DATE: JUN 13 2014
REPLY TO: CBFO:OQA:DSM:MAG:14-1173:UFC 2300.00
ATTN OF: Notification of CBFO Recertification Audit A-14-19, LANL/CCP TRU Waste Characterization Activities
SUBJECT: TO: David Nickless, Los Alamos Field Office (LAFO)

Please be advised that a team of auditors and technical specialists from the Carlsbad Field Office (CBFO) will conduct Recertification Audit A-14-19 of the Los Alamos National Laboratory (LANL) Central Characterization Program (CCP), for the recertification of contact-handled transuranic (TRU) waste characterization activities. The audit is scheduled for July 15-17, 2014 and 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 to provide access to the LANL/CCP facilities and appropriate space to conduct meetings. Please arrange to have cognizant personnel available to support the audit and to provide access to appropriate documentation and records.

If you have any questions concerning Audit A-14-19, please contact me at (575) 234-7491.

Dennis S. Miehls
Senior Quality Assurance Specialist

Attachment

cc: w/attachment
S. Ross, EM-43  ED
R. Toro, EM-43  ED
L. Bishop, LAFO  ED
M. Brown, CBFO  ED
J. R. Stroble, CBFO  ED
M. Navarrete, CBFO  ED
R. McQuinn, NWP  ED
J. Blankenhorn, NWP  ED
J. Harris, NWP  ED
F. Sharif, NWP/CCP  ED
D.E. Gulbransen, NWP/CCP  ED
V. Cannon, NWP/CCP  ED
A.J. Fisher, NWP/CCP  ED
M. Walker, NWP/CCP  ED
W. Ledford, NWP/CCP  ED
J. Carter, NWP/CCP  ED
J. Hoff, NWP/QA  ED
B. Allen, NWP/QA  ED
S. Punchios, NWP/QA  ED
S. Escareno-Soto, NWP/QA  ED
T. Peake, EPA  ED
L. Bender, EPA  ED
E. Feltecorn, 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
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-14-19

Organization to be Audited: Los Alamos National Laboratory (LANL) Central Characterization Project (CCP)
Nuclear Waste Partnership LLC (NWP)

Organizations to be Notified: NWP/CCP
U.S. Department of Energy, Los Alamos Field Office (DOE/LAFO)
U.S. Environmental Protection Agency (EPA)
New Mexico Environment Department (NMED)

Date and Location: July 15 – 17, 2014
Los Alamos, New Mexico

Audit Team:

Michael R. Brown CBFO Office of Quality Assurance, Director
Dennis Miehls CBFO Office of Quality Assurance, Audit Team Management Representative
Berry Pace Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Cindi Castillo Auditor, CTAC (RTR)
Katie Martin* Auditor, CTAC (C6 QA)
Jim Schuetz* Auditor, CTAC (WWIS/WDS)
Charlie Riggs Auditor, CTAC (AK)
H. Kirschenmann Auditor, CTAC (NDA)
Priscilla Martinez Auditor, CTAC (VE)
Mike Noland* Auditor in Training, CTAC (C6 QA)
Paul Gomez Technical Specialist, CTAC (PL V&V)
Porf Martinez Technical Specialist, CTAC (RTR)
Dick Blauvelt Technical Specialist, CTAC (AK, Waste Certification & Load Management)
Rick Castillo Technical Specialist, CTAC (VE)
James Oliver Technical Specialist, CTAC (NDA)
B. J. Verret Technical Specialist, CTAC (Flam Gas, Container Management, and Shipping Documentation)
Tamara Ackman Technical Specialist in Training, CTAC (VE)
Greg Knox Technical Specialist in Training, CTAC (RTR)

* Indicates audit 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 CCP quality assurance (QA), technical, and transportation activities performed at LANL for characterization, certification, and transportation of contact-handled (CH) Category Group (SCG) 53000 homogeneous solids waste, SGC 54000 soils/gravels, and SCG S5000 debris waste. See the attached "Processes and Equipment to be Evaluated During Audit A-14-19 of the LANL/CCP," for additional details.
Governing Documents/Requirements

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

- DOE/CBFO-94-1012, Quality Assurance Program Document (QAPD)
- Waste Isolation Pilot Plant Hazardous Waste Facility Permit NM4890139088-TSDF
- DOE/WIPP-02-3122, Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant
- Contact-Handled Transuranic Waste Authorized Methods for Payload Control (CH-TRAMPAC)

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

- CCP-PO-001, CCP Transuranic Waste Characterization Quality Assurance Project Plan
- CCP-PO-002, CCP Transuranic Waste Certification Plan
- CCP-PO-003, CCP Transuranic Authorized Methods for Payload Control (CCP CH-TRAMPAC)
- CCP-PO-012, CCP/LANL Interface Document
- Related NWP/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

C6-1 through C6-4 and General Quality Assurance Program Elements As Applicable

- Personnel Qualification and Training
- Nonconformances
- Records
- Identification and Control of Items
- Documents/Records Control (notebooks/logbooks)
- Software Version Installation
- Measuring and Test Equipment (M&TE)

Technical

- Acceptable Knowledge (AK)
- Generation and Project-Level Data Validation and Verification (V&V)
- Visual Examination (VE)
- Visual Examination Technique (VET), Off-Site Source Recovery Program
- Real-time Radiography (RTR)
- Nondestructive Assay (NDA) and participation in the Performance Demonstration Program (PDP)
Schedule of Audit Activities:

A pre-audit conference will be scheduled for Tuesday, July 15, 2014, at 8:30 a.m.

Audit team caucus meetings will be held Tuesday, July 15, and Wednesday July 16, 2014 at 4:00 p.m., and Thursday, July 17, 2014, at 2:00 p.m.

The audit team will brief appropriate LANL and CCP management on Wednesday, July 16, and Thursday, July 17, 2014, at 8:30 a.m.

A post-audit conference is scheduled for Thursday, July 17, 2014, at 3:30 p.m.

All meetings will take place at designated LANL and CBFO locations to be determined by LANL/CCP management.

Prepared by: Berry D. Pace, Audit Team Leader
CTAC
Date: 6/11/14

Concurrence: Michael R. Brown, Director
Office of Quality Assurance
Date: 6/11/14
## Processes and Equipment to be Evaluated During Audit A-14-19 of the LANL/CCP

<table>
<thead>
<tr>
<th>WIPP #</th>
<th>Process/Equipment Description</th>
<th>Applicable to the Following Waste Streams/Groups of Waste Streams</th>
<th>Currently Approved by NMED</th>
<th>Currently Approved by EPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>11MILCC1</td>
<td>Non-Destructive Assay Mobile In-Situ Object Counting System (ISOCS) Large Container Counter (MILCC) Procedure(s) – CCP-TP-076, CCP-TP-077 and CCP-TP-103</td>
<td>Solids (S3000) Soils/Gravel (S5000)</td>
<td>N/A</td>
<td>YES</td>
</tr>
<tr>
<td>11HERTR3</td>
<td>High Energy Real-Time Radiography (HERTR) Procedures CCP-TP-053 and CCP-TP-198 Description – High Energy Real-Time Radiography (RTR) [built by VJ Technologies] 55-gallon drums and SWBs</td>
<td>Solids (S3000) Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>11VE1</td>
<td>CH Visual Examination Procedure – CCP-TP-113 Description – CH Characterization performed utilizing Visual Examination (VE) and Acceptable Knowledge (AK)</td>
<td>Solids (S3000) Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>11VE2</td>
<td>Off-Site Source Recovery Program Procedure(s) – CCP-TP-069 and CCP-TP-101 Description – Characterization performed utilizing Visual Examination (VE) and Acceptable Knowledge (AK)</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
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<td>WIPP #</td>
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<tr>
<td>N/A</td>
<td>Acceptable Knowledge Procedure – CCP-TP-005, Description – Acceptable Knowledge (AK)</td>
<td>Solids (S3000)&lt;br&gt;Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>N/A</td>
<td>Data Verification and Validation Procedure(s) – CCP-TP-001, CCP-TP-002, CCP-TP-003, CCP-TP-103, CCP-TP-162</td>
<td>Solids (S3000)&lt;br&gt;Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>11HC1</td>
<td>Nondestructive Assay Procedure – CCP-TP-063, CCP-TP-064, CCP-TP-103 Description – Canberra Industries High Efficiency Neutron Counter (HENC) mounted in a transportation container</td>
<td>Solids (S3000)&lt;br&gt;Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
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<tr>
<td>11HC2</td>
<td>Nondestructive Assay Procedure – CCP-TP-063, CCP-TP-064, CCP-TP-103 Description – Canberra Industries High Efficiency Neutron Counter (HENC) mounted in a trailer</td>
<td>Solids (S3000)&lt;br&gt;Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
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<tr>
<td>11SHC1</td>
<td>Nondestructive Assay Procedure – CCP-TP-059, CCP-TP-064, CCP-TP-103 Description – Super High-Efficiency Neutron Counter mounted in a trailer, SWBs</td>
<td>Solids (S3000)&lt;br&gt;Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
</tr>
<tr>
<td>N/A</td>
<td>WIPP Waste Information System/Waste Data System (WWIS/WDS) Procedure – CCP-TP-030 Description – CH TRU Waste Characterization and WWIS Data Entry</td>
<td>Solids (S3000)&lt;br&gt;Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>
### Processes and Equipment to be Evaluated During Audit A-14-19 of the LANL/CCP

#### Table: Processes and Equipment to be Evaluated

<table>
<thead>
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<th>WIPP #</th>
<th>Process/Equipment Description</th>
<th>Applicable to the Following Waste Streams/Groups of Waste Streams</th>
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<th>Currently Approved by EPA</th>
</tr>
</thead>
</table>
| N/A    | Transportation Procedure(s) – CCP-TP-054, CCP-TP-055, CCP-TP-086, DOE/WIPP-02-3184, DOE/WIPP-02-3220, DOE/WIPP-02-3183 | Solids (S3000)  
Soils/Gravel (S4000)  
Debris (S5000) | N/A | N/A |
| N/A    | Quality Assurance Program | Solids (S3000)  
Soils/Gravel (S4000)  
Debris (S5000) | N/A | YES |