
Please be advised that an audit team from the Carlsbad Field Office (CBFO) will conduct the subject audit at the Argonne National Laboratory (ANL) in Argonne, IL, and the CBFO Skee-Whitlock Building in Carlsbad, NM, August 28 – 30, 2012. The audit will be conducted in accordance with the attached audit plan. Representatives from the New Mexico Environment Department may be present to observe the audit.

Your representatives are requested to coordinate with the audit team and provide the team access to the ANL Central Characterization Project facilities, a meeting room (with an overhead projector) to accommodate approximately 30 people for the entrance and exit meetings at both locations, working rooms for the team at both locations; cognizant personnel to support the audit, and access to the appropriate documentation and records at both locations.

If you have any questions, please contact me at (575) 234-7548.

Courtland G. Fesmire, P.E.
Quality Assurance Engineer

Attachment
cc: w/attachment

R. Unger, CBFO  *ED
J. R. Stroble, CBFO  ED
M. Pinzel, CBFO  ED
T. Morgan, CBFO  ED
K. Joshi, DOE-CH  ED
D. Ploetz, WTS/CCP  ED
M. Sensibaugh, WTS/CCP  ED
V. Cannon, WTS/CCP  ED
A. J. Fisher, WTS/CCP  ED
I. Quintana, WTS/CCP  ED
M. Walker, WTS/CCP  ED
Y. Salmon, WTS/CCP  ED
J. Carter, WTS/CCP  ED
T. Peake, EPA  ED
M. Eagle, EPA  ED
E. Feltcorn, EPA  ED
R. Joglekar, EPA  ED
S. Ghose, EPA  ED
R. Lee, EPA  ED
J. Kieling, NMED  ED
T. Kliphuis, NMED  ED
S. Holmes, NMED  ED
R. Maestas, NMED  ED
T. Kesterson, NMED/DOE OB  ED
J. Marple, NMED/DOE OB  ED
D. Winters, DNFSB  ED
P. Gilbert, LANL-CO  ED
G. Lyshik, LANL-CO  ED
G. Knox, CTAC  ED
M. Mager, CTAC  ED
G. White, CTAC  ED
WIPP Operating Record  ED
CBFO QA File  ED
CBFO M&RC  ED

*ED denotes electronic distribution
CARLSBAD FIELD OFFICE AUDIT PLAN

Audit Number: A-12-16

Organization to be Audited: Argonne National Laboratory (ANL), Washington TRU Solutions (WTS)
Central Characterization Project (CCP)

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

Date and Location:
August 28 – 30, 2012
Argonne, Illinois, and Carlsbad, New Mexico

Audit Team:
Courtland Fesmire Management Representative, Carlsbad Field Office (CBFO) Office of Quality Assurance
Greg Knox Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Berry Pace Auditor, CTAC
Porf Martinez Auditor, CTAC
Charlie Riggs Auditor, CTAC
Rick Castillo Auditor, CTAC
Rhett Bradford Technical Specialist, CTAC
Dick Blauvelt Technical Specialist, CTAC
Sheila Hailey Technical Specialist, CTAC
Paul Gomez Technical Specialist, CTAC
Jim Oliver Technical Specialist, CTAC
B.J. Verret Technical Specialist, CTAC

Audit Scope:
The audit team will evaluate the adequacy, implementation, and effectiveness of ANL/CCP technical and quality assurance activities for characterization and certification of remote-handled, Summary Category Group S5000 debris waste. The audit team will evaluate these activities for compliance to requirements in the Waste Isolation Pilot Plant Hazardous Waste Facility Permit Waste Analysis Plan (WAP) and the CBFO Quality Assurance Program Document (QAPD). See Attachment 1, Processes and Equipment to Be Reviewed During Audit A-12-16 of the ANL/CCP, for additional details. Elements of the WAP will be evaluated using the May 8, 2012 version of the WAP Table C6 Checklists. Non-WAP-related activities will be evaluated for compliance to the requirements in the CBFO QAPD using auditor generated checklists.
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 Activities**
- Personnel Qualification and Training
- Records
- Quality Improvement/Nonconformances

**Technical Activities**

**ANL (Argonne)**
- Visual Examination (VE)
- Dose-to-Curie (DTC)
- Gravimetric or Dimensional Measurement
- Headspace Gas (HSG) Sampling
- Transportation

**Carlsbad**
- Project-Level Data Validation and Verification
- Acceptable Knowledge (AK)
- Waste Certification (e.g., Waste Stream Profile Form)
- WIPP Waste Information System (WWIS)/Waste Data System (WDS)

**Governing Documents/Requirements**

Overall program adequacy and effectiveness of the ANL/CCP waste characterization processes will be based on the current revisions of the following documents.

- DOE/CBFO-94-1012, *Quality Assurance Program Document (QAPD)*
- Hazardous Waste Facility Permit, Waste Isolation Pilot Plant, EPA No. NM4890139068-TSDF, the New Mexico Environment Department
- CCP implementing procedures
Schedule of Audit Activities:

A pre-audit conference will be held Tuesday, August 28, 2012, at 9:00 a.m. CDT

Management briefings will be held Wednesday, August 29, and Thursday, August 30, 2012, at 8:30 a.m. CDT

Audit team caucus meetings will be held Tuesday, August 28, and Wednesday, August 29, 2012, at 4:00 p.m. CDT

An audit team caucus meeting will be held Thursday, August 30, 2012, at 2:00 p.m. CDT

A post-audit conference will be held Thursday, August 30, 2012, at 4:00 p.m. CDT

All meetings will take place at the designated ANL/CCP and CBFO Skeen-Whitlock Building locations.

Prepared by: Greg Knox, GTAC
Audit Team Leader

Concurrence: Randy Unger, CBFO
Director, Office of Quality Assurance

Date: 12 Jul 2012

Date: 13 Jul 2012
## Processes and Equipment to Be Reviewed During Audit A-12-16 of the ANL/CCP

<table>
<thead>
<tr>
<th>WIPP #</th>
<th>Process/Equipment Description</th>
<th>Applicable to the Following Summary Category Groups</th>
<th>Currently Approved by NMED</th>
<th>Currently Approved by EPA</th>
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<tbody>
<tr>
<td>N/A</td>
<td>Headspace Gas Sampling</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>N/A</td>
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<tr>
<td>N/A</td>
<td>CCP-TP-093, CCP Sampling of TRU Waste Containers</td>
<td>Debris (S5000)</td>
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<tr>
<td>8RHVE1</td>
<td>Visual Examination</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES (Records only)</td>
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<td></td>
<td>CCP-TP-500, CCP Remote-Handled Waste Visual Examination</td>
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<td>CCP-TP-163, CCP Evaluation of Waste Packaging Records for Visual Examination of Records</td>
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<td>8RHVE2</td>
<td>Visual Examination of Newly Packaged RH Waste Drums</td>
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<td>CCP-TP-500, CCP Remote-Handled Waste Visual Examination</td>
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<td>N/A</td>
<td>Acceptable Knowledge</td>
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<td>N/A</td>
<td>Data Verification and Validation</td>
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<td>CCP-TP-001, CCP Project Level Data Validation and Verification</td>
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<td>CCP-TP-500, CCP Remote-Handled Waste Visual Examination</td>
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<td>CCP-TP-504, CCP Dose-to-Curie Survey Procedure for Remote-Handled Transuranic Waste</td>
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<td>Dose-to-Curie</td>
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<td>CCP-TP-504, CCP Dose-to-Curie Survey Procedure for Remote-Handled Transuranic Waste</td>
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<td>8RHGM1</td>
<td>Gravimetric or Dimensional Measurement</td>
<td>Debris (S5000)</td>
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<td>CCP-TP-513, CCP Procedure for Dimensional or Gravimetric Measurements for Radiological Characterization of Remote-Handled Transuranic Waste</td>
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<tr>
<td>N/A</td>
<td>WIPP Waste Information System (WWIS)/Waste Data System (WDS)</td>
<td>NA</td>
<td>YES</td>
<td>YES</td>
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</tbody>
</table>