

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

QUALITY ASSURANCE AUDIT PLAN

FOR AUDIT YMP-93-07

OF

CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM

MANAGEMENT AND OPERATING CONTRACTOR

LAS VEGAS, NEVADA

MARCH 1 THROUGH 5, 1993

Prepared by:

*R E Powe*

Date:

*1/21/93*

Richard E. Powe  
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Yucca Mountain Quality Assurance Division

Approved by:

*D G Horton For*

Date:

*1/22/93*

Donald G. Horton  
Director  
Office of Quality Assurance

## 1.0 SCOPE

This audit, performed by a team of auditors from the Yucca Mountain Quality Assurance Division (YMQAD), will evaluate the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) 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 a follow-up on any open Corrective Action Requests, a representative sample of discrepancies identified during previous QA surveillances of the CRWMS M&O, will be included in the scope of this audit to determine the effectiveness of CRWMS M&O corrective actions.

The programmatic elements to be audited, as well as those programmatic elements considered but 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., March 1, 1993 Las Vegas, Nevada
Pre-Audit Conference	9:30 a.m., March 1, 1993 Las Vegas, Nevada
Audit Activities	10:30 a.m. to 4:00 p.m. March 1, 1993
Audit Activities	8:00 a.m. to 4:00 p.m. March 2-4, 1993
Audit Activities	8:00 a.m. to 10:30 a.m. March 5, 1993
Post-Audit Conference	2:00 p.m., March 5, 1993 Las Vegas, Nevada

There will be a daily YMQAD audit team/observer meeting starting at 4:00 pm, and also a daily Audit Team Leader/observer/CRWMS M&O meeting starting at 8:30 am 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:

- CRWMS M&O Quality Assurance Program Description (QAPD) A00000000-AA-06-00042-03, Revision 3, and implementing procedures
- Applicable Yucca Mountain Site Characterization Project Office Administrative Procedures - Quality

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

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

### 4.0 ACTIVITIES TO BE AUDITED

#### Programmatic Elements

- 1.0 Organization
- 2.0 Quality Assurance Program
- 5.0 Plans, Procedures, and Drawings
- 6.0 Document Control
- 16.0 Corrective Action
- 17.0 Quality Assurance Records
- 18.0 Audits

The following programmatic elements were considered during development of this audit plan and determined to be not applicable, since the CRWMS M&O currently has no activities for which these elements apply:

- 9.0 Control of Processes
- 12.0 Control of Measuring and Test Equipment
- 13.0 Handling, Storage, and Shipping

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

**5.0 AUDIT TEAM MEMBERS**

Richard E. Powe - Audit Team Leader, YMQAD, Las Vegas, Nevada  
Gerard Heaney - Audit Team Leader-in-Training, YMQAD, Las Vegas, Nevada  
Stephen D. Harris - Auditor, YMQAD, Las Vegas, Nevada  
Sam H. Horton - Auditor, YMQAD, Las Vegas, Nevada

**6.0 AUDIT CHECKLIST**

The following checklist will be used during this audit:

YMP-93-07-01, Programmatic Checklist