

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

QUALITY ASSURANCE AUDIT PLAN

FOR AUDIT YMP-93-10

OF

UNITED STATES GEOLOGICAL SURVEY

DENVER, COLORADO

JUNE 14-18, 1993

Prepared by:

Richard L. Maudlin

Date: 05-21-93

Richard L. Maudlin
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Yucca Mountain Quality Assurance Division

Approved by:

Donald G. Horton For

Date: 5/25/93

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 U. S. Geological Survey (USGS) Quality Assurance (QA) Program to determine whether it meets the requirements and commitments imposed by the Office of Civilian Radioactive Waste Management (OCRWM). This will be done by verifying implementation and effectiveness of the system in place, as well as verifying compliance with requirements.

In addition to follow-up on open Corrective Action Requests (CARs), a representative sample of deficiencies identified during previous QA audits and surveillances of USGS will be included in the scope of this audit to determine the effectiveness of USGS 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/Observer Meeting	8:00 a.m., June 14, 1993 Denver, Colorado
Pre-audit Conference	9:00 a.m., June 14, 1993 Denver, Colorado
Audit Activities	10:00 a.m. to 4:00 p.m. June 14, 1993 8:00 a.m. to 4:00 p.m. June 15-17, 1993 8:00 a.m. to 11:30 a.m. June 18, 1993
Post-audit Conference	2:00 p.m., June 18, 1993 Denver, Colorado

There will be daily YMQAD audit team/observer meetings starting at 4:15 p.m. and also a daily Audit Team Leader/Observer/USGS meeting 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 checklist. This checklist will be developed from the latest available revision of the following documents.

- USGS Quality Assurance Program Plan (YMP-USGS-QAPP-01), and implementing procedures.
- Applicable Yucca Mountain Site Characterization Project Office Administrative Procedures-Quality.

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

- Quality Assurance Administrative Procedure (QAAP) 18.2, "Audit Program"
- QAAP 16.1, "Corrective Action Requests"

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 USGS has no activities for which this element applies:

9.0 Control of Processes

Other programmatic elements were covered in previous audits during Fiscal Year 1993.

If the audit team identifies a need to verify additional program elements during the audit, they will be added to the audit checklist and verified accordingly.

5.0 AUDIT TEAM MEMBERS

Richard L. Maudlin, YMQAD, Las Vegas, NV, Audit Team Leader
Jim Blaylock, YMQAD, Las Vegas, NV, Auditor
Robert Harpster, YMQAD, Las Vegas, NV, Auditor
Charles Warren, YMQAD, Las Vegas, NV, Auditor

6.0 AUDIT CHECKLISTS

The following checklist will be used in conjunction with this audit:

YMP-93-10-01, Programmatic Checklist