

United States Government

Department of Energy

memorandum

 Carlsbad Field Office
 Carlsbad, New Mexico 88221

DATE: SEP 22 2010

REPLY TO
ATTN OF: CBFO:QA:DSM:MAG:10-1817:UFC 2300.00

SUBJECT: Recertification Audit A-11-01 of the Savannah River Site Central Characterization Project
Transuranic Waste Characterization Activities

TO: Herbert Crapse, DOE-SR



Please be advised that an audit team from the Carlsbad Field Office (CBFO) will conduct a recertification audit of the Savannah River Site (SRS) Central Characterization Project (CCP) at the CBFO Skeen-Whitlock Building in Carlsbad, New Mexico, and at the SRS, October 26-28, 2010. The audit will be conducted in accordance with the attached audit plan. Representatives from the CBFO and 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 the team access to the SRS facilities. Also, please provide meeting rooms (with an overhead projector) for the entrance and exit meetings, working rooms for the audit team, cognizant personnel to support the audit, and access to the appropriate documentation and records at both sites.

If you have any questions concerning this audit, please contact me at (575) 234-7491.

Dennis S. Miehl
Senior Quality Assurance Specialist

Attachment

cc: w/attachment

A. Holland, CBFO	*ED	S. Ghose, EPA	ED
D. Gadbury, CBFO	ED	R. Lee, EPA	ED
W. Mackie, CBFO	ED	S. Zappe, NMED	ED
N. Castaneda, CBFO	ED	S. Holmes, NMED	ED
M. Navarrete, CBFO	ED	T. Kesterson, DOE OB WIPP NMED	ED
D. Haar, WTS/CCP	ED	D. Winters, DNFSB	ED
D. Ploetz, WTS/CCP	ED	C. Timm, PECOS	ED
V. Cannon, WTS/CCP	ED	G. Lyshik, LANL-CO	ED
A. J. Fisher, WTS/CCP	ED	P. Gilbert, LANL-CO	ED
M. Walker, WTS/CCP	ED	P. Y. Martinez, CTAC	ED
Y. Salmon, WTS/CCP	ED	K. Martin, CTAC	ED
T. Peake, EPA	ED	P. Hinojos, CTAC	ED
M. Eagle, EPA	ED	WIPP Operating Record	ED
R. Joglekar, EPA	ED	CBFO QA File	
E. Feltcorn, EPA	ED	CBFO M&RC	

*ED denotes electronic distribution

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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
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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:

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- 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 Date: 9-20-10
Priscilla Y. Martinez, CTAC
Audit Team Leader

Concurrence: Ava L. Holland Date: 9-21-10
Ava L. Holland, Director
CBFO Office of Quality Assurance

Processes and Equipment to be Reviewed During Audit A-11-01 of the SRS/CCP

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
NEW PROCESSES OR EQUIPMENT				
1RR4	Real-time Radiography Procedure – CCP-TP-053 and CCP-TP-145 Description – RTR-4 Standard large boxes (SLB2s)	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	NO	NO
TBD	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	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	NO	NO
PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT				
The following will be evaluated for recertification during CBFO Audit A-11-01				
1NABC1	Nondestructive Assay Procedures – CCP-TP-189 and CCP-TP-191 Description – Box Segmented Gamma System (BSGS) and Box Neutron Assay System (BNAS)	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	N/A	YES
1SG1	Nondestructive Assay Procedure – CCP-TP-051 Description – Mobile Characterization (MCS) Segmented Gamma Scanner (SGS)	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	N/A	YES
1RR3	Real-time Radiography Procedure – CCP-TP-053 Description – RTR-15 Unit – 55-gallon drums (at PAD 4)	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	YES	YES
1RR4	Real-time Radiography Procedure – CCP-TP-053 and CCP-TP-145 Description – RTR-4 Unit - 55-gallon drums and SWBs	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	YES	YES
1RHVE1	Visual Examination Procedure – CCP-TP-500 Description – Visual Examination Technique (VET) (video/audio)	Solids (S3000) Soils/Gravel (S4000) Debris (S5000)	YES	YES

Processes and Equipment to be Reviewed During Audit A-11-01 of the SRS/CCP

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
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