

United States Government

Department of Energy

**memorandum**Carlsbad Field Office  
Carlsbad, New Mexico 88221

DATE: JUL - 1 2010  
REPLY TO  
ATTN OF: CBFO:QA:DSM:KBS:10-1307:UFC 2300.00

SUBJECT: Recertification Audit A-10-23 of the Argonne National Laboratory Central Characterization Project Transuranic Waste Characterization Activities for Remote-Handled Waste

TO: Dale Dietzel, DOE-CH



An audit team from the Carlsbad Field Office (CBFO) will conduct the Recertification Audit A-10-23 at the Argonne National Laboratory (ANL) in Argonne, IL, and the CBFO Skeen-Whitlock Building in Carlsbad, NM, August 3 through 5, 2010. The audit will be conducted in accordance with the attached audit plan. Representatives from the New Mexico Environment Department may be present to observe the audit.

Your representatives are requested to coordinate with the audit team and provide the team access to the ANL Central Characterization Project facilities, a meeting room (with an overhead projector) to hold approximately 30 people for the entrance and exit meetings, working rooms for the team, cognizant personnel to support the audit, and access to the appropriate documentation and records.

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

Dennis S. Miehls  
Senior Quality Assurance Specialist

Attachment



Dale Dietzel

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cc: w/attachment

A. Holland, CBFO	*ED
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K. Joshi, DOE-CH	ED
D. Haar, WTS/CCP	ED
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S. Ghose, EPA	ED
R. Lee, EPA	ED
P. Kelly, EPA Contractor	ED
S. Zappe, NMED	ED
S. Holmes, NMED	ED
T. Kesterson, DOE OB WIPP NMED	ED
C. Timm, PECOS	ED
D. Winters, DNFSB	ED
P. Gilbert, LANL-CO	ED
G. Lyshik, LANL-CO	ED
G. Knox, CTAC	ED
WIPP Operating Record	ED
CBFO QA File	
CBFO M&RC	

\*ED denotes electronic distribution

## CARLSBAD FIELD OFFICE AUDIT PLAN

**Audit Number:** A-10-23

**Organization to be Audited:** Argonne National Laboratory Central Characterization Project (ANL/CCP)

**Organizations to be Notified:** Argonne National Laboratory  
Washington TRU Solutions LLC (WTS)  
New Mexico Environment Department (NMED)  
Defense Nuclear Facilities Safety Board (DNFSB)

**Date and Location:** August 3 – 5, 2010  
Argonne, Illinois and  
Carlsbad, New Mexico

**Audit Team:**

Dennis S. Miehl	Audit Team Management Representative Carlsbad Field Office (CBFO)
Greg Knox	Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Berry Pace	Auditor, CTAC
Porf Martinez	Auditor, CTAC
Tammy Bowden	Auditor, CTAC
Rick Castillo	Auditor, CTAC
Harold Washington	Auditor, CTAC
Rhett Bradford	Technical Specialist, CTAC
Dick Blauvelt	Technical Specialist, CTAC
Paul Gomez	Technical Specialist, CTAC
Jim Oliver	Technical Specialist, CTAC

### Audit Scope:

The audit team will evaluate the adequacy, implementation, and effectiveness of ANL/CCP transuranic (TRU) waste activities related to the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP) for characterization and certification of remote-handled (RH) Summary Category Group (SCG) S5000 debris waste. Dose-to-curie activities will also be evaluated. The audit team will evaluate the gravimetric or dimensional measurement certification process for fuel examination waste (FEW) for addition to the approved waste characterization processes at ANL.

**Activities to be Audited:**

**Activities to be Audited:**

**General**

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

**B6-1 and B6-3-related quality assurance (QA) activities**

- Personnel Qualification and Training
- Records
- Quality Improvement/Nonconformances

The following technical elements will be evaluated for compliance with the HWFP, utilizing the checklists in Attachment B6:

**ANL (Argonne)**

- Visual examination (VE)
- Dose-to-Curie (DTC)
- Gravimetric or Dimensional Measurement for Fuel Examination Waste (FEW)

**Carlsbad**

- Project-Level Data Validation and Verification
- Acceptable Knowledge (AK)
- Headspace Gas (HSG) Sampling (document review only)
- Waste certification (e.g., Waste Stream Profile Form)
- WIPP Waste Information System (WWIS)/Waste Data System (WDS)

See the attachment, *Process and Equipment to be Reviewed During Audit A-10-23 of INL/CCP*, for additional details

**Governing Documents/Requirements**

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

Waste Isolation Pilot Plant Hazardous Waste Facility Permit NM4890139088-  
TSDf, New Mexico Environment Department

*Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant,*  
DOE/WIPP-02-3211

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

**Schedule of Audit Activities:**

A pre-audit conference will be held Tuesday, August 3, 2010, at 8:00 a.m. CDT

Management briefings will be held Wednesday, August 4, and Thursday, August 5,  
2010, at 8:30 a.m. CDT

Audit team caucus meetings will be held Tuesday, August 3, and Wednesday,  
August 4, 2010, at 4:00 p.m. CDT

An audit team caucus meeting will be held Thursday, August 5, 2010, at 2:00 p.m.  
CDT

A post-audit conference will be held Thursday, August 5, 2010, at 4:00 p.m. CDT

All meetings will take place at the designated ANL/CCP and CBFO Skeen-Whitlock  
Building locations..

Prepared by:

  
Greg Knox, CTAC  
Audit Team Leader

Date: 1 Jul 2010

Concurrence:

  
Ava L. Holland, Director  
Office of Quality Assurance

Date: 7/1/10

## Process and Equipment to be Reviewed During Audit A-10-23 of the ANL/CCP

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
<b>NEW PROCESSES OR EQUIPMENT</b>				
N/A	Gravimetric or Dimensional Measurement	Debris (S5000)	NA	TBA
<b>PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT</b>				
The following will be reevaluated during CBFO Audit A-10-21				
8HSG2	Headspace Gas Sampling CCP-TP-093, CCP Sampling of TRU Waste Containers	Debris (S5000)	YES	N/A
8RHVE1	Visual Examination CCP-TP-500, Remote-Handled Waste Visual Examination CCP-TP-163, CCP Standard Visual Examination of Records	Debris (S5000)	YES	YES (Records only)
8RHVE2	Visual Examination of Newly Packaged RH Waste Drums CCP-TP-500, Remote-Handled Waste Visual Examination	Debris (S5000)	YES	YES
N/A	Acceptable Knowledge CCP-TP-005, CCP Acceptable Knowledge Documentation	Debris (S5000)	YES	YES
N/A	Data Verification and Validation CCP-TP-001, CCP Project Level Data Validation and Verification CCP-TP-500, Remote-Handled Waste Visual Examination CCP-TP-504, CCP Dose-to-Curie Survey Procedure	Debris (S5000)	YES	YES
8DTC1	Dose-to-Curie CCP-TP-504, CCP Dose-to-Curie Survey Procedure	Debris (S5000)	N/A	YES
N/A	Quality Assurance	N/A	N/A	YES
N/A	WIPP Waste Information System (WISS)	NA	YES	YES

TBA - To Be Audited