

**OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**QUALITY ASSURANCE AUDIT PLAN**

**FOR AUDIT YMP-95-01**

**OF**

**REYNOLDS ELECTRICAL AND ENGINEERING COMPANY, INC.**

**LAS VEGAS, NEVADA AND THE NEVADA TEST SITE**

**OCTOBER 24 THROUGH 28, 1994**

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Yucca Mountain Quality Assurance Division

Approved by: Donald G. Horton Date: 9/16/94  
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**ENCLOSURE**

**1.0 SCOPE**

This performance based audit of Reynolds Electrical and Engineering Company, Inc. (REECo) will be 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 REECo activities performed under Quality Assurance (QA) Program Elements 2.0 "Surveillances," 10.0 "Inspection," 16.0 "Corrective Action," 18.0 "Audits," and applicable QA program elements based on the work scope involved.

**2.0 AUDIT SCHEDULE**

|                                 |  |
|---------------------------------|--|
| Pre-audit Team/Observer Meeting | 8:00 a.m., October 24, 1994<br>Las Vegas, Nevada   |
| Pre-audit Conference            | 9:00 a.m., October 24, 1994<br>Las Vegas, Nevada   |
| Audit Activities                | 10:00 a.m. to 4:00 p.m.<br>October 24, 1994<br>Las Vegas, Nevada                                   |
|                                 | 8:00 a.m. to 4:00 p.m.<br>October 25 through 27, 1994<br>Las Vegas, Nevada<br>and Nevada Test Site |
|                                 | 8:00 a.m. to 11:30 a.m.<br>October 28, 1994<br>Las Vegas, Nevada                                   |
| Post-audit Conference           | 2:00 p.m., October 28, 1994<br>Las Vegas, Nevada   |

There will be a daily Audit Team/Observer meeting at 4:00 p.m. and also a daily Audit Team Leader (ATL)/Observer/REECo meeting starting at 8:00 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 available revision of REECo's approved and issued QA Program procedures applicable to selected activities agreed with REECo 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 effectiveness of the following activities in meeting program requirements and management commitments and expectations:

- 1) Collection of Lithium Bromide water samples.
- 2) Analysis of Lithium Bromide water samples.

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

- 1) Proper implementation of the critical process steps;
- 2) Use of trained and qualified personnel working effectively;
- 3) Documentation that substantiates quality of the products; and
- 4) Acceptable results and quality of the final data.

#### 5.0 AUDIT TEAM MEMBERS

Amelia I. Arceo, YMQAD, Las Vegas, Nevada, ATL  
Raul A. Hinojosa, YMQAD, Las Vegas, Nevada, Auditor  
Stephen R. Maslar, YMQAD, Las Vegas, Nevada, Auditor

#### 6.0 AUDIT CHECKLISTS

The following checklist will be used during the audit:

**YMP-95-01-01, Performance Based Checklist**