Mr. Steve Zappe, Project Leader  
Hazardous Materials Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505-6303

Subject: Transmittal of Audit Plan and Notification of Assigned Auditors for CBFO Audit A-11-01 of the SRS/CCP Transuranic Waste Characterization Activities

Dear Mr. Zappe:

This letter transmits the audit plan for Carlsbad Field Office (CBFO) Recertification Audit A-11-01 of the Savannah River Site Central Characterization Project (SRS/CCP) 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 SRS, October 26-28, 2010. The audit plan identifies the audit team members as required by the HWFP.

Should you have any questions concerning this notification, please contact Ava L. Holland, CBFO Director of Quality Assurance, at (575) 234-7423.

Sincerely,

[Signature]
David C. Moody  
Manager

Enclosure

cc: w/enclosure
E. Ziemianski, CBFO  
A. Holland, CBFO  
G. Basabilvazo, CBFO  
D. Gadbury, CBFO  
W. Mackie, CBFO  
N. Castaneda, CBFO  
C. Fesmire, CBFO  
S. McCauslin, CBFO  
D. Miehls, CBFO  
M. Navarrete, CBFO  
S. Holmes, NMED  
P. Y. Martinez, CTAC  
WIPP Operating Record  
CBFO QA File  
CBFO M&RC  
*ED denotes electronic distribution
CARLSBAD FIELD OFFICE AUDIT PLAN

Audit Number: A-11-01

Organization to Be Audited:
- Savannah River Site (SRS)
- Central Characterization Project (CCP)

Organizations to be Notified:
- SRS
- Washington TRU Solutions, LLC (WTS)
- Environmental Protection Agency (EPA)
- New Mexico Environment Department (NMED)
- Defense Nuclear Facilities Safety Board (DNFSB)

Date and Location:
- October 26 - 28, 2010
- Aiken, South Carolina
- Carlsbad, New Mexico

Audit Team:
- Priscilla Y. Martinez: Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
- Dennis Miehls: Quality Assurance Management Representative, CBFO
- Earl Bradford: Auditor, CTAC
- Tammy Bowden: Auditor, CTAC
- Cindi Castillo: Auditor, CTAC
- Rick Castillo: Auditor, CTAC
- Berry Pace: Auditor, CTAC
- Tommy Putnam: Auditor, CTAC
- Charlie Riggs: Auditor, CTAC
- B.J. Verret: Auditor, CTAC
- N. Wade: Auditor, CTAC
- Dick Blauvelt: Technical Specialist, CTAC
- Rhett Bradford: Technical Specialist, CTAC
- Paul Gomez: Technical Specialist, CTAC
- Mavis Lin: Technical Specialist, CTAC
- Porf Martinez: Technical Specialist, CTAC
- Jim Oliver: Technical Specialist, CTAC
- Steve McGonagill: Technical Specialist, WTS

Audit Scope:

The audit team will evaluate the continued adequacy, implementation, and effectiveness of SRS transuranic (TRU) waste activities as they relate to the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP) for Summary Category Groups (SCGs) S3000 contact-handled (CH) homogeneous
solids, S4000 soils/gravel, and S5000 debris waste, and S3000 remote-handled (RH) homogeneous solids and S5000 debris waste. The audit team will also evaluate an initial certification of the Real-Time Radiography (RTR) Unit 4 to characterize standard large box (SLB2s), and the Large Container Non-Destructive Examination (LCNDE) Unit to characterize 55-gallon drums, standard waste boxes (SWBs), and SLB2s.

**Activities to be Audited:**

The following general areas from section B6-3 of the HWFP will be evaluated:

- Results of previous audits
- Changes in programs or operations
- New programs or activities being implemented
- Changes in key personnel

The following quality assurance elements will be evaluated:

- Personnel Qualification and Training
- Documents and Records
- Nonconformances

The following technical elements will be evaluated:

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

**Savannah River Site**
- Data Generation V&V
- RTR
- Visual Examination (VE)
- Headspace Gas Sampling (HSG)
- Nondestructive Assay (NDA)
- Dose-to-Curie (DTC)
- Flammable Gas Analysis
- Transportation
- Performance Demonstration Program (PDP)

See the attachment Process and Equipment to be Reviewed During Audit A-11-01 of SRS/CCP for additional details.
Governing Documents/Requirements:

The overall program adequacy of SRS/CCP documents will be evaluated based on the following documents:

*Quality Assurance Program Document (QAPD), DOE/CBFO-94-1012*

Hazardous Waste Facility Permit Waste Isolation Pilot Plant EPA No. NM4890139088-TSDF, the New Mexico Environment Department

*Remote-Handled Transuranic Waste Characterization Program Implementation Plan (WCPIP), DOE/WIPP-02-3214*

*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

Programmatic and technical checklists will be developed from the active 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-TRUPACT-II Authorized Methods for Payload Control (TRAMPAC), CCP-PO-003*

*CCP/SRS Interface Document, CCP-PO-004*

Related WTS CCP quality assurance and technical implementing procedures

Schedule of Audit Activities:

A pre-audit conference will be held at 9:00 a.m. on Tuesday, October 26, 2010.

Audit team caucus meetings will be held at 5:00 p.m. on Tuesday, October 26, and Wednesday, October 27, 2010, and at 2:00 p.m. on Thursday, October 28, 2010.
Daily management briefings will be held with the appropriate management at 9:00 a.m. on Wednesday, October 27, and Thursday, October 28, 2010.

A post-audit conference is scheduled for 3:00 p.m. on Thursday, October 28, 2010.

All meetings will take place at the designated SRS and CBFO locations. All times are Eastern Daylight Time (EDT).

Prepared by: Priscilla Y. Martinez, CTAC
Priscilla Y. Martinez, CTAC
Audit Team Leader

Date: 9-20-10

Concurrence: Priscilla Y. Martinez
Ava L. Holland, Director
CBFO Office of Quality Assurance

Date: 9-21-10
**Processes and Equipment to be Reviewed During Audit A-11-01 of the SRS/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></td>
<td></td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
<tr>
<td>1RR4</td>
<td>Real-time Radiography Procedure - CCP-TP-053 and CCP-TP-145 Description - RTR-4 Standard large boxes (SLB2s)</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
<tr>
<td></td>
<td>Real-time Radiography Procedure - CCP-TP-053 and CCP-TP-074 Description - Large Container Non-Destructive Examination (LCNDE) Unit - 55 gallon drums, standard waste boxes (SWBs), and SLB2s</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
</tbody>
</table>

**PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT**

The following will be evaluated for recertification during CBFO Audit A-11-01

<table>
<thead>
<tr>
<th>WIPP #</th>
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<th>Applicable to the Following Waste Streams/Groups of Waste Streams</th>
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<tbody>
<tr>
<td>1NABC1</td>
<td>Nondestructive Assay Procedure - CCP-TP-186 and CCP-TP-191 Description - Box Segmented Gamma System (BSGS) and Box Neutron Assay System (BNAS)</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
<tr>
<td>1SG1</td>
<td>Nondestructive Assay Procedure - CCP-TP-051 Description - Mobile Characterization (MCS) Segmented Gamma Scanner (SGS)</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
<tr>
<td>1RR3</td>
<td>Real-time Radiography Procedure - CCP-TP-053 Description - RTR-15 Unit - 55-gallon drums (at PAD 4)</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
<tr>
<td>1RR4</td>
<td>Real-time Radiography Procedure - CCP-TP-053 and CCP-TP-145 Description - RTR-4 Unit - 55-gallon drums and SWBs</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
<tr>
<td>1RHVE1</td>
<td>Visual Examination Procedure - CCP-TP-500 Description - Visual Examination Technique (VET) (video/audio)</td>
<td>Solids (S3000)</td>
<td>Soils/Gravel (S4000)</td>
<td>Debris (S5000)</td>
</tr>
</tbody>
</table>

Page 1 of 2
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<th>Currently Approved by EPA</th>
</tr>
</thead>
</table>
| VISUAL | Visual Examination Procedure – CCP-TP-113 Description – VE QC Check for RTR, VE in lieu of RTR, VET for Retrievably Stored Waste | Solids (S3000) 
Soils/Gravel (S4000) 
Debris (S5000) | YES | YES |
| 1DTC1 | Dose-to-Curie Procedure – CCP-TP-504 Description – Radiological Characterization | Debris (S5000) | N/A | YES |
| N/A | Headspace Gas Sampling Procedure – CCP-TP-093 Description – CCP Sampling of TRU Waste Containers using SUMMA® Canisters | Debris (S5000) | YES | N/A |
| 1HG2 | Flammable Gas Analysis Procedure – DOE/WIPP-06-3345 Description – Transportation Requirement | All | N/A | N/A |
| N/A | Acceptable Knowledge (AK) | Solids (S3000) 
Soils/Gravel (S4000) 
Debris (S5000) | YES | YES |
| N/A | Data-Generation and Project-Level Validation and Verification (V&V) | Solids (S3000) 
Soils/Gravel (S4000) 
Debris (S5000) | YES | YES |
| N/A | WIPP Waste Information System (WWIS)/Waste Data System (WDS) | Solids (S3000) 
Soils/Gravel (S4000) 
Debris (S5000) | YES | YES |
| N/A | Quality Assurance Program | Solids (S3000) 
Soils/Gravel (S4000) 
Debris (S5000) | N/A | YES |