

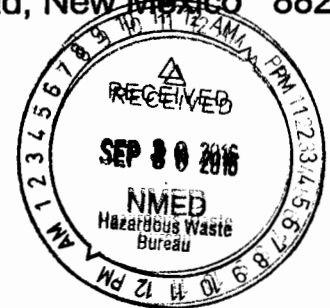


Department of Energy

United States Government

memorandum

Carlsbad Field Office
Carlsbad, New Mexico 88221



DATE: **SEP 30 2016**

REPLY TO
ATTN OF: CBFO:OQA:MPN:BA:16-3443:UFC 2300.00

SUBJECT: WAC Compliance Audit A-17-07 of the ORNL/CCP

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

Please be advised that an audit team from the Carlsbad Field Office (CBFO) will conduct Audit A-17-07 of the Oak Ridge National Laboratory (ORNL), and services of the Nuclear Waste Partnership LLC (NWP) Central Characterization Program (CCP), to evaluate compliance to changes made in DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria (WAC) for the Waste Isolation Pilot Plant, Revision 8*, as applicable to waste characterization activities being performed at the ORNL for contact-handled Summary Category Groups (SCGs) S3000 solids, S4000 soils/gravel, S5000 debris wastes, and remote-handled SCG S5000 debris wastes. The audit, which is scheduled for October 17 – 19, 2016, will be conducted at the Skeen-Whitlock Building in Carlsbad, NM and in accordance with the attached audit plan.

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

Martin P. Navarrete FOR
 Martin P. Navarrete
 Senior Quality Assurance Specialist

Attachment

cc: w/attachment

- | | | | |
|----------------------|-----|-------------------|----|
| S. Ross, EM-3.113 | *ED | S. Punchios, NWP | ED |
| M. Brown, CBFO | ED | A. Boyea, NWP | ED |
| J.R. Stroble, CBFO | ED | J. Walsh, EPA | ED |
| D. Miehl, CBFO | ED | T. Peake, EPA | ED |
| G. Birge, CBFO | ED | E. Feltcorn, EPA | ED |
| N. Castaneda, CBFO | ED | R. Joglekar, EPA | ED |
| T. Carver, CBFO | ED | J. Kieling, NMED | ED |
| S. Cange, DOE-OR | ED | R. Maestas, NMED | ED |
| P. Breidenbach, NWP | ED | C. Smith, NMED | ED |
| J. Blankenhorn, NWP | ED | V. Daub, CTAC | ED |
| J. Britain, NWP | ED | P. Martinez, CTAC | ED |
| F. Sharif, NWP | ED | C. Castillo, CTAC | ED |
| D.E. Gulbransen, NWP | ED | M. Leroy, CTAC | ED |
| R. Reeves, NWP | ED | R. Castillo, CTAC | ED |
| A.J. Fisher, NWP | ED | D. Harvill, CTAC | ED |
| I. Joo, NWP | ED | G. White, CTAC | ED |
| J. Carter, NWP | ED | Site Documents | ED |
| V. Cannon, NWP | ED | CBFO QA File | |
| B. Allen, NWP | ED | CBFO M&RC | |

*ED denotes electronic d'



**CARLSBAD FIELD OFFICE
AUDIT PLAN**

Audit Number: A-17-07

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

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

Date and Location: October 17–19, 2016
Carlsbad, NM

Audit Team:	Martin Navarrete	Management Representative, Carlsbad Field Office (CBFO) Office of Quality Assurance
	Rick Castillo	Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
	Bob Prentiss (AK)	Auditor, CTAC
	Katie Chester (RTR/NDA)	Auditor, CTAC
	Ricardo Chavez (AK)	Auditor-in-Training, CTAC
	Dick Blauvelt (AK)	Technical Specialist, CTAC
	Rhett Bradford (RTR)	Technical Specialist, CTAC
	Jim Vernon (PLV&V)	Technical Specialist, CTAC
	Jim Oliver (NDA/DTC)	Technical Specialist, CTAC
	Jim Schuetz (WWIS/WDS)	Technical Specialist, CTAC

Audit Scope:

The audit team will evaluate compliance to changes made in DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant (WAC)*, Revision 8, as applicable to waste characterization activities being performed at the ORNL for contact-handled (CH) Summary Category Groups (SCGs) S3000 solids, S4000 soils/gravel, and S5000 debris wastes, and remote-handled (RH) SCG S5000 debris wastes. Areas of focus will include the enhanced acceptable knowledge (AK) process; the expansion of WAC Appendix A, incorporating radioassay of both CH and RH transuranic waste and the clarification of minimum detectable activity and lower limit of detection terms; the clarification and strengthening of the requirements and methods for non-destructive assay (NDA) system quality control and documentation added to adjust for the elimination of the requirement for weekly interfering matrix measurements; and radiography training for operators in WAC Appendix F. The Generator Site Technical Review process was previously evaluated during CBFO Surveillance S-16-57.

The audit will be performed at the Skeen-Whitlock Building in Carlsbad, NM.

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 quality assurance and technical implementing procedures*

Activities to be Audited:

- *Project-level Data Validation and Verification (PLV&V)*
- *Acceptable Knowledge (AK), including waste certification (i.e., Waste Stream Profile Forms)*
- *Real-time Radiography (RTR)*
- *Nondestructive Assay/Dose-to-Curie (NDA/DTC)*
- *WIPP Waste Information System/Waste Data System (WWIS/WDS)*
- *Personnel Qualification and Training (NDA/RTR)*

Schedule of Audit Activities:

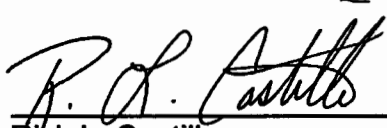
A pre-audit conference is scheduled for Monday, October 17, 2016, at 8:30 a.m.

Audit team caucuses will be held at 3:00 p.m. on Monday and Tuesday, October 17 and 18, and at 1:00 p.m. on Wednesday, October 19, 2016.


If needed, the audit team leader will conduct a management briefing with appropriate ORNL and NWP/CCP management Tuesday, October 18, and Wednesday, October 19, 2016, at 8:30 a.m.

A post-audit conference is scheduled for Wednesday, October 19, 2016, at 2:30 p.m.

All meetings will take place at the Skeen-Whitlock Building in Carlsbad, NM.

Prepared by: 
Rick L. Castillo
CTAC Audit Team Leader

Date: 9/28/16

Concurrence: 
Michael R. Brown, Director
CBFO Office of Quality Assurance

Date: 9/29/2016