

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

QUALITY ASSURANCE AUDIT PLAN

FOR CNWRA (INTERNAL) AUDIT 93-1

OF

THE CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

SAN ANTONIO, TEXAS

MAY 4-7, 1993

Prepared by *L. Brent* Date *2/24/93*

Approved by *Bruce Malambo* Date *2/24/93*

1. AUDIT SCOPE

This audit will evaluate the CNWRA QA program to determine whether it meets the applicable requirements of 10 CFR Part 50, Appendix B. This will be done by verifying implementation and effectiveness of the CNWRA QA program, as well as verifying compliance with requirements. Corrective Action Requests initiated during Audit 92-1 (June 2-5, 1992) and since will be reviewed to determine the effectiveness of corrective actions. This will be a performance-based audit, evaluating programmatic requirements in light of their application to technical activities.

2. ACTIVITIES TO BE AUDITED

<u>10 CFR Part 50, Appendix B Criteria</u>	<u>Corresponding COAM Chapter</u>
I Organization	1
II QA Program	2
Scientific Investigation & Analysis Control	3
IV Procurement Document Control	7
V Instructions, Drawings, & Procedures	5
VI Document Control	6
VII Control of Purchased Material	7
VIII Identification and Control of Items	8
IX Control of Processes	9
XII Control of Measuring and Test Equipment	12
XIII Handling, Storage, and Shipping	13
XV Nonconformance Control	15
XVI Corrective Action	16
XVII Records Control	17
XVIII Audits	18

Design-related activities are not performed by the CNWRA, so 10 CFR 50, Appendix B Criteria III, X, XI, and XIV are not applicable.

<u>Technical Activity</u>	<u>Project Number</u>
Repository Design, Construction & Operation	20-5702-022, -023
Seismic Rock Mechanics Research	20-5704-032, -033, -034, -035, -039
Integrated Waste Package Experiments Research	20-5704-042, -043
Stochastic Flow and Transport Research	20-5704-053, -055
Performance Assessment Research	20-5704-191, -192, -193
Volcanology Research	20-5704-121, -122

The audits of the technical activities shall evaluate (i) the technical qualifications of scientific investigation personnel, (ii) their understanding of procedural requirements as they pertain to technical activities, (iii) the adequacy of technical procedures, and (iv) the development of technical reports, supporting documentation, and other work products.

3. ORGANIZATIONS TO BE AUDITED

The CNWRA and SwRI organizations directly supporting the CNWRA (calibration labs, testing facilities, etc.) shall be included in this audit.

4. AUDIT TEAM

The audit team will be staffed with NQA-1 qualified lead auditors and auditors from the SwRI Quality Assurance Department. Technical Specialists shall be independent of the activities to be audited, technically qualified, and shall be trained in auditing techniques. The audit team will consist of:

T. Trbovich Audit Team Leader

The balance of the audit team (auditors and technical specialists) shall be identified at a later date.

5. APPLICABLE DOCUMENTS

CNWRA QA Manual
CNWRA QA Procedures (QAPs)
Applicable CNWRA Technical Operating Procedures (TOPs)
Applicable portions of the CNWRA Operations Plans for the Division of High-Level Waste Management
Applicable CNWRA Research Project Plans
Title 10, Code of Federal Regulations, Part 50, Appendix B

6. TENTATIVE SCHEDULE FOR AUDIT ACTIVITIES

May 4, 1993, 8:30 a.m.	Audit Team/Observer Meeting
May 4, 1993, 9:00 a.m.	Audit Entrance Meeting
May 4, 1993, 9:30 a.m. - 4:00 p.m.	Auditing
May 5-6, 1993, 8:30 a.m. - 4:00 p.m.	Auditing
May 7, 1993, 8:30 a.m. - 1:30 p.m.	Auditing
May 7, 1993, 2:00 p.m.	Audit Exit Meeting

Daily caucuses with the Audit Team and observers will be held at 4:00 p.m. Daily meetings with the Audit Team Leader and CNWRA management will be held at 8:00 a.m.

7. AUDIT PROCEDURE AND CHECKLIST

The audit shall be conducted in accordance with QAP-011. Checklists for programmatic requirements and technical activities shall be prepared and available for NRC review prior to the beginning of the audit.

8. OBSERVERS

This audit may be observed by QA and technical representatives from the NRC.