Subject: Transmittal of Audit Plan and Notification of Assigned Auditors for CBFO Audit A-11-10 of the Hanford Site Central Characterization Project

Dear Mr. Zappe:

This letter transmits the audit plan for Carlsbad Field Office (CBFO) Recertification Audit A-11-10 of the Hanford Site Central Characterization Project for Transuranic Waste Characterization Activities. The audit will be conducted as required by the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP), and will be held at the Skeen-Whitlock Building in Carlsbad, New Mexico, and at the Hanford Site, April 5-7, 2011. The audit plan identifies the audit team members as required by the HWFP.

Should you have any questions concerning this notification, please contact Martin P. Navarrete, Acting Director of the Office of Quality Assurance, at (575) 234-7483.

Sincerely,

Edward Ziemianski
Acting Manager

Enclosure

cc: w/enclosure
O. Vincent, CBFO
G. Basabilvazo, CBFO
M. Navarrete, CBFO
D. Miehls, CBFO
J. R. Stroble, CBFO
H. Budweg, CBFO
N. Castaneda, CBFO
S. McCauslin, CBFO
S. Holmes, NMED
E. Bradford, CTAC
K. D. Martin, CTAC
WIPP Operating Record
CBFO QA File
CBFO M&RC
*ED denotes electronic distribution
CARLSBAD FIELD OFFICE AUDIT PLAN

Audit Number: A-11-10

Organization to be Audited: Hanford Site, Washington TRU Solutions, LLC (WTS) Central Characterization Project (CCP)

Organizations to be Notified: Hanford Site, WTS, New Mexico Environment Department (NMED), Defense Nuclear Facilities Safety Board (DNFSB), U.S. Environmental Protection Agency (EPA)

Date and Location: April 5 – 7, 2011

Hanford Site and Carlsbad, New Mexico

Audit Team:

Earl Bradford Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Charlie Riggs Auditor, CTAC
Prissy Martinez Auditor, CTAC
Nick Wade Auditor, CTAC
Rick Castillo** Auditor, CTAC (C6-1 QA)
Katie Martin** Auditor, CTAC (C6-1 QA)
Cindi Castillo Auditor, CTAC
Tammy Bowden Auditor, CTAC
Dick Blauvelt** Technical Specialist, CTAC (AK)
Paul Gomez** Technical Specialist, CTAC (PL Data V&V)
B. J. Verret Technical Specialist, CTAC
James Oliver Technical Specialist, CTAC
Rhett Bradford Technical Specialist, CTAC
Porf Martinez Technical Specialist, CTAC
Tommy Putnam Technical Specialist, CTAC
Joe Willis Technical Specialist, WTS

** Identifies personnel auditing in Carlsbad, NM

Audit Scope:

The audit team will evaluate the adequacy, implementation, and effectiveness of the Hanford/CCP technical and quality assurance (QA) activities performed at Hanford for characterization and certification of contact-handled (CH) S3000 solids waste and S5000 debris waste. The audit team will also evaluate transportation activities performed at Hanford for shipping of CH transuranic (TRU) waste to the Waste Isolation Pilot Plant (WIPP).
See the attached “Process and Equipment to be Audited During Audit A-11-10 of Hanford/CCP” for additional details.

**Governing Documents/Requirements**

Evaluation of the overall program adequacy and effectiveness of Hanford/CCP documents will be based on the current revisions of the following documents:

- **Quality Assurance Program Document (QAPD), DOE/CBFO-94-1012**
- Hazardous Waste Facility Permit (HWFP), Waste Isolation Pilot Plant EPA No. NM4890139088-TSDF, the New Mexico Environment Department
- **Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant (WAC), DOE/WIPP-02-3122**
- **TRUPACT-II Safety Analysis Report: TRUPACT-II Authorized Methods for Payload Control (TRAMPAC), and the TRUPACT-II Certification of Compliance, NRC 71-9281**
- **Waste Isolation Pilot Plant Flammable Gas Analysis, DOE/WIPP-06-3345**

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

- **CCP Transuranic Waste Quality Assurance Characterization Project Plan (QAPjP), CCP-PO-001**
- **CCP Transuranic Waste Certification Plan, CCP-PO-002**
- **CCP Transuranic Authorized Methods for Payload Control (CCP CH-TRAMPAC), CCP-PO-003**
- Related CCP quality assurance 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 HWFP:

- Nonconformances
- Personnel Qualification and Training
- Records

Technical Activities

- Generation and Project Level Data Validation & Verification (V&V)
- Acceptable Knowledge (AK)
- Real-time Radiography (RTR)
- Visual Examination (VE)
- Headspace Gas (HSG) Sampling
- Nondestructive Assay (NDA)
- Waste Certification (e.g., Waste Stream Profile Form)
- WIPP Waste Information System (WWIS)/Waste Data System (WDS)
- Transportation (including Flammable Gas Analysis)

Schedule of Audit Activities:

A pre-audit conference is scheduled for Tuesday, April 5, 2011, at 8:00 a.m.

Audit team caucus meetings will be held Tuesday, April 5, and Wednesday, April 6, 2011, at 4:00 p.m., and Thursday, April 7, 2011, at 2:00 p.m.

The audit team leader will conduct a management briefing with appropriate Hanford Site and CCP management personnel Wednesday, April 6, and Thursday, April 7, 2011, at 8:30 a.m.

A post-audit conference is scheduled for Thursday, April 7, 2011, at 4:00 p.m.

All meetings will take place at the designated locations at the Hanford Site and in Carlsbad, New Mexico:

Prepared by: [Signature]
Earl Bradford, CTAC
Audit Team Leader

Concurrence: [Signature]
Martin Navarrete, Acting Director
CBFO Office of Quality Assurance

Date: 3/1/2011
Date: 3/2/2011
# Processes and Equipment to be Audited During Audit A-11-10 of the Hanford/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>18HERTR</td>
<td>High-Energy Real-Time Radiography System – 55/85-gallon drums and SWBs Procedure – CCP-TP-198</td>
<td>Debris (S5000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>18SHENC</td>
<td>Super High Efficiency Neutron Counter &quot;A&quot; Platform (SHENC) Procedure – CCP-TP-0137</td>
<td>Debris (S5000)</td>
<td>N/A</td>
<td>NO</td>
</tr>
</tbody>
</table>

## NEW PROCESSES

**CONTACT-HANDLED (CH) S3000 SOLIDS WASTE**

<table>
<thead>
<tr>
<th>WIPP #</th>
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</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Acceptable Knowledge Procedure – CCP-TP-002 and CCP-TP-005</td>
<td>Solids (S3000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>N/A</td>
<td>Data Generation and Project Level Validation &amp; Verification (V&amp;V) Procedure – CCP-TP-001</td>
<td>Solids (S3000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>N/A</td>
<td>Solids Sampling and Analysis¹</td>
<td>Solids (S3000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>18GEAA</td>
<td>Radiological Characterization by NDA – Hanford Gamma Energy Assay System Unit A – 55-gallon drums Procedure – CCP-TP-071</td>
<td>Solids (S3000)</td>
<td>N/A</td>
<td>NO</td>
</tr>
<tr>
<td>18GEAB</td>
<td>Radiological Characterization by NDA – Hanford Gamma Energy Assay System Unit B – 55-gallon drums Procedure – CCP-TP-071</td>
<td>Solids (S3000)</td>
<td>N/A</td>
<td>NO</td>
</tr>
</tbody>
</table>
## Processes and Equipment to be Audited During Audit A-11-10 of the Hanford/CCP

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<tbody>
<tr>
<td>18HERTR</td>
<td>High-Energy Real-Time Radiography System – 55/85-gallon drums and SWBs Procedure – CCP-TP-053</td>
<td>Solids (S3000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>18RTRA</td>
<td>Real-Time Radiography System – 55-gallon drums Procedure – CCP-TP-053</td>
<td>Solids (S3000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>18RTRB</td>
<td>Real-Time Radiography System – 55-gallon drums Procedure – CCP-TP-053</td>
<td>Solids (S3000)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>N/A</td>
<td>WIPP Waste Information System (WWIS)/Waste Data System (WDS) Procedure – CCP-TP-030</td>
<td>Solids (S3000)</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

**PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>N/A</td>
<td>Acceptable Knowledge Procedure – CCP-TP-002 and CCP-TP-005</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>18RTRA</td>
<td>Real-Time Radiography System – 55-gallon drums Procedure – CCP-TP-053</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>18RTRB</td>
<td>Real-Time Radiography System – 55-gallon drums Procedure – CCP-TP-053</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>
### Processes and Equipment to be Audited During Audit A-11-10 of the Hanford/CCP

<table>
<thead>
<tr>
<th>WIPP #</th>
<th>Process/Equipment Description</th>
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<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 Procedure – CCP-TP-093</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>N/A</td>
<td>Data Generation and Project Level Validation &amp; Verification (V&amp;V) Procedure – CCP-TP-001</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>N/A</td>
<td>WIPP Waste Information System (WWIS)/Waste Data System (WDS) Procedure – CCP-TP-030</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>18GEAA</td>
<td>Hanford Gamma Energy Assay System Unit A – 55-gallon drums Procedure – CCP-TP-071</td>
<td>Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
</tr>
<tr>
<td>18GEAB</td>
<td>Hanford Gamma Energy Assay System Unit B – 55-gallon drums Procedure – CCP-TP-071</td>
<td>Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
</tr>
<tr>
<td>18RLVE</td>
<td>Visual Examination Process – SWB and 55-gallon drums Procedure – CCP-TP-113</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>N/A</td>
<td>Quality Assurance</td>
<td>Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
</tr>
</tbody>
</table>

1. Solids Sampling and Analysis - Coring is performed by AMWTP, core samples are analyzed by INL/CCP Labs
2. Headspace Gas Sample Analysis is performed by INL/CCP Labs