

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

QUALITY ASSURANCE AUDIT PLAN


FOR AUDIT YM-ARP-95-12


OF

UNITED STATES GEOLOGICAL SURVEY

DENVER, COLORADO

JUNE 8 THROUGH 16, 1995

Prepared by:  Date: 5/17/95
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Yucca Mountain Quality Assurance Division

Approved by:  Date: 5/18/95
Donald G. Horton
Director
Office of Quality Assurance

1.0 SCOPE

This performance based audit of the United States Geological Survey (USGS) is a limited scope audit to be performed by a team of auditors from the Yucca Mountain Quality Assurance Division (YMQAD). The audit team will evaluate the effectiveness of selected processes, and the quality of the resultant end products identified in Section 4.0 of this plan associated with USGS activities, performed under its Quality Assurance Program, Supplement III and the Site Characterization Plan for Quaternary Faulting activities.

2.0 AUDIT SCHEDULE

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| Field Audit (Times to be coordinated with site personnel) | June 8-9, 1995 Yucca Mountain Site |
| Field Pre-Audit Conference | 10:00 a.m., June 8, 1995 |
| Pre-audit Team/Observer Meeting | 8:00 a.m., June 13, 1995 Denver, Colorado |
| Pre-audit Conference | 9:00 a.m., June 13, 1995 Denver, Colorado |
| Audit Activities | 10:00 a.m. to 4:00 p.m. June 13, 1995 Denver, Colorado |
| | 8:00 a.m. to 4:00 p.m. June 14-15, 1995 |
| | 8:00 a.m. to 11:30 a.m. June 16, 1995 |
| Post-audit Conference | 2:00 p.m., June 16, 1995 Denver, Colorado |

An Audit Team/Observer meeting at 4:00 p.m. and Audit Team Leader (ATL) Observer/USGS management meeting at 8:15 a.m. will be held daily to communicate audit progress and 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 a performance based checklist. This checklist will be developed based on the critical process steps relative to Quaternary Faulting with the site areas as agreed upon with the USGS management.

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

- Quality Assurance Procedure (QAP) 18.2, "Audit Program"
- QAP 16.1, "Corrective Action"

4.0 ACTIVITIES TO BE AUDITED

The audit team will evaluate the process and products resulting from the Quaternary Faulting Studies that have been selected for a performance based audit, and evaluate the products and activities to determine the degree to which they meet the critical process steps of the program, management commitments, and expectations.

This evaluation of process effectiveness and product acceptability will be based upon:

1. Satisfactory implementation of the critical process steps.
2. Use of trained and qualified personnel working effectively.
3. Documentation that substantiates quality of the products.
4. Acceptable results and adequate end products.

5.0 AUDIT TEAM MEMBERS

Kenneth O. Gilkerson, YMQAD, Las Vegas, Nevada, ATL

James Blaylock, YMQAD, Las Vegas, Nevada, Auditor

Robert E. Harpster, YMQAD, Las Vegas, Nevada, Auditor

Jefferson McCleary, Civilian Radioactive Waste Management System Management and Operating Contractor/Woodward Clyde, Las Vegas, Nevada, Technical Specialist

6.0 AUDIT CHECKLISTS

The following checklist will be used during the audit:

YM-ARP-95-12, Performance Based Checklist