

United States Government

# memorandum

Carlsbad Field Office  
Carlsbad, New Mexico 88221

DATE: March 20, 2002

REPLY TO  
ATTN OF: CBFO:QA:ALH:GS:02-1003:UFC 2300.00

SUBJECT: Audit A-02-21 of Idaho National Engineering and Environmental Laboratory (INEEL)

TO: Edward Ziemianski, ID



Please be advised that a team of auditors from the Carlsbad Field Office (CBFO) will conduct an audit of INEEL's new equipment/capabilities, including:

- Absolute assay modes for the Waste Assay Gamma Spectrometer (WAGS) system and SWEPP Gamma Ray Spectrometer (SGRS) system including NDA software for all NDA systems.
- Data Review Expert System (DXRS) for NDA validation
- Solidified organic waste streams for NDA characterization and certification

The audit will be conducted on April 9 - 11 2002 in accordance with the attached audit plan. Representatives from the US Environmental Protection Agency (EPA), and the Environmental Evaluation Group (EEG) may be present or participate in this audit.

Your representatives are requested to coordinate with the audit team to develop the necessary documentation for team access to INEEL facilities, arrange for appropriate space to conduct meetings, provide cognizant personnel to support the audit, and provide the audit team with access to appropriate documentation and records.

If you have any questions or comments concerning the audit, please contact me at (505) 234-7423.

Ava L. Holland  
Quality Assurance Manager

Attachment

020319



cc w/attachment:

K. Watson, CBFO	*ED
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## CARLSBAD FIELD OFFICE AUDIT PLAN

**Audit Number:** A-02-21

**Organization to be Audited:** Idaho National Engineering and Environmental Laboratory (INEEL)

**Organizations to be notified:** Idaho National Engineering and Environmental Laboratory (INEEL)  
Environmental Protection Agency (EPA)  
Environmental Evaluation Group (EEG)  
Defense Nuclear Facilities Safety Board (DNFSB)

**Date and Location:** April 9-11, 2002  
Idaho National Engineering and Environmental Laboratory (INEEL)  
Idaho Falls, Idaho

**Audit Team:**

Jeff May	Audit Team Leader
Amy Arceo	Auditor, CTAC
Norm Frank	Auditor, CTAC
Patrick Kelly	NDA Technical Specialist, CTAC

### Audit Scope:

The audit will evaluate the adequacy, implementation, and effectiveness of selected technical activities related to the INEEL TRU waste characterization and certification programs. This audit will include the evaluation of the following activities:

- Absolute assay modes for the Stored Waste Examination Pilot Plant (SWEPP) Waste Assay Gamma Spectrometer (WAGS) system and SWEPP Gamma Ray Spectrometer (SGRS) system including NDA software for all NDA systems.
- Data Review Expert System (DXRS) for NDA validation.
- Solidified organic waste streams for NDA characterization and certification.

The EPA will perform an inspection of the CBFO audit of the absolute NDA processes, the Data Review Expert System, and the extension of INEEL's certification to include solidified organic waste streams.

### Governing Documents/Requirements:

The determination of the adequacy, implementation, and effectiveness for the selected technical activities will be based on the current revisions of the following documents:

Quality Assurance Program Document (QAPD), CAO-94-1012, Section 6.0, and

Waste Acceptance Criteria for the Waste Isolation Pilot Plant (WAC), DOE/WIPP-069, Current Revision.

Programmatic and technical Checklists will be developed from the current revisions of the following documents:

INEEL Site Project Office Quality Assurance Project Plan (QAPjP) for the Transuranic Characterization Program, PLN-190;

Program Plan for Certification of INEEL Contact-Handled Stored Transuranic Waste, PLN-579;

TPR-1767, Rev. 0 - RWMC Data Generation Level Data Validation;

TPR-1768, Rev. 0 - SWEPP Waste Assay Gamma Spectrometer (WAGS) Absolute System;

MCP-1815, Rev. 17 - RWMC Data Generation Level Data Validation;

MCP-2991, Rev. 5 - Radioassay Total Uncertainty Process Using Statistical Sampling Approach;

QTP-011, Rev. 15 - SWEPP Gamma-Ray Spectrometer Systems;

QTP-031, Rev. 0 - SWEPP Waste Assay Gamma Spectrometer (WAGS) Absolute System;

TPR-1588, Rev. 31 - SWEPP Gamma-Ray Spectrometer System;

TPR-1719, Rev. 17 - Calibration of SWEPP Radioassay Systems;

QTP-004, Rev. 13 - Passive-Active Neutron (PAN) Drum Assay System;

TPR-1654, Rev. 7 - SWEPP Waste Assay Gamma Spectrometer (WAGS) System;

TPR-1573, Rev. 40 - Passive-Active Neutron Drum Assay System; and,

MCP-1803, Rev. 15 - Configuration Control of RWMC Hardware/Software Computer Systems.

**Activities to be Audited:**

The following CBFO quality assurance element will be evaluated:

- Software QA (NDA)

The following CBFO Characterization technical elements will be evaluated:

- Absolute assay modes for the Waste Assay Gamma Spectrometer (WAGS) system and SWEPP Gamma Ray Spectrometer (SGRS) system including NDA software for all NDA systems.
- Data Review Expert System (DXRS) for NDA validation.
- Solidified organic waste streams for NDA characterization and certification.

**Schedule of Audit Activities:**

A pre-audit conference is scheduled for Tuesday, April 9, at 8:00 a.m. at the RWMC location.

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

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

A post-audit conference is scheduled for Thursday, April 11, at 4:00 p.m. at the RWMC location.

**Prepared by:** \_\_\_\_\_

Jeffrey D. May, CTAC  
Audit Team Leader

**Date:** \_\_\_\_\_

**Approved by:** \_\_\_\_\_

Ava L. Holland,  
Quality Assurance Manager

**Date:** \_\_\_\_\_