

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

QUALITY ASSURANCE AUDIT PLAN

FOR AUDIT NO. YMP-93-04

OF

LAWRENCE LIVERMORE NATIONAL LABORATORY

LIVERMORE, CALIFORNIA

JANUARY 11 THROUGH 15, 1993

Prepared by: Amelia I. Arceo Date: 12/1/92
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Yucca Mountain Quality Assurance Division

Approved by: Donald G. Horton Date: 12/2/92
Donald G. Horton
Director
Office of Quality Assurance

1.0 SCOPE

This audit, to be performed by a team of auditors from the Yucca Mountain Quality Assurance Division (YMQAD), will evaluate the Lawrence Livermore National Laboratory (LLNL) Quality Assurance (QA) Program to determine whether it meets the requirements and commitments imposed by the Office of Civilian Radioactive Waste Management. This will be done by verifying implementation and effectiveness of the system in place, as well as verifying compliance with requirements.

In addition to the follow-up on open Corrective Action Requests, a representative sample of discrepancies identified during previous QA audits and surveillances of LLNL will be included in the scope of this audit to determine the effectiveness of LLNL's corrective actions.

The programmatic elements to be audited, as well as those programmatic elements not included in this audit, are identified in Section 4.0 of this plan.

2.0 AUDIT SCHEDULE

Pre-Audit Team/Observers Meeting	8:30 a.m., January 11, 1993 Livermore, California
Pre-Audit Conference	9:00 a.m., January 11, 1993 Livermore, California
Audit Activities	10:00 a.m. to 4:00 p.m. January 11, 1993 Livermore, California
	8:00 a.m. to 4:00 p.m. January 12-14, 1993 Livermore, California
	8:00 a.m. to 11:00 a.m. January 15, 1993 Livermore, California
Post-Audit Conference	11:00 a.m., January 15, 1993 Livermore, California

There will be daily YMQAD Audit Team/Observer caucus starting at 4:15 p.m. and also daily Audit Team Leader/Observer/LLNL meetings starting at 8:15 a.m. to discuss potential deficiencies and establish needed liaison.

3.0 REQUIREMENTS TO BE AUDITED AND APPLICABLE REFERENCES

The requirements to be audited will be contained in the programmatic checklists. These checklists will be developed from the latest available revision of the following documents:

- LLNL Quality Assurance Program Plan and implementing procedures
- Applicable Yucca Mountain Site Characterization Project Office Administrative Procedures-Quality

The conduct of the audit will be guided by the documents listed below:

- Quality Assurance Administrative Procedure (QAAP) 18.2, Revision 5, ICN 1, "Audit Program"
- QAAP 16.1, Revision 4, "Corrective Action"

4.0 ACTIVITIES TO BE AUDITED

- 1.0 Organization
- 2.0 Quality Assurance Program
- 5.0 Instructions, Procedures, Plans, and Drawings
- 6.0 Document Control
- 12.0 Control of Measuring and Test Equipment
- 13.0 Handling, Shipping and Storage
- 16.0 Corrective Action
- 17.0 Quality Assurance Records
- 18.0 Audits

The following programmatic element was considered during development of this audit scope and determined to be not applicable since LLNL has no activities for which this element applies:

9.0 Control of Processes

If the audit team identifies a need to verify additional programmatic areas during the audit, they will be added to the audit scope and verified accordingly.

Technical Areas

None

5.0 AUDIT TEAM MEMBERS

Amelia I. Arceo, Audit Team Leader, YMQAD, Las Vegas, Nevada
A. Edward Cocoros, Auditor, YMQAD, Las Vegas, Nevada
Mario R. Diaz, Auditor, YMQAD, Las Vegas, Nevada

6.0 AUDIT CHECKLIST

YMP-93-04-01, Programmatic Checklist, will be used during this audit.