manager	X	X	X
Anthony Presley	EnergX VE Operator		X	
Irene Quintana	CCP/WTS SPM	X	X	X
Ron Reeves	CCP/WTS Project Manager	X	X	X
Steve Schafer	CCP/Tech Specs AKE	X	X	X
J. R. Stroble	DOE/CBFO RH Certification Observer	X		X
C. A. Thompson	TWPC Director Facility Management	X		X
Pat Tilmon	CCP CH VPM	X		X
Tess Tipton	TWPC Document Control Records Manager	X		
Jene Vance	CCP/Vance & Assoc. Consultant	X	X	
Louis Wade	CCP/WTS QA Engineer	X	X	X
Connie Walker	EPA Inspector / NMED Observer	X		
Lisa Watson	CCP/WTS AKE	X	X	X
Ronald Whitson	CCP/MCS RH DTC Lead Operator	X	X	X
Steve Zappe	NMED Observer			X

Personnel Contacted During the Audit by Area

Training	Dean Mooney
QA Records	Jeri Miles
Nonconformances	Dean Mooney
WIPP Waste Information System (WWIS Data Entry)	Creta Kirkes
Project Level Validation & Verification	Irene Quintana Larry Porter Hillary Neely
Acceptable Knowledge	Lisa Watson Kevin Peters Sheri Nance Mark Doherty Steve Schafer Irene Quintana Hillary Neely
Visual Examination	Irene Quintana Shane Miles Hillary Neely Mike Fryberger Anthony Presley

**OAK RIDGE NATIONAL LABORATORY
 CENTRAL CHARACTERIZATION PROJECT
 TABLE OF AUDITED DOCUMENTS
 Audit A-08-12**

No.	Procedure Number	REV	DOCUMENT TITLE
1.	CCP-PO-001	16	CCP Transuranic Waste Characterization Quality Assurance Project Plan
2.	CCP-PO-002	20	CCP Transuranic Waste Certification Plan
3.	CCP-QP-002	26	CCP Training and Qualification Plan
4.	CCP-QP-005	16	CCP TRU Nonconforming Item Reporting and Control
5.	CCP-QP-008	14	CCP Records Management
6.	CCP-QP-021	5	CCP Surveillance Program
7.	CCP-QP-028	8	CCP Records Filing, Inventorying, Scheduling, and Dispositioning
8.	CCP-TP-001	17	CCP Project Level Data Validation and Verification
9.	CCP-TP-002	19	CCP Reconciliation of DQOs and Reporting Characterization Data
10.	CCP-TP-003	16	CCP Data Analysis for S3000, S4000, and S5000 Characterization
11.	CCP-TP-005	18	CCP Acceptable Knowledge Documentation
12.	CCP-TP-163	0	CCP Standard Visual Examination of Records
13.	CCP-TP-500	7	CCP RH Waste Visual Examination
14.	CCP-TP-507	3	CCP Shipping of Remote-Handled Transuranic Waste
15.	CCP-TP-530	5	CCP RH TRU Waste Certification and WWIS Data Entry
16.	WP 13-QA.03	14	Quality Assurance Independent Assessment Program

List of Processes and Equipment Reviewed

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT				
ORNL/CCP Audit A-08-04 Contact-handled (CH) S5000 debris waste				
N/A	Acceptable Knowledge Procedure – CCP-TP-002 & CCP-TP-005	Debris (S5000)	YES	NO
16RR1	Real-Time Radiography Mobile Characterization System (MCS) RTR # 6 – 55 gallon drums Procedure – CCP-TP-165	Debris (S5000)	YES	NO
N/A	Headspace Gas Sampling Procedure – CCP-TP-082 & CCP-TP-093	Debris (S5000)	YES	N/A
N/A	Data Generation and Project Level Validation & Verification (V&V) Procedure – CCP-TP-001	Debris (S5000)	YES	NO
N/A	WIPP Waste Information System (WWIS) Procedure – CCP-TP-030 & CCP-TP-033	Debris (S5000)	YES	NO
N/A	Quality Assurance	N/A	YES	NO
NEW PROCESSES OR EQUIPMENT				
ORNL/CCP Audit A-08-12 Remote-handled (RH) S5000 debris waste				
N/A	Acceptable Knowledge Procedure – CCP-TP-002, CCP-TP-005, & CCP-TP-506	Debris (S5000)	NO	NO

List of Processes and Equipment Reviewed

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
N/A	Data Generation and Project Level Validation & Verification (V&V) Procedure – CCP-TP-001	Debris (S5000)	NO	NO
N/A	WIPP Waste Information System (WWIS) Procedure – CCP-TP-530	Debris (S5000)	NO	NO
N/A	Quality Assurance	N/A	YES	NO
16RHVE1	Visual Examination (VE) Procedure – CCP-TP-163 and CCP-TP-500	Debris (S5000)	NO	NO
16DTC1	Radiological characterization (Dose-to-Curie) Procedure - CCP-TP-504	Debris (S5000)	N/A	NO