memorandum

DATE: FEB 2 6 2015
REPLY TO ATTN OF: CBFO:QAD:MPN:RMS:15-0660:UFC 2300.00
SUBJECT: Reschedule of CBFO Recertification Audit A-15-09 of the ORNL/CCP and Transmittal of the Revised Audit Plan
TO: Laura Wilkerson, DOE-OR

Please be advised that Carlsbad Field Office (CBFO) Recertification Audit A-15-09 of the Oak Ridge National Laboratory Central Characterization Program (ORNL/CCP) has been rescheduled from February 24-26, 2015 to March 31- April 2, 2015. The revised audit plan is attached.

If you have any questions concerning Audit A-15-09, please contact me at (575) 234-7483.

Martin P. Navarrete
Senior Quality Assurance Specialist

Attachment

cc: w/attachment
M. Brown, CBFO *ED
J.R. Stroble, CBFO ED
D. Miehls, CBFO ED
N. Castaneda, CBFO ED
S. Cange, DOE-OR ED
R. McQuinn, NWP ED
J. Blankenhorn, NWP ED
J. Harris, NWP ED
F. Sharif, NWP ED
D.E. Gulbransen, NWP ED
V. Cannon, NWP ED
A.J. Fischer, NWP ED
M. Walker, NWP ED
W. Ledford, NWP ED
J. Carter, NWP ED
T. Peake, EPA ED
L. Bender, EPA ED
E. Feltcorn, EPA ED
R. Joglekar, EPA ED
S. Ghose, EPA ED
R. Lee, EPA ED
J. Kieling, NMED ED
R. Maestas, NMED ED
S. Holmes, NMED ED
C. Smith, NMED ED
V. Daub, CTAC ED
R. Allen, CTAC ED
P. Martinez, CTAC ED
B. Pace, CTAC ED
R. Castillo, CTAC ED
D. Harvill, CTAC ED
G. White, CTAC ED
Site Documents ED
CBFO QA File ED
CBFO M&RC ED
*ED denotes electronic distribution
CARLSBAD FIELD OFFICE  
AUDIT PLAN

Audit Number: A-15-09

Organization to be Audited: Oak Ridge National Laboratory (ORNL), Nuclear Waste Partnership LLC (NWP) Central Characterization Program (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: March 31 – April 2, 2015, Oak Ridge, TN, and Carlsbad, NM

Audit Team:
- Mike Brown, Carlsbad Field Office (CBFO) Quality Assurance Division Director
- Martin Navarrete, Management Representative, CBFO Quality Assurance Division
- Rick Castillo, Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
- Berry Pace, Auditor, CTAC
- Charlie Riggs (AK)*, Auditor, CTAC
- Priscilla Martinez (NDA), Auditor, CTAC
- Katie Martin (RTR), Auditor, CTAC
- Tamara Ackman (VE), Auditor, CTAC
- Jim Schuetz (C6 QA)*, Auditor, CTAC
- Dick Blauvelt (AK)*, Technical Specialist, CTAC
- Judith Stewart (AK)*, Technical Specialist, CTAC
- Porf Martinez (RTR), Technical Specialist, CTAC
- Rhett Bradford (VE), Technical Specialist, CTAC
- Paul Gomez (PL/V&V)*, Technical Specialist, CTAC
- Michel Hall (NDA/DTC), Technical Specialist, CTAC
- B.J. Verret (FG/CM), Technical Specialist, CTAC
- Greg Knox (RTR), Technical Specialist-in-Training, CTAC

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

Audit Scope:

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

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 to this plan (Attachment 1).
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

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 (PL/V&V)
- Acceptable Knowledge (AK), including waste certification (i.e., Waste Stream Profile Forms)
Schedule of Audit Activities:

A pre-audit conference is scheduled for Tuesday, March 31, 2015, at 8:30 a.m.

Audit team caucuses will be held at 4:00 p.m., Tuesday and Wednesday, March 31 and April 1, 2015, and at 1:00 p.m. on Thursday, April 2, 2015.

If needed, the audit team leader will conduct a management briefing with appropriate ORNL and CCP management Wednesday, April 1, and Thursday, April 2, 2015, at 8:30 a.m.

A post-audit conference is scheduled for Thursday, April 2, 2015, at 3:00 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: Rick L. Castillo
CTAC Audit Team Leader

Concurrence: Michael R. Brown, Director
CBFO Quality Assurance Division

Date: 2/24/15
Date: 3/31/2015
# CENTRAL CHARACTERIZATION PROGRAM
## LIST OF CH AND RH EQUIPMENT AND PROCESSES REQUIRING EVALUATION AND CERTIFICATION
### AT OAK RIDGE NATIONAL LABORATORY

<table>
<thead>
<tr>
<th>WDS Method ID #</th>
<th>Site Equipment # or Title</th>
<th>Description</th>
<th>Components</th>
<th>Software</th>
<th>NDA Calibrated Range, Operating Range and TMU</th>
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<tr>
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<tr>
<td><strong>Nondestructive Assay (NDA)</strong></td>
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</table>
| 16IQ1           | IQ3                      | Canberra Mobile Qualitative and Quantitative Drum Counter with Isotopes (IQ3) | • High Sensitivity Gamma Waste Assay System  
• 3 HPGe Coaxial Detectors  
• 3 LEGe Detectors | NDA-2000  
| 16MILCC2        | MILCC2                   | Mobile ISOCS Large Container Counter (MILCC)  
Approved for 55 gallon drums  
Procedures CCP-TP-076, CCP-TP-077, and CCP-TP-048 | • ISOCS Characterized Broad Energy Gamma Detectors (2)  
• ISOCS rails and collimator sets (2)  
• ISOCS carts (2)  
• Signal cables  
• Canberra LYNX Digital Signal Processors (2) | NDA-2000  
Genie 2000 | Calibration Report for the Mobile ISOCS Large Container Counter (MILCC) at the Transuranic Waste Processing Center in Oak Ridge, TN describes the operating ranges and methods. The acceptance range is LLD to limited by dead time. Acceptable density range for gamma is approximately 0.001-2.50 g/cc. |
| **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 | • Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door  
• Conveyor cart including drum manipulation equipment  
• X-ray imaging system | N/A | N/A |

Page 1 of 2
# CENTRAL CHARACTERIZATION PROGRAM

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<td>including x-ray tube, image intensifier, and video camera</td>
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<td>• Video/audio recording equipment</td>
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<td></td>
<td>• Mobile platform</td>
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<tr>
<td>16RR2</td>
<td>MCS RTR #7</td>
<td>Real-time Radiography Mobile Characterization System RTR #7 Procedure CCP-TP-053, CCP-TP-164</td>
<td>• Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door</td>
<td>N/A</td>
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## Visual Examination (VE)

| 16RHVE1         | Visual Examination Procedure CCP-TP-500 | N/A | N/A | N/A |
| 16VE1           | Visual Examination Procedure CCP-TP-113 | N/A | N/A | N/A |