



**Department of Energy**  
 Carlsbad Field Office  
 P. O. Box 3090  
 Carlsbad, New Mexico 88221

April 7, 2005

 ENTERED



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: Revised Audit Plan A-05-12 and Notification of Assigned Auditors for the ICP/CCP


Dear Mr. Zappe:

This letter transmits the revised audit plan for the Carlsbad Field Office (CBFO) audit to be conducted at the Idaho Completion Project Central Characterization Project (ICP/CCP) on May 3 - 6, 2005.

The revised plan includes the evaluation of the project level verification and validation of headspace gas data by the Advanced Mixed Waste Treatment Project (AMWTP). The headspace gas data will be from Summa Canister samples collected by CCP and analyzed by the Idaho National Laboratory Analytical Laboratories.

Please contact the CBFO Quality Assurance Manager, Ava L. Holland at (505) 234-7423 should you have any questions concerning this notification.

Sincerely,



Inés R. Triay  
 Acting Manager

Enclosure

cc w/enclosure:

- A. Holland, CBFO \*ED
- D. Miehl, CBFO ED
- K. Watson, CBFO ED
- J. Kieling, NMED ED
- J. Bearzi, NMED ED
- S. Holmes, NMED ED
- R. Raaz, WTS ED
- CBFO QA file
- CBFO M&RC
- WIPP Operating Record, MS486-06

\*ED denotes electronic distribution



**CARLSBAD FIELD OFFICE AUDIT PLAN  
REVISION 1**

**Audit Number:** A-05-12

**Organization to be audited:** Idaho Completion Project (ICP), Bechtel Babcock & Wilcox Idaho (BBWI) Central Characterization Project (CCP), Advanced Mixed Waste Treatment Project (AMWTP), British Nuclear Fuel Limited Incorporated (BNFL)

**Organizations to be notified:** British Nuclear Fuel Limited Incorporated  
Idaho Completion Project  
Bechtel Babcock & Wilcox Idaho  
Washington TRU Solutions LLC (WTS)  
New Mexico Environment Department (NMED)  
Environmental Protection Agency (EPA)  
Defense Nuclear Facilities Safety Board (DNFSB)

**Date and Location:** May 3 - 6, 2005  
Idaho Falls, Idaho

**Audit Team:**

Jimmy Wilburn	Audit Team Leader, CTAC
Sandra Tanner	Auditor, CTAC
Jack Walsh	Auditor, CTAC
Steve Calvert	Auditor, CTAC
P. Y. Martinez	Auditor, CTAC
Earl Bradford	Auditor, CTAC
Jeff May	Auditor, CTAC
Jim Schuetz	Auditor, CTAC
Tammy Bowden	Auditor, CTAC
Lorie Sparks	Auditor, CTAC
Wayne Ledford	RTR & VE Technical Specialist/ Audit and Assessment Manager, CTAC
Jim Oliver	NDA Technical Specialist, CTAC
B. J. Verret	HSG Technical Specialist, CTAC
Dick Blauvelt	AK Technical Specialist, CTAC
Mavis Lin	AK Technical Specialist in Training, CTAC
Charleen Roberts	AK Technical Specialist in Training, CTAC

**Audit Scope:**

The audit team will evaluate the adequacy, implementation, and effectiveness of ICP/CCP transuranic (TRU) waste activities as they relate to the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP) and the Contact Handled Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot

Plant (CH-WAC) for S3000 retrievably stored and newly generated, and S5000 retrievably stored and newly generated, and S4000 newly generated. Additional technical and quality assurance elements will also be evaluated. These activities include those performed by ICP/BBWI or for ICP/BBWI by the WTS Central Characterization Project (CCP). In addition to the overall process for V&V performed by ICP/CCP, the scope also includes evaluation of V&V of data resulting from HSG samples collected by ICP/CCP and analyzed by the INL Analytical Laboratories on behalf of AMWTP. The specific items to be audited are listed below under 'Activities to be audited.'

The ICP/CCP headspace gas and solids sampling and analysis activities for waste form S4000 that are regulated by NMED will be audited on an undetermined date in the third quarter of CY 2005.

### **Activities to be audited:**

The following quality assurance elements will be evaluated:

- Organization
- QA Program
- Personnel Qualification and Training
- Quality Improvement
- Documents & Records
- Procurement
- Grading Program
- Audits/Assessments
- Sample Control
- Software Quality Assurance

The following technical elements will be evaluated:

- Data Validation & Verification
- Acceptable Knowledge
- Nondestructive Assay
- Real Time Radiography
- Visual Examination
- Head Space Gas Sampling and Analysis
- Performance Demonstration Program
- Solid Waste Sampling and Analysis
- Waste Certification (e.g., Waste Stream Profile Form)
- Load Management

- WIPP Waste Information System

See attached 'Process and Equipment to be Reviewed During Audit A-05-12 of ICP/CCP' for additional details.

**Governing Documents/Requirements:**

The overall program adequacy of BBWI/CCP documents will be based on the following documents:

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

*Hazardous Waste Facility Permit Waste Isolation Pilot Plant EPA No. NM4890139088-TSDF* by the New Mexico Environment Department

Contact-Handled Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant (CH-WAC), DOE/WIPP-02-3211

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/BBWI Interface Document*, CCP-PO-024

Related BBWI ICP/CCP Quality Assurance and technical implementing procedures

Related WTS CCP Quality Assurance and technical implementing procedures

Related WTS Quality Assurance implementing procedures

**Schedule of Audit Activities:**

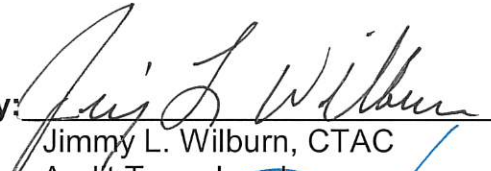
A pre-audit conference will be held Tuesday, May 3, 2005 at 8:00 a.m.

Audit team caucus meetings will be held at 4:30 p.m. Tuesday through Thursday.


Daily management briefings will be held at 8:30 a.m. with the appropriate management Wednesday and Thursday.

A post-audit conference is scheduled for Friday, May 6, 2005 at 11:00 a.m.

All meetings will take place at the designated BBWI location.

Prepared by:   
Jimmy L. Wilburn, CTAC  
Audit Team Leader

Date: 04-06-2005

Concurrence:   
Ava L. Holland, CBFO  
Quality Assurance Manager

Date: 04/06/2005

## Processes and Equipment to be Reviewed During Audit A-05-12 of the ICP/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>				
14HG-A1	Headspace Gas Procedure – CCP-TP-090 Description – HSG-05-Agilent 6890 – HGAS-05	Solids (S3000) Soils (S4000) Debris (S5000)	NO	Not Applicable
14HENC1	Nondestructive Assay Procedure – CCP-TP107 Description – CCP High Efficiency Neutron Counter	Solids (S3000) Soils (S4000) Debris (S5000)	Not Applicable	NO
14TGS1	Nondestructive Assay Procedure – CCP-TP-097 Description – CCP Tomographic Gamma Spectrometer	Solids (S3000) Soils (S4000) Debris (S5000)	Not Applicable	NO
14SGRS1	Nondestructive Assay Procedure – CCP-TP-115 Description – Stored Waste Examination Pilot Plant (SWEPP) Gamma Ray Spectrometer (SGRS)	Solids (S3000) Soils (S4000) Debris (S5000)	Not Applicable	NO
14WAGS1	Nondestructive Assay Procedure – CCP-TP-019 Description – Waste Assay Gamma Spectrometer (WAGS)	Solids (S3000) Soils (S4000) Debris (S5000)	Not Applicable	NO
14VE1	Visual Examination Procedure – CCP-TP-006 Description – Visual Examination Technique(VET)	Solids (S3000) Soils (S4000) Debris (S5000)	NO	NO

## Processes and Equipment to be Reviewed During Audit A-05-12 of the ICP/CCP

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
14RR1	Nondestructive Examination Procedure – CCP-TP-102 Description – MCS Real-time Radiography (RTR) Mobile Characterization (RTR-2) System	Solids (S3000) Soils (S4000) Debris (S5000)	NO	NO
N/A	Acceptable Knowledge	Solids (S3000) Soils (S4000) Debris (S5000)	NO	NO
N/A	Solids/ Soil and Gravel Sampling and Custody	Solids (S3000) Soils (S4000)	NO	Not Applicable
N/A	SUMMA HSG Sampling and Custody	Solids (S3000) Soils (S4000) Debris (S5000)	NO	Not Applicable
N/A	Data Verification and Validation	Solids (S3000) Soils (S4000) Debris (S5000)	NO	NO
N/A	WWIS	Solids (S3000) Soils (S4000) Debris (S5000)	NO	NO
N/A	Quality Assurance Program	Not Applicable	Not Applicable	NO
<b>PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT</b>				
None – this is an initial certification audit				