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 August 19-21, 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 LANU/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
R. Toro, EM-43
L. Bishop, LAFO
M. Brown, CBFO
J. R. Stroble, CBFO
M. Navarrete, CBFO
R. McQuinn, NWP
J. Blankenhorn, NWP
J. Harris, NWP
F. Sharif, NWP/CCP
D.E. Gulbransen, NWP/CCP
V. Cannon, NWP/CCP
A.J. Fisher, NWP/CCP
M. Walker, NWP/CCP
W. Ledford, NWP/CCP
J. Carter, NWP/CCP
J. Hoff, NWP/QA
B. Allen, NWP/QA
S. Punchios, NWP/QA
S. Escareno-Soto, NWP/QA
T. Peake, EPA
L. Bender, EPA
E. Fellcorn, EPA
R. Joglekar, EPA
S. Ghose, EPA
R. Lee, EPA
J. Kieling, NMED
T. Klphuis, NMED
S. Holmes, NMED
R. Maestas, NMED
C. Smith, NMED
V. Daub, CTAC
R. Allen, CTAC
P. Martinez, CTAC
B. Pace, CTAC
R. Castillo, CTAC
D. Harvill, CTAC
G. White, CTAC
Site Documents
CBFO QA File
CBFO M&RC

*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: August 19 – 21, 2014, Los Alamos, New Mexico

Audit Team:

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael R. Brown</td>
<td>Director, CBFO Office of Quality Assurance</td>
</tr>
<tr>
<td>Dennis Miehls</td>
<td>Audit Team Management Representative, CBFO Office of Quality Assurance</td>
</tr>
<tr>
<td>Berry Pace</td>
<td>Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)</td>
</tr>
<tr>
<td>Cindi Castillo</td>
<td>Auditor, CTAC (RTR)</td>
</tr>
<tr>
<td>Katie Martin*</td>
<td>Auditor, CTAC (C6 QA – NCRs/Records)</td>
</tr>
<tr>
<td>Jim Schuetz*</td>
<td>Auditor, CTAC (C6 QA – Training/WWIS/WDS)</td>
</tr>
<tr>
<td>Charlie Riggs</td>
<td>Auditor, CTAC (AK)</td>
</tr>
<tr>
<td>Tamara Ackman</td>
<td>Auditor, CTAC (VE)</td>
</tr>
<tr>
<td>Mike Noland</td>
<td>Auditor, CTAC (NDA)</td>
</tr>
<tr>
<td>Priscilla Martinez</td>
<td>Technical Specialist, CTAC (RTR)</td>
</tr>
<tr>
<td>Paul Gomez</td>
<td>Technical Specialist, CTAC (PL V&amp;V)</td>
</tr>
<tr>
<td>Porf Martinez</td>
<td>Technical Specialist, CTAC (VE - OSRP)</td>
</tr>
<tr>
<td>Dick Blauvelt</td>
<td>Technical Specialist, CTAC (AK and Waste Certification)</td>
</tr>
<tr>
<td>Joe Harvill</td>
<td>Technical Specialist, CTAC (NDA)</td>
</tr>
<tr>
<td>B. J. Verret</td>
<td>Technical Specialist, CTAC (Flam Gas, Container Management, and Shipping Documentation)</td>
</tr>
</tbody>
</table>

- 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) Summary Category Group (SCG) S4000 soils/gravel and SCG S5000 debris wastes, with the exception of waste processed through the Waste Characterization, Reduction and Repackaging Facility. 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 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
- *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)
Transportation

- Flammable Gas Analysis
- Shipping Documentation
- Container Management

Schedule of Audit Activities:

A pre-audit conference is scheduled for Tuesday, August 19, 2014, at 8:30 a.m.

Audit team caucus meetings will be held Tuesday, August 19, 2014, and Wednesday, August 20, 2014, at 4:00 p.m., and Thursday, August 21, 2014, at 2:00 p.m.

The audit team will brief appropriate LANL and CCP management on Wednesday, August 20, 2014, and Thursday, August 21, 2014, at 8:30 a.m.

A post-audit conference is scheduled for Thursday, August 21, 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:  

[Signature]
Berry D. Pace, Audit Team Leader  
CTAC

Date: 7/10/14

Concurrence:  

[Signature]
Michael R. Brown, Director  
Office of Quality Assurance

Date: 7-11-14
### 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&lt;br&gt;Mobile In-Situ Object Counting System (ISOCS) Large Container Counter (MILCC)&lt;br&gt;Procedure(s) – CCP-TP-076, CCP-TP-077 and CCP-TP-103</td>
<td>Soils/Gravel (S5000)</td>
<td>N/A</td>
<td>YES</td>
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<tr>
<td>11RR2</td>
<td>Real-Time Radiography (RTR)&lt;br&gt;Procedures – CCP-TP-053 and CCP-TP-028&lt;br&gt;Description – Real-Time Radiography (RTR) Mobile Characterization System [built by VJ Technologies]&lt;br&gt;55-gallon drums</td>
<td>Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>11HERTR3</td>
<td>High Energy Real-Time Radiography (HERTR)&lt;br&gt;Procedures CCP-TP-053 and CCP-TP-198&lt;br&gt;Description – High Energy Real-Time Radiography (RTR)&lt;br&gt;[built by VJ Technologies]&lt;br&gt;55-gallon drums and SWBs</td>
<td>Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>11VE1</td>
<td>CH Visual Examination&lt;br&gt;Procedure – CCP-TP-113&lt;br&gt;Description – CH Characterization performed utilizing Visual Examination (VE) and Acceptable Knowledge (AK)</td>
<td>Soils/Gravel (S4000)&lt;br&gt;Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>11VE2</td>
<td>Off-Site Source Recovery Program&lt;br&gt;Procedure(s) – CCP-TP-069 and CCP-TP-101&lt;br&gt;Description – Characterization performed utilizing Visual Examination (VE) and Acceptable Knowledge (AK)</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>N/A</td>
<td>Acceptable Knowledge Procedure – CCP-TP-005 Description – Acceptable Knowledge (AK)</td>
<td>Soils/Gravel (S4000) 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>Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<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>Soils/Gravel (S4000) 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>Soils/Gravel (S4000) 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>Soils/Gravel (S4000) 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>Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>N/A</td>
<td>Transportation Procedure(s) – CCP-TP-054, CCP-TP-055, CCP-TP-086, DOE/WIPP-02-3184, DOE/WIPP-02-3220, DOE/WIPP-02-3183</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>N/A</td>
<td>Quality Assurance Program</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
</tr>
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</table>