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Carlsbad Field Office
Carlsbad, New Mexico 88221

DATE: November 9, 2011

REPLY TO ATTN OF: CBFO:OQA:CGF:MAG:11-1967:UFC 2300.00

SUBJECT: Surveillance Report S-12-04 of the Sandia National Laboratory Central Characterization Project Dose-to-Curie Process Follow-Up

TO: Jim Todd, DOE-SNL

The Carlsbad Field Office (CBFO) conducted a surveillance of the Sandia National Laboratories Central Characterization Project (SNL/CCP) Dose-to-Curie (DTC) analysis program, November 9, 2011. The surveillance was a follow-up to CBFO Audit A-11-23, which was conducted July 13-15, 2011. The surveillance consisted of a review of DTC batch reports (BDRs). As described in the attached surveillance report, the surveillance team concluded that the SNL/CCP BDR project-level review process is satisfactorily implemented and documented, and provides adequate review and approval of DTC results.

If you have any questions concerning this report, please contact me at (575) 234-7548.

R. Unger for

Courtland G. Fesmire, P.E.
Quality Assurance Engineer

Attachment

cc: w/attachment

R. Unger, CBFO	*ED	R. Joglekar, EPA	ED
J. R. Stroble, CBFO	ED	E. Feltcorn, EPA	ED
N. Castaneda, CBFO	ED	S. Ghose, EPA	ED
M. Pinzel, CBFO	ED	R. Lee, EPA	ED
M. Sensibaugh, WTS/CCP	ED	J. Kieling, NMED	ED
D. Ploetz, WTS/CCP	ED	S. Holmes, NMED	ED
V. Cannon, WTS/CCP	ED	D. Winters, DNFSB	ED
A. J. Fisher, WTS/CCP	ED	G. Lyshik, LANL-CO	ED
I. Quintana, WTS/CCP	ED	P. Gilbert, LANL-CO	ED
L. Nelson, WTS/CCP	ED	P. Gomez, CTAC	ED
M. Walker, WTS/CCP	ED	M. Mager, CTAC	ED
Y. Salmon, WTS/CCP	ED	WIPP Operating Record	
J. Carter, WTS/CCP	ED	CBFO QA File	
T. Peake, EPA	ED	CBFO M&RC	
M. Eagle, EPA	ED	*ED denotes electronic distribution	

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CBFO SURVEILLANCE REPORT

Surveillance Number: S-12-04 **Date of Surveillance:** November 9, 2011

Surveillance Title: SNL/CCP Dose-to-Curie Measurement, Data Reduction, and Project-Level Review Activities for Analyses Performed at the Sandia National Laboratories

Organization: Sandia National Laboratories Central Characterization Project (SNL/CCP)

Surveillance Team:

Randy Unger	Quality Assurance Director, CBFO
Paul C. Gomez	Surveillance Team Leader, CBFO Technical Assistance Contractor (CTAC)
Jim Oliver	Dose-to-Curie Technical Specialist, CTAC
Tammy Bowden	Quality Assurance Auditor, CTAC

Surveillance Scope:

This surveillance completes Audit A-11-23 associated with the dose-to-curie (DTC) process for characterizing remote-handled (RH) Summary Category Group S5000 debris waste.

Initial certification Audit A-11-23 was performed July 13 – 15, 2011, to evaluate DTC activities performed in the SNL Building 6597 Auxiliary Hot Cell Facility at the SNL/CCP host site. During this audit, the SNL Hot Cell Facility readouts for the dose measurements and analysis resulting from measurements taken with a Thermo Scientific probe detector were not available for review.

The surveillance team completed evaluation of the adequacy, procedure implementation, and effectiveness of the DTC data measurements documented in batch data reports (BDRs).

Results:

Activities Evaluated

The surveillance team reviewed BDRs SNLRHDTC11001 and SNLRHDTC11002 with respect to the applicable project-level review requirements. The BDRs contained data for the following RH waste containers.

SNLNM007009	SNLNM007020	SNLNM007008	SNLNM007007
SNLNM005339	SNLNM007010	SNLNM007021	SNLNM007023
SNLNM007024	SNLNM007011		
SNLNM007121	SNLNM007099	SNLNM007120	SNLNM007119
SNLNM007118	SNLNM007116	SNLNM007098	SNLNM007117
SNLNM007115	SNLNM007113	SNLNM007112	SNLNM007025
SNLNM007111	SNLNM007110	SNLNM007019	SNLNM007019
SNLNM007017	SNLNM007026	SNLNM007018	

The surveillance team interviewed CCP personnel and discussed details of the BDR regarding DTC measurement data collected using nondestructive assay equipment with a Thermo Scientific detector, reviewed results of data reduction of DTC analyses, and verified evidence of site project-level review for these analyses.

The following documents were referenced during BDR reviews and interviews with CCP personnel.

- CCP-TP-504, Rev. 5, *CCP Dose-to-Curie Survey Procedure for Remote-Handled Transuranic Waste*
- CCP-TP-512, Rev. 5, *CCP Remote-Handled Waste Sampling*
- DOE/WIPP-02-3214, *Remote-Handled TRU Waste Characterization Program Implementation Plan*, used as an upper-tier reference document

Program Adequacy, Implementation, and Effectiveness

The surveillance was conducted as a follow-up to Audit A-11-23 of the SNL. The DTC results of Audit A-11-23 were deemed indeterminate because final data packages were not available for review at the time of the audit. The data packages included data obtained from the detector used in the RH program DTC methodology.

All questions addressed in review of the subject BDR and interviews with RH personnel were satisfactorily resolved. The use of the Thermo Scientific detector in the DTC methodology for RH waste characterization was determined to be adequately documented and controlled with regard to requirements documents, technical reports, and implementing procedures; satisfactorily implemented for data acquisition, reduction analysis, and review to the site-project level; and effective at meeting applicable requirements.

No conditions adverse to quality were identified during the surveillance. No observations or recommendations concerning DTC BDR project-level review activities were cited during the surveillance.

The surveillance team concluded that the radiological waste characterization components evaluated were adequate, satisfactorily implemented, and effective.

This surveillance satisfactorily closed out the radiological characterization (RH/DTC) portion of Audit A-11-23.

Surveillance Team Leader Signature: _____ Date: 11/9/2011

Assistant Manager/Office Director: N/A Date: _____

CBFO QA Director Approval Signature: _____ Date: 9 Nov 11