



Department of Energy  
Yucca Mountain Site Characterization  
Project Office  
P. O. Box 98608  
Las Vegas, NV 89193-8608

WBS 1.2.9.3  
QA

JUN 24 1991

Robert F. Pritchett  
Technical Project Officer  
for Yucca Mountain  
Site Characterization Project  
Reynolds Electrical &  
Engineering Co., Inc.  
P.O. Box 98521  
Las Vegas, NV 89193-8521

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION  
REQUEST (CAR) YM-91-032 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE  
DIVISION (YMQAD) AUDIT 91-02 OF REYNOLDS ELECTRICAL & ENGINEERING CO.,  
INC. (REECO)

The YMQAD staff has verified the corrective action to CAR YM-91-032 and  
determined the results to be satisfactory. As a result, the CAR is  
considered closed.

If you have any questions, please contact either Catherine E. Hampton  
at 794-7973 or Terry W. Noland at 794-7212.

*Catherine Hampton for*  
Donald G. Horton, Director  
Yucca Mountain Quality Assurance Division

YMQAD:CEH-4261

Enclosure:  
CAR YM-91-032

cc w/encl:  
K. R. Hooks, NRC, Washington, DC ←  
S. W. Zimmerman, NWPO, Carson City, NV  
W. J. Glasser, REECo, Las Vegas, NV  
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

cc w/o encl:  
J. W. Gilray, NRC, Las Vegas, NV

YMP-5

9107020076 910624  
PDR WASTE  
WM-11 PDR

*add: K Hooks*

*1025  
WM-1  
NHO*

**OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.**

14CAR NO.: YM-91-032  
DATE: 03/07/91  
SHEET: 1 OF 2  
QA  
WBS No.: 1.2.9.3

**CORRECTIVE ACTION REQUEST**

1 Controlling Document REECo QAPP, 565-DOC-115	2 Related Report No. AUDIT NO. 91-02
---	---

3 Responsible Organization REECo QA	4 Discussed With M. Fox, D. Hackbert
--	---

10 Response Due 30 Days After Issue	11 Responsibility for Corrective Action R. F. Pritchett	12 Stop Work Order Y or N No
--	--	---------------------------------

5 Requirement:  
QAPP, Rev. 8, Sect. 18, Para. 1.1.1 states in part, " REECo shall conduct internal audits (covering their entire QAPP, on an annual basis) and external (direct subcontractor) audits of activities under its direct control."

6 Adverse Condition:

- Only 4 of their 11 scheduled audits were performed by REECo in 1990.
- The QA Department and Criteria 16 and 18 were not scheduled for an audit in 1990 and are not scheduled for an audit on the 1991 Revision 0 Audit Schedule.

7 Recommended Action(s):  
Identify the remedial action(s) to be taken to correct the deficiencies noted in Block 6. Investigate the program process, activities or documentation to determine the extent and depth of similar deficient conditions on the CAR. Identify these deficiencies and provide the

8 Initiator T. W. Noland <i>T.W. Noland</i>	Date: 02/27/91	9 Severity Level - 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: OQA <i>Cher Hampton</i>	Date: 3/11/91
---	-------------------	---	--	------------------

15 Verification of Corrective Action:

- REECo has increased their QA staff from 3 to 6 for YMP activities since the conduct of Audit 91-02. The new staff are starting to be used to conduct YMP audits.
- Five scheduled audits have been conducted by REECo YMP QA since Audit 91-02.
- A Memorandum of Understanding has been established for REECo Quality Systems to perform an annual audit of the REECo YMP QA Department activities. An audit of the REECo YMP QA Department is scheduled for Nov. 1991 per the REECo Rev. 1, 1991 Audit Schedule. The Schedule indicates Criterion to be audited will include 16 and 18 *revised 4/5/91*

16 Corrective Action Completed and Accepted: OAR <i>T.W. Noland</i> Date <i>6/5/91</i>	17 Closure Approved By: OQA <i>Cher Hampton</i> <i>6/6/91</i>
---	--

**OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.**

CAR NO.: YM-91-032  
DATE: 03/07/91  
SHEET: 2 OF 2

**CORRECTIVE ACTION REQUEST  
(continuation sheet)**

7 Recommended Action(s) (continued)

measures required to correct them. Identify the cause of the condition and the planned corrective action to prevent recurrence.

OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

CAR NO. YM-91-032

DATE: 04-12-91

SHEET: 1 OF 2

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-032

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # 1

A. Extent of Deficiency:

There were twelve (12) organizations to audit on the 1990 Audit Schedule. Audits were conducted of the Weld & Physical Standards Laboratory (REEC0-001-90), Control Department (REEC0-003-90), Management Office (REEC0-004-90) and Human Resources (REEC0-005-90). The audits of Operations Equipment (REEC0-002-90); Power, Electronics & Communications and Supply & Property were postponed as discussed in Root Cause #2 below. Four YMP organizations (Drilling, Construction, Information Management and Logistical Support) were not audited late in the year because of staffing problems.

B. Root Cause:

1. Inadequate staffing was the cause of not completing the audits of REEC0 YMP organizations scheduled for the last part 1990.
2. No Quality-Affecting activities were permitted to be accomplished by REEC0 Matrixed Organizations per DOE Nevada Operations Office direction. Since no Quality-Affecting activities were being performed or allowed, there was no requirement to conduct audits of those REEC0 Matrixed organizations. This restriction on the use of REEC0 Matrixed organizations was resolved between the two DOE entities with the signing of a management agreement during December 1990.

C. Remedial Actions:

No remedial actions can be taken to complete those audits which were missed in 1990. Of those audits of organizations (Construction; Drilling; Information Management; Logistical Support; Operations Equipment; Power, Electronics & Communications; and Supply & Property) which were missed in 1990, some have been audited in 1991 (Drilling, Construction & Operations Equipment) or are scheduled for audit in the near future (Information Management-April 91, Power, Electronics & Communications-July 91) or based on the current level of activity (Supply & Property and Logistical Support) will be audited in August 1991.

OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

CAR NO. YM-91-032

DATE: 04-12-91

SHEET: 2 OF 2

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-032

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # 1 - Continued

D. Corrective Action to Prevent Recurrence:

1. YMP Quality Assurance Management will ensure that audits are conducted as scheduled.
2. Details associated with staffing are addressed on CAR YM-91-025.

Response Approved:

Bruce Tindall For R.F.P. 4/12/91  
Responsible Manager Date

OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

CAR NO. YM-91-032

DATE: 04-12-91

SHEET: 1 OF 1

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-032

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # 2

A. Extent of Deficiency:

The YMP QA Department was never audited as a separate line item on the audit schedule.

B. Root Cause:

Management oversight.

C. Remedial Actions: (All Actions To Be Completed By 05/31/91)

1. A Memorandum Of Understanding is being drafted between YMP Quality Assurance and Quality Systems (QS) for QS to audit the YMP QA Department and specific Program responsibilities (e.g., Criterion 16 and 18).
2. Once the Memorandum is effective, a change to the audit schedule will be made to add the audit of YMP QA.

D. Corrective Action to Prevent Recurrence: (Actions To Be Completed By 05/31/91)

See Remedial Actions above.

Response Approved: Bruce Mendella For R.F.P. 4/12/91  
Responsible Manager Date

RESPONSE ACCEPTED: T.W. Nelson 4/19/91  
QAR Date

RESPONSE ACCEPTED: Carmen Henderson 4-19-91  
QQA Date