



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



January 19, 2005

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: Transmittal of the Audit Plan and Notification of Assigned Auditors for the
INEEL, AMWTP Audit

Dear Mr. Zappe:

This letter transmits the audit plan for the Carlsbad Field Office audit to be conducted at the Idaho National Engineering and Environmental Laboratory (INEEL), Advanced Mixed Waste Treatment Project (AMWTP) on March 1-4, 2005, as required by the Waste Isolation Pilot Plant Hazardous Waste Facility Permit, Section B4-3f. The audit plan also identifies the audit team members as required by Section B6-3 of the Permit.

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

Sincerely,

Dr. Inés R. Triay
Acting Manager

Enclosure



Mr. Zappe

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January 19, 2005

cc: w/enclosure

A. Holland, CBFO	*ED
M. Navarrete, CBFO	ED
D. Miehl, CBFO	ED
K. Watson, CBFO	ED
R. McCallister, CBFO	ED
S. Holmes, NMED	ED
J. Bearzi, NMED	ED
J. Kieling, NMED	ED
C. Walker, Consultant	ED
S. Warren, WTS	ED
C. Riggs, CTAC	ED
S. Harrison, CTAC	ED
L. Greene, WRES	ED

WIPP Operating Record, MS 486-06

CBFO QA File

CBFO M&RC

*ED denotes electronic distribution

CARLSBAD FIELD OFFICE CERTIFICATION AUDIT PLAN

Organization: Advanced Mixed Waste Treatment Project (AMWTP)

Organizations British Nuclear Fuel Limited Incorporated (BNFL, Inc.)

To Be notified: New Mexico Environment Department
Environmental Protection Agency
Defense Nuclear Facilities Safety Board

Date and March 1 to March 4, 2005

Location: Idaho Falls, Idaho

Evaluation Team:

Charlie Riggs	Audit Team Leader/CTAC
S. Calvert	Auditor/CTAC
P. Martinez	Auditor/CTAC
N. Frank	Auditor/CTAC
J. May	Auditor/CTAC
T. Bowden	Auditor/CTAC
J. Wilburn	Auditor/CTAC
J. Schuetz	Auditor/CTAC
W. Ledford	Auditor/Technical Specialist/CTAC
D. Scott	Auditor/Technical Specialist/CTAC
J. Eide	Technical Specialist/CTAC
BJ Verret	Technical Specialist/CTAC
D. Blauvelt	Technical Specialist/CTAC
D. Stuenkel	Technical Specialist/CTAC
J. Willis	Transportation Specialist/WTS
T. Sellmer	Transportation Specialist/WTS

Audit Scope: This certification audit will evaluate the adequacy, implementation, and effectiveness of technical and QA processes related to the AMWTP transuranic (TRU) waste characterization and certification activities as they relate to Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP) for Summary Category Group S5000 debris waste. Transportation activities will also be evaluated during the audit. The specific items to be audited are listed below under 'Activities to be audited.'

Activities to be audited:

The following CBFO quality assurance elements will be audited:

- Organization
- Personnel Qualification and Training
- Documents and Records
- Control of Measuring and Test Equipment
- Control of Nonconforming Items

Corrective Action
Software
Work Processes

The following CBFO characterization technical elements will be audited for S5000 Summary Category Groups:

Nondestructive Assay (NDA)
Real Time Radioscopy (RTR)
Visual Examination (VE and VET)
Headspace Gas (HSG) Sampling & Analysis
Data Generation Level & Project Level Verification & Validation (V&V)
Acceptable Knowledge
Gas Generation Testing
Electronic Verification and Validation and Electronic Signature
Off-Site Shipping Module
Waste Analysis Plan (WAP), Section B6

The following CBFO certification technical elements will be audited:

Waste Stream Profile Forms
WIPP Waste Information System (WWIS)
Transportation

See attached 'Process and Equipment to be Reviewed During Audit A-05-08 of AMWTP' for additional details.

Governing Documents/Requirements:

Adequacy of AMWTP documents will be based on the current revisions of the following documents:

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

Waste Analysis Plan (WAP), Attachment B6 of the WIPP Hazardous Waste Facility Permit (HWFP)

Contact-Handled Transuranic Waste Acceptance Criteria (CH-WAC) for the Waste Isolation Pilot Plant, DOE/WIPP-02-3122

TRUPACT-II Safety Analysis Report, TRAMPAC, *and the* TRUPACT-II Certification of Compliance, *NRC 71-9281*

Programmatic and technical checklists will be developed from the active revision of the following documents:

AMWTP Certification Plan for INEEL Contact-Handled Transuranic Waste, MP-TRUW-8.1

AMWTP Certification Plan for INEEL Contact-Handled Transuranic Waste, MP-TRUW-8.1

AMWTP Quality Assurance Project Plan (QAPjP), MP-TRUW-8.2

TRUPACT-II Authorized Methods for Payload Control (TRAMPAC), MP-TRUW-8.3

AMWTP QAPjP For Gas Generation Testing Program, MP-TRUW-8.4

Related AMWTP technical and quality assurance implementing procedures

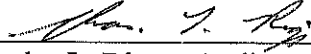
Schedule of Audit Activities:

A pre-audit conference is scheduled for Tuesday, March 1, at 7:00 a.m. at the AMWTP.

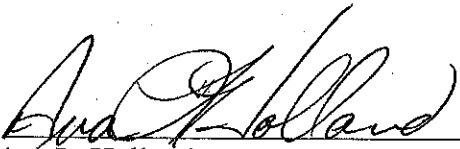
Audit team caucuses will be held at 5:00 p.m. Tuesday through Thursday at the AMWTP location.

The audit team leader will meet with the appropriate AMWTP management at 8:30 a.m. Wednesday and Thursday at the AMWTP location.

A post-audit conference is scheduled for Friday, March 4 at 10:00 a.m. at the AMWTP location.

Approved By: 
Charles L. Riggs, Audit Team Leader, CTAC

Date: 1/19/05

Approved By: 
Ava L. Holland
Quality Assurance Manager

Date: 1/19/05

Process and Equipment to be Reviewed During Audit A-05-08 of the AMWTP

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				
9HG4	Headspace Gas Procedure – INST-OI-43 Description – CTI Headspace Gas Sampling System – Unit 001	Solids (S3000) Soils (S4000) Debris (S5000)	YES ¹	N/A
9HG5	Headspace Gas Procedure – INST-OI-43 Description – CTI Headspace Gas Sampling System – Unit 002	Solids (S3000) Soils (S4000) Debris (S5000)	YES ¹	N/A
9HG6	Headspace Gas Procedure – INST-OI-43 Description – CTI Headspace Gas Sampling System – Unit 004	Solids (S3000) Soils (S4000) Debris (S5000)	YES ¹	N/A
9HG7	Headspace Gas Procedure – INST-OI-43 Description – CTI Headspace Gas Sampling System – Unit 005	Solids (S3000) Soils (S4000) Debris (S5000)	YES ¹	N/A
9DA1	Nondestructive Assay Procedure – INST-OI-14 Description – Canberra Drum Assay System	Solids (S3000) Debris (S5000)	N/A	NO ²
9DA2	Nondestructive Assay Procedure – INST-OI-14 Description – Canberra Drum Assay System	Solids (S3000) Debris (S5000)	N/A	NO ²
9DA3	Nondestructive Assay Procedure – INST-FOI-01	Debris (S5000)	N/A	NO

¹ Approved by the NMED for Summary Category Group, not certified by CBFO

² Previously approved for Summary Category Group S3000

Process and Equipment to be Reviewed During Audit A-05-08 of the AMWTP

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
	Description – Canberra Drum Assay System			
9DA4	Nondestructive Assay Procedure – INST-FOI-01 Description – Canberra Drum Assay System	Debris (S5000)	N/A	NO
9VE4	Visual Examination Procedure – INST-FOI-17 Description – RTR Verification Visual Examination (VVE)	Debris (S5000)	NO	NO
9VE5	Visual Examination Procedure – INST-FOI-17 Description – Visual Examination (in lieu of RTR) (VEC)	Debris (S5000)	NO	NO
9VE6	Visual Examination Procedure – INST-FOI-17 Description – Newly Generated Waste Visual Examination Closure (VNC)	Debris (S5000)	NO	NO
9VE7	Visual Examination Procedure – INST-FOI-17 Description – Box Line Visual Examination (VEB) – Box to a drum repackaging	Debris (S5000)	NO	NO
9VE8	Visual Examination Procedure – INST-FOI-17 Description – Box Line Visual Examination (VEB) – Drum to a new drum repackaging	Debris (S5000)	NO	NO
9GG1	Gas Generation Testing	Solids (S3000)		

Process and Equipment to be Reviewed During Audit A-05-08 of the AMWTP

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
	Procedure – INST-OI-18 Description – Mobile Gas Analysis System – Unit 1	Soils (S4000) Debris (S5000)	N/A	N/A
9GG2	Gas Generation Testing Procedure – INST-OI-18 Description – Mobile Gas Analysis System – Unit 2	Solids (S3000) Soils (S4000) Debris (S5000)	N/A	N/A
9RR1	Nondestructive Examination Procedure – INST-OI-12 Description – Real Time Radiography (RTR) System	Solids (S3000), Debris (S5000)	NO ²	NO ²
9RR2	Nondestructive Examination Procedure – INST-OI-12 Description – Real Time Radiography System	Solids (S3000), Debris (S5000)	NO ²	NO ²
N/A	Data Verification and Validation	Solids (S3000), Debris (S5000)	NO ²	NO ²
N/A	WWIS	Solids (S3000), Debris (S5000)	NO ²	NO ²
N/A	Quality Assurance Program	N/A	N/A	YES
PREVIOUSLY APPROVED PROCESSES OR EQUIPMENT				
This audit is to certify AMWTP for Summary Category Group S5000 Debris Waste				
N/A	Transportation	N/A	N/A	N/A

² Previously approved for Summary Category Group S3000