



United States Government

Department of Energy

memorandum

Carlsbad Field Office
Carlsbad, New Mexico 88221



DATE: DEC 12 2013

REPLY TO
ATTN OF: CBFO:OQA:MPN:MAG:13-2320:UFC 2300.00

SUBJECT: Notification of Recertification Audit A-14-03, ORNL/CCP

TO: William G. McMillan, Jr., DOE-OR

Please be advised that an audit team from the Carlsbad Field Office (CBFO) will conduct Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP) Attachment C6 Audit A-14-03 of the Oak Ridge National Laboratory (ORNL) site and services of the Nuclear Waste Partnership, LLC (NWP) Central Characterization Program (CCP), for the recertification of contact-handled and remote-handled transuranic waste characterization activities. The audit, which is scheduled for January 14-16, 2014, will be conducted in accordance with the attached audit plan. Representatives from the New Mexico Environment Department (NMED) may be present to observe the audit.

Your representatives are requested to coordinate with the audit team and provide them access to the ORNL/CCP facilities and appropriate space to conduct meetings. Also, please arrange to have cognizant personnel available to support the audit, as well as access to the appropriate documentation and records.

If you have any questions concerning the audit, please contact me at (575) 234-7483.

Martin P. Navarrete
Senior Quality Assurance Specialist

Attachment

cc: w/attachment

- | | | | |
|---------------------------|------|-------------------|----|
| O. Vincent, CBFO | * ED | E. Feltcorn, EPA | ED |
| M. Brown, CBFO | ED | R. Joglekar, EPA | ED |
| J.R. Stroble, CBFO | ED | S. Ghose, EPA | ED |
| D. Miehl, CBFO | ED | R. Lee, EPA | ED |
| T. Morgan, CBFO | ED | J. Kieling, NMED | ED |
| M. Pinzel, CBFO | ED | T. Kliphuis, NMED | ED |
| N. Castaneda, CBFO | ED | S. Holmes, NMED | ED |
| J. M. Whitney, DOE-OR | ED | R. Maestas, NMED | ED |
| F. Sharif, NWP | ED | C. Smith, NMED | ED |
| T. Reynolds, NWP/CCP | ED | R. Allen, CTAC | ED |
| D. E. Gulbransen, NWP/CCP | ED | B. Pace, CTAC | ED |
| V. Cannon, NWP/CCP | ED | R. Castillo, CTAC | ED |
| A. J. Fisher, NWP/CCP | ED | D. Harvill, CTAC | ED |
| M. Walker, NWP/CCP | ED | G. White, CTAC | ED |
| W. Ledford, NWP/CCP | ED | Site Documents | ED |
| J. Carter, WTS/CCP | ED | CBFO QA File | |
| T. Peake, EPA | ED | CBFO M&RC | |
| L. Bender, EPA | ED | *ED denote | |



**CARLSBAD FIELD OFFICE
AUDIT PLAN**

Audit Number: A-14-03

Organization to be Audited: Oak Ridge National Laboratory (ORNL), Nuclear Waste Partnership LLC
Central Characterization Program (NWP/CCP)

Organizations to be Notified: ORNL
NWP
New Mexico Environment Department (NMED)
Defense Nuclear Facilities Safety Board
U.S. Environmental Protection Agency

Date and Location: January 14 – 16, 2014
Oak Ridge, TN, and Carlsbad, NM

Audit Team:

Martin Navarrete	Management Representative, Carlsbad Field Office (CBFO), Office of Quality Assurance
Dennis Miehls	QA Representative, CBFO
Berry Pace	Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Rick Castillo	Audit Team Co-Leader, CTAC
Cindi Castillo (AK)*	Auditor, CTAC
Greg Knox (NDA/DTC)	Auditor, CTAC
Katie Martin (RTR)	Auditor, CTAC
Prissy Martinez (VE)	Auditor, CTAC
Jim Schuetz (C6 QA)*	Auditor, CTAC
Dick Blauvelt (AK)*	Technical Specialist, CTAC
Rhett Bradford (VE)	Technical Specialist, CTAC
Kirk Kirkes(PL/V&V)*	Technical Specialist, CTAC
Porf Martinez (RTR)	Technical Specialist, CTAC
James Oliver (NDA/DTC)	Technical Specialist, CTAC
Charlene Roberts (AK)*	Technical Specialist, CTAC
B.J. Verret (FG/CM)	Technical Specialist, CTAC

* Indicates team members working at the Skeen-Whitlock Building in Carlsbad, NM.

Audit Scope:

The audit team will evaluate the adequacy, implementation, and effectiveness of the technical and quality assurance (QA) activities performed by NWP/CCP at ORNL for characterization and recertification of contact-handled (CH) Summary Category Groups (SCGs) S4000 soils/gravel, S5000 debris, and remote-handled (RH) S5000 debris wastes. The audit team will also evaluate technical and QA activities performed by NWP/CCP at ORNL for characterization and the initial certification of CH SCG S3000 solids waste.

The audit will be performed at the ORNL site in Oak Ridge, TN, and in the Skeen-Whitlock Building in Carlsbad, NM. A list of the equipment and processes to be evaluated is attached.

Governing Documents/Requirements:

Evaluation of the overall program adequacy and effectiveness of ORNL/CCP documents will be based on the current revisions of the following documents:

- *Quality Assurance Program Document, DOE/CBFO-94-1012*
- *Waste Isolation Pilot Plant Hazardous Waste Facility Permit NM4890139088-TSDF*
- *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant, DOE/WIPP-02-3122*
- *Remote-Handled TRU Waste Characterization Program Implementation Plan, DOE/WIPP-02-3214*

Programmatic and technical checklists will be developed from the current revisions of the following documents:

- *CCP Transuranic Waste Characterization Quality Assurance Project Plan, CCP-PO-001*
- *CCP Transuranic Waste Certification Plan, CCP-PO-002*
- *Related CCP QA and technical implementing procedures*

Activities to be Audited:

General

- Results of previous audits
- Changes in programs or operations
- New programs or activities being implemented
- Changes in key personnel

Quality Assurance

The following general areas from section C6-1 of the Hazardous Waste Facility Permit:

- Nonconformances
- Personnel Qualification and Training
- Records

Technical Activities

- Project-level Data Validation and Verification
- Acceptable Knowledge, including waste certification (i.e., Waste Stream Profile Forms)
- Real-time Radiography
- Visual Examination
- Nondestructive Assay
- Dose-to-Curie
- Flammable Gas Analysis
- WIPP Waste Information System/Waste Data System

Schedule of Audit Activities:

A pre-audit conference is scheduled for Tuesday, January 14, 2014, at 8:30 a.m.

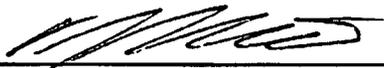
If needed, the audit team leader will conduct a management briefing with appropriate ORNL and CCP management Wednesday, January 15, and Thursday, January 16, 2014, at 8:30 a.m.

A post-audit conference is scheduled for Thursday, January 16, 2014, at 3:30 p.m.

All meetings will take place at the designated locations at the ORNL in Oak Ridge, TN, and Skeen-Whitlock Building in Carlsbad, NM.

Prepared by: 
Berry Pace, CTAC
Audit Team Leader

Date: 12/11/13

Concurrence: 
Oba Vincent, CBFO
Acting Director, Office of Quality Assurance

Date: 12/11/13

CENTRAL CHARACTERIZATION PROGRAM LIST OF CH AND RH EQUIPMENT AND PROCESSES REQUIRING EVALUATION AND CERTIFICATION AT OAK RIDGE NATIONAL LABORATORY					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
Nondestructive Assay (NDA)					
16IQ1	IQ3	Canberra Mobile Qualitative and Quantitative Drum Counter with Isotopics (IQ3) Procedure CCP-TP-046, CCP-TP-047, CCP-TP-048	<ul style="list-style-type: none"> • High Sensitivity Gamma Waste Assay System • 3 HPGe Coaxial Detectors • 3 LEGe Detectors 	NDA-2000	The calibration of the IQ3 is documented in MCS-IQ3-CALIB-2009, "Calibration Report for the MCS IQ3," MCS-IQ3-TMU-2009. Total Measurement Uncertainty for the MCS IQ3 documents the estimate of total measurement uncertainty.
Dose-to-Curie (DTC)					
16DTC1	Dose-to-Curie	Radiological characterization process Procedure CCP-TP-504	As identified in CCP-TP-504	As identified in CCP-TP-504	N/A
Nondestructive Examination (NDE)					
16RR1	MCS RTR #6	Real-time Radiography Mobile Characterization System RTR #6 Procedure CCP-TP-053, CCP-TP-165	<ul style="list-style-type: none"> • Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door • Conveyer cart including drum manipulation equipment • X-ray imaging system including x-ray tube, image intensifier, and video camera • Video/audio recording equipment • Mobile platform 	N/A	N/A

CENTRAL CHARACTERIZATION PROGRAM LIST OF CH AND RH EQUIPMENT AND PROCESSES REQUIRING EVALUATION AND CERTIFICATION AT OAK RIDGE NATIONAL LABORATORY					
WIPP WWS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
16RR2	MCS RTR #7	Real-time Radiography Mobile Characterization System RTR #7 Procedure CCP-TP-053, CCP-TP-164	<ul style="list-style-type: none"> • Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door • Conveyer cart including drum manipulation equipment • X-ray imaging system including x-ray tube, image intensifier, and video camera • Video/audio recording equipment • Mobile platform 	N/A	N/A
Visual Examination (VE)					
16RHVE1	Visual Examination	Visual Examination Procedure CCP-TP-500	N/A	N/A	N/A
16VE1	Visual Examination	Visual Examination Procedure CCP-TP-113	N/A	N/A	N/A