

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

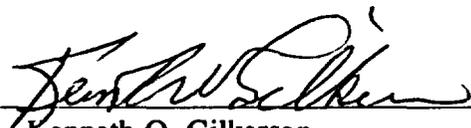
QUALITY ASSURANCE AUDIT PLAN

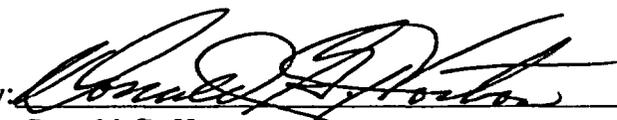
FOR AUDIT YMP-94-01

OF

CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM
MANAGEMENT AND OPERATING CONTRACTOR

LAS VEGAS, NEVADA

Prepared by:  Date: 6/27/94
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Yucca Mountain Quality Assurance Division

Approved by:  Date: 7/1/94
Donald G. Horton
Director
Office Of Quality Assurance

1.0 SCOPE

This performance based audit of the Civilian Radioactive Waste Management System Management and Operating (CRWMS M&O) contractor will be a limited scope audit, performed by a team of auditors from the Yucca Mountain Quality Assurance Division (YMQAD) and Headquarters Quality Assurance Division (HQQAD) and a technical specialist. 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 M&O activities performed under Quality Assurance (QA) Program Element 3.0, "Design Control."

2.0 AUDIT SCHEDULE

Preaudit Team/Observer Meeting	8:00 a.m., July 25, 1994 Las Vegas, Nevada
Preaudit Conference	9:00 a.m., July 25, 1994 Las Vegas, Nevada
Audit Activities	10:00 a.m. to 4:00 p.m. July 25, 1994
	8:00 a.m. to 4:00 p.m. July 26 through 28, 1994
	8:00 a.m. to 11:30 a.m. July 29, 1994
Postaudit Conference	2:00 p.m., July 29, 1994 Las Vegas, Nevada

There will be a daily YMQAD Audit Team/Observer meeting at 4:00 p.m. and also a daily ATL/Observer M&O 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 a performance based checklist. This checklist will be developed from the latest revision of the M&O's approved and issued QA program procedures applicable to selected design control processes and performance objectives established and agreed upon with M&O management.

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

- Quality Assurance Procedure (QAP) 18.2, Revision 6, "Audit Program"
- QAP 16.1, Revision 5, "Corrective Action"

4.0 ACTIVITIES TO BE AUDITED

The audit team will evaluate the effectiveness of the following processes in meeting program requirements and management commitments and expectations:

- 1) Development and preparation of design documents; and
- 2) Issuance of acceptable design packages for construction

The deliverable (end product) resulting from the above processes that have been selected for evaluation is Design Package 2C, "Tonopah Spring North Ramp".

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

- 1) Proper implementation of the critical process steps;
- 2) Accomplishing performance objectives e.g. meeting project milestones without sacrificing product quality while maintaining safety, quality and cost conscious attitudes during performance;
- 3) Use of trained and qualified personnel working effectively;
- 4) Documentation that substantiates quality of the products; and
- 5) Acceptable results and quality of the end products.

5.0 AUDIT TEAM MEMBERS

Kenneth O. Gilkerson, YMQAD/Quality Assurance Technical Support Services (QATSS), Las Vegas, Nevada, Audit Team Leader
Stephen R. Dana, YMQAD/QATSS, Las Vegas, Nevada, Auditor
Frank Kratzinger, YMQAD/QATSS, Las Vegas, Nevada, Auditor
Neil Cox, YMQAD/QATSS, Las Vegas, Nevada, Auditor
John Pelletier, YMQAD/QATSS, Las Vegas, Nevada, Auditor
Robert L. Howard, YMQAD/QATSS, Las Vegas, Nevada, Auditor
Richard G. Peck, YMQAD/QATSS, Washington D.C., Auditor
William Sublette, Science Applications International Corporation, Las Vegas, Nevada, Technical Specialist

6.0 AUDIT CHECKLIST

YMP-94-01-01, Performance Based Checklist, will be used during this audit.