

United States Government

Department of Energy

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

**DATE:** August 31, 1998  
**REPLY TO  
ATTN OF:** CAO:QA:SAV 98-0991 UFC 2300  
**SUBJECT:** Audit (A-98-30) of Los Alamos National Laboratory (LANL) TRU Waste Characterization, Certification, and Transportation Programs  
**TO:** Bruce LeBrun, LAAO

Please be advised that a team of auditors from the Carlsbad Area Office (CAO) will conduct an audit at LANL September 21 - 25, 1998. The audit will be conducted in accordance with the attached audit plan. Inspectors from the Environmental Protection Agency and observers from other interested parties may also accompany the audit team.

Your representatives are requested to coordinate with the audit team to develop the necessary documentation for team access to LANL 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 Butch Stroud at (505) 234-7483 or me at (505) 234-7484.



R. Dennis Brown  
Quality Assurance Manager

Attachment



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Bruce LeBrun

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cc w/attachment:

D. Feck, FM-10

G. Basabilvazo, CAO

K. Hunter, CAO

M. Italiano, CAO

B. Stroud, CAO

S. Vega, CAO

M. Gavett, LANL

I. Triay, LANL

T. Bowden, CTAC

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B. Walker, EEG

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J. Oliver, EPA

✓ S. Zappe, NMED

J. Stroble, WID



## CARLSBAD AREA OFFICE AUDIT PLAN

**Audit Number:** A-98-30

**Organization:** Los Alamos National Laboratory (LANL)

**Date and** September 21 to 25, 1998

**Location:** Los Alamos, New Mexico

**Audit Team:**

|                |                                    |
|----------------|------------------------------------|
| Butch Stroud   | CAO Certification Manager          |
| Sam Vega       | CAO Audit Team Leader              |
| Lea Chism      | Auditor/CAO                        |
| Steve Calvert  | Auditor/CTAC                       |
| Larry Dell     | Auditor/CTAC                       |
| Jeff May       | Auditor/CTAC                       |
| Pete Rodriguez | Auditor/CTAC                       |
| Dee Scott      | Auditor/CTAC                       |
| Jack Walsh     | Auditor/CTAC                       |
| Jim Bresson    | Technical Specialist/CTAC          |
| Mark Doherty   | Technical Specialist/CTAC          |
| Alan Williams  | Technical Specialist/CTAC          |
| Bill Weston    | Technical Specialist/WID           |
| Tom Ward       | Technical Specialist/WID           |
| Dave Camp      | Technical Specialist (in training) |

**Audit Scope:** The audit will evaluate the adequacy and implementation of technical and quality assurance activities related to LANL Transuranic Waste Characterization, Certification, and Transportation Programs.

### **Activities/Tasks to be Audited:**

The following CAO quality assurance (QAPD) elements will be evaluated:

- Organization/QA Program Implementation
- Personnel Qualification and Training
- Quality Improvement QA Grading
- Documents and Records
- Work Processes
- Procurement
- Control of Measuring and Test Equipment
- Control of Nonconforming Items
- Corrective Action
- Assessments/Audits
- Sample Control

Data Documentation, Control, and Validation  
Software Requirements

The following CAO Characterization (QAPP) technical elements will be evaluated:

- Sampling Process Design
- Sampling - Headspace Gas
- Nondestructive Assay (NDA)
- Real Time Radioscopy (RTR)
- Visual Examination
- Analysis - Headspace Gas
- Data Validation, Usability, and Reporting
- Acceptable Knowledge (AK)
- Performance Demonstration Program (PDP)

The following CAO Transportation technical elements will be evaluated:

- Inspection of Packaging
- Payload Certification
- Preparation and Loading
- Shipping
- Packaging Maintenance

The following CAO Certification (WAC) technical elements will be evaluated:

- WIPP Waste Information System (WWIS)

**Governing Documents/Requirements:**

Adequacy evaluations of LANL TWCP documents will be based on the current revisions of the following documents:

CAO Quality Assurance Program Document, CAO-94-1012

Transuranic Waste Characterization Quality Assurance Program Plan,  
CAO-94-1010

Waste Acceptance Criteria for the Waste Isolation Pilot Plant, DOE/WIPP-069

Safety Analysis Report for TRUPACT-II Shipping Package, Appendix 1.3.7,  
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:

LANL Transuranic Waste Quality Assurance Project Plan (QAPjP), TWCP-PLAN-0.2.3-001

LANL Transuranic Waste Certification Plan, PLAN-CSTDO-004

Related LANL technical and quality assurance implementing procedures

CAO Corrective Action Report (CAR) 98-034 from surveillance S-98-18

**Schedule of Audit Activities:**

A pre-audit conference is scheduled for Monday, September 21, at 1:00 p.m. at TA-48, Building RC-29, conference room 118.

Audit team caucuses will be held at 4:00 p.m. Monday through Thursday at the TA-48 location.

The audit team will meet with the appropriate LANL management at 8:30 a.m. Tuesday, Wednesday, and Thursday at the TA-48 location.

A post-audit conference is scheduled for Friday, September 25, at 4:00 p.m. at the TA-48 location.

Prepared By: Samuel A. Vega  
Samuel A. Vega, Audit Team Leader

Date: 8/27/98

Approved By: Robert A. Stroud  
Robert A. Stroud, CAO Certification Manager

Date: 8/27/98

Approved By: R. Dennis Brown  
R. Dennis Brown, CAO QA Manager

Date: 8/31/99