

United States Government

Department of Energy

memorandum

 Carlsbad Field Office
 Carlsbad, New Mexico 88221

DATE: August 10, 2010

REPLY TO
ATTN OF: CBFO:QA:DSM:MAG:10-1376:UFC: 2300.00

SUBJECT: Surveillance Report S-10-34 of the Idaho National Laboratory Central Characterization Project Dose-to-Curie Follow-Up

TO: Jerry Wells, DOE-ID



The Carlsbad Field Office (CBFO) conducted a surveillance of the Idaho National Laboratory Central Characterization Project (INL/CCP) Dose-to-Curie (DTC) analysis program on July 20-21, 2010. The surveillance was a follow-up to CBFO Audit A-10-16 which was conducted June 8-10, 2010. The surveillance consisted of a review of nondestructive assay (NDA) DTC batch data reports (BDRs). As described in the enclosed surveillance report, the surveillance team concluded that the INL/CCP BDR project-level review process is satisfactorily implemented and documented, and provides adequate review and approval of NDA DTC results of measurements taken with equipment using Osprey detectors.

If you have any questions or comments, please contact me at (575) 234-7491.

Dennis S. Miehls
 Dennis S. Miehls
 Senior Quality Assurance Specialist

Attachment

cc: w/attachment

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CBFO SURVEILLANCE REPORT

Surveillance Number: S-10-34

Date of Surveillance: July 20 – 21, 2010

Surveillance Title: INL/CCP Dose-to-Curie Measurement, Data Reduction, and
Project-level Review Activities for Analyses Performed at INTEC
Building 659 Using the Osprey Detector

Organization: Idaho National Laboratory Central Characterization Project (INL/CCP)

Surveillance Team:

Dennis S. Miehls	Quality Assurance Representative, CBFO
James R. Schuetz	Surveillance Team Leader, CBFO Technical Assistance Contractor (CTAC)
Jim Oliver	Nondestructive Assay (NDA) Technical Specialist, CTAC

Surveillance Scope:

The surveillance team evaluated the adequacy, procedure implementation, and effectiveness of project-level review of dose-to-curie (DTC) data measured using an Osprey detector.

Data collection activities were included in the scope of Audit A-10-16, performed June 8 – 10, 2010, to evaluate DTC activities performed in the Idaho Nuclear Technology and Engineering Center (INTEC) Building 659 at the INL/CCP host site. The measurement acquisition control room (Cell 302) contains closed-circuit camera control systems and display units, and the readouts for the dose measurement and analysis resulting from measurements taken with an Osprey detector. During the audit, measurement areas and data acquisition equipment were examined and determined to be adequate. This surveillance was performed to address a determination of inadequacy of reporting due to the unavailability of final data packages for review at the time of the audit.

Results:

Activities Evaluated

The surveillance team reviewed Batch Data Report (BDR) #INLRHDTC10010 with respect to the applicable project-level review requirements. The BDR contained data for the following remote-handled (RH) containers.

SN136A	SN136B
SN156A	SN156B
SN158A	SN158B
SN160A	SN160B
SN172A	SN172B

The surveillance team discussed details of the BDR with CCP personnel regarding DTC measurement data collected using nondestructive assay (NDA) equipment with an

Osprey detector, results of data reduction of DTC analyses, and evidence of site project-level review for these analyses.

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

- CCP-TP-504, Rev. 10, *CCP Dose-to-Curie Survey Procedure for Remote-Handled Transuranic Waste*
- CCP-TP-530, Rev. 9, *CCP RH TRU Waste Certification and WWIS/WDS Data Entry*
- DOE/CBFO-94-1012, Rev. 11, *CBFO Quality Assurance Program Document (QAPD)*, was used as an upper-tier reference document

Program Adequacy, Implementation, and Effectiveness

Surveillance S-10-34 was conducted July 20 – 21, 2010, as a follow-up to Audit A-10-16 of the INL. The results of Audit A-10-16 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 new Osprey 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 Osprey 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. 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 (NDA and RH/DTC) portion of Audit A-10-16.

Corrective Actions:

No deficiencies were identified during the surveillance that required the generation of a corrective action report or that were corrected during the surveillance.

No Observations or Recommendations concerning DTC BDR project-level review activities were documented during the surveillance.

Surveillance Team Leader Signature: James R. Schertz Date: 08/06/10

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

CBFO QA Director Approval Signature: Martin M. Munnick Date: 8-10-10