Mr. Steve Zappe, Project Leader
Hazardous Waste 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 Savannah River Site Audit A-09-01

Dear Mr. Zappe:

Enclosed is the audit plan for the Department of Energy (DOE) Carlsbad Field Office (CBFO) audit to be conducted at the Savannah River Site and the DOE/CBFO Skeen-Whitlock Building October 28 – 30, 2008, as required by the WIPP Hazardous Waste Facility Permit, Section B4-3f. The audit plan also identifies the audit team members, as required by Section B6-3 of the Permit.

Please contact the CBFO Quality Assurance Manager, Ava L. Holland, at (575) 234-7423 should you have any questions concerning this notification.

Sincerely,

[Signature]

David C. Moody
Manager

Enclosure

cc: w/out enclosure
A. Holland, CBFO
D. Miehls, CBFO
M. Navarrete, CBFO
D. Gadbury, CBFO
C. Fesmire, CBFO
N. Castaneda, CBFO
J. Bearzi, NMED
S. Holmes, NMED
C. Riggs, CTAC
WIPP Operating Record, MS: 452-09
CBFO QA File
CBFO M&RC
*ED denotes electronic distribution
# CARLSBAD FIELD OFFICE AUDIT PLAN

**Audit Number:** A-09-01

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

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

**Date and Locations:** October 28 – 30, 2008
- Aiken, South Carolina
- Carlsbad, New Mexico

**Audit Team:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Role Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charlie Riggs</td>
<td>Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)</td>
</tr>
<tr>
<td>Wayne Ledford</td>
<td>Management Representative, CTAC</td>
</tr>
<tr>
<td>Prissy Martinez</td>
<td>Auditor, CTAC</td>
</tr>
<tr>
<td>Tommy Putnam</td>
<td>Auditor, CTAC</td>
</tr>
<tr>
<td>Norman Frank</td>
<td>Auditor, CTAC</td>
</tr>
<tr>
<td>Tammy Bowden</td>
<td>Auditor, CTAC</td>
</tr>
<tr>
<td>Berry Pace</td>
<td>Auditor, CTAC</td>
</tr>
<tr>
<td>Mark von Weber</td>
<td>Auditor, CTAC</td>
</tr>
<tr>
<td>Paul Gomez</td>
<td>Technical Specialist, CTAC</td>
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<tr>
<td>Kirk Kirkes</td>
<td>Technical Specialist, CTAC</td>
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<tr>
<td>Karen Gaydosh</td>
<td>Technical Specialist, CTAC</td>
</tr>
<tr>
<td>B.J. Verret</td>
<td>Technical Specialist, CTAC</td>
</tr>
<tr>
<td>Dick Blauvelt</td>
<td>Technical Specialist, CTAC</td>
</tr>
<tr>
<td>Jim Oliver</td>
<td>Technical Specialist, CTAC</td>
</tr>
<tr>
<td>Joe Willis</td>
<td>Technical Specialist, WTS</td>
</tr>
</tbody>
</table>

**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 Group (SCG) S4000 soils/gravel and S5000 debris waste, including remote-handled (RH) S5000 waste (SR-RL-BCLDP.001). Additional technical and quality assurance elements will also be evaluated, including SCG S3000 solids (new), Headspace Gas Sampling using SUMMA® canisters (new), and the Nondestructive Assay Box Counter (NABC) (new). The specific items to be audited are listed below under Activities to be Audited.
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
- Quality Improvement
- Documents and Records

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)

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

For additional details see the attached Process and Equipment to be Reviewed During Audit A-09-01 of SRS/CCP.

**Governing Documents/Requirements:**

The overall program adequacy of SRS/CCP documents will be 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 by 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
Related WTS quality assurance implementing procedures

Schedule of Audit Activities:

A pre-audit conference will be held Tuesday, October 28, 2008, at 9:00 a.m.

Audit team caucus meetings will be held Tuesday, October 28, and Wednesday, October 29, 2008, at 5:00 p.m.

An audit team caucus meeting will be held Thursday, October 30, 2008, at 2:00 p.m.

Daily management briefings will be held with the appropriate management Wednesday, October 29, and Thursday, October 30, 2008, at 9:00 a.m.

A post-audit conference is scheduled for Thursday, October 30, 2008 at 4:00 p.m.

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

Prepared by: A.E. Brad go
Charles L. Riggs, CTAC Audit Team Leader

Date: 9/24/08

Concurrence: Marnie Nance
Ava L. Holland, CBFO Quality Assurance Manager

Date: 9/24/08
<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>TBD</td>
<td>Nondestructive Assay Procedures – CCP-TP-189 and CCP-TP-191 Description – Box Segmented Gamma System (BSGS) and Box Neutron Assay System (BNAS)</td>
<td>Debris (S5000)</td>
<td>N/A</td>
<td>NO</td>
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<tr>
<td>TBD</td>
<td>Headspace Gas Sampling Procedure – CCP-TP-093 Description – CCP Sampling of TRU Waste Containers using SUMMA® Canisters</td>
<td></td>
<td>NO</td>
<td>N/A</td>
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</table>

**NEW PROCESSES OR EQUIPMENT**

**PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT**

The following will be evaluated for recertification during CBFO Audit A-09-01

<table>
<thead>
<tr>
<th>WIPP #</th>
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<tbody>
<tr>
<td>1IQ1</td>
<td>Nondestructive Assay Procedure – CCP-TP-047 Description – Canberra Mobile Qualitative and Quantitative Drum Counter with Isotopics (IQ3)</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
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<tr>
<td>1SG1</td>
<td>Nondestructive Assay Procedure – CCP-TP-051 Description – Mobile Characterization (MCS) Segmented Gamma Scanner (MCS)</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
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<tr>
<td>1RR3</td>
<td>Real-time Radiography Procedure – CCP-TP-053 Description – Pad 15 RTR unit for drums (Now at PAD 4)</td>
<td>Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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<td>TBD</td>
<td>Dose-to-Curie Procedure – CCP-TP-504</td>
<td>Debris (S5000)</td>
<td>N/A</td>
<td>YES</td>
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<td>1HG2</td>
<td>Flammable Gas Analysis Procedure – DOE/WIPP-06-3345 Description – Transportation Requirement</td>
<td>All</td>
<td>N/A</td>
<td>N/A</td>
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<td>VISUAL</td>
<td>Visual Examination Procedure – CCP-TP-113 Description – VE QC Check for RTR, VE in lieu of RTR, VE Technique for Retrievably Stored Waste</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
<td>YES</td>
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</table>
Process and Equipment to be Reviewed During Audit A-09-01 of the SRS/CCP

<table>
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<tr>
<td>N/A</td>
<td>Acceptable Knowledge (AK)</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
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<td>N/A</td>
<td>Data Generation and Project Level Validation &amp; Verification (V&amp;V)</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
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<td>YES</td>
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<tr>
<td>N/A</td>
<td>WIPP Waste Information System (WWIS)</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
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</table>

**LIST OF DEACTIVATED EQUIPMENT**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1RR1</td>
<td>Real-time Radiography Procedure – CCP-TP-011</td>
<td>NONE</td>
<td>NO</td>
<td>NO</td>
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<td></td>
<td>Description – RTR-1 unit for drums Deactivated April 2007</td>
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<tr>
<td>1HG1</td>
<td>Headspace Gas System Procedure – CCP-TP-007</td>
<td>Soils/Gravel (S4000) Debris (S5000)</td>
<td>YES</td>
<td>N/A</td>
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<tr>
<td></td>
<td>Description – NUCFIL HSG DBS2 with GC/MS Unit A (Sat200014711284) and Unit B (Sat200043675697) Deactivated March 2008</td>
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<td></td>
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