

TO: Ken Hooks



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 27 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-91-025 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE
DIVISION (YMQAD) AUDIT 91-02 OF REYNOLDS ELECTRICAL & ENGINEERING CO., INC.

The YMQAD staff has verified the corrective action to CAR YM-91-025 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 John S. Martin at 794-7881.

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

YMQAD:CEH-4290

Enclosure:
CAR YM-91-025

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

CC

9107110047 910627
PDR WASTE
WM-11 PDR

*102.7
Wm-11
NH03*

ORIGINAL
THIS IS A RED STAMP

ERK 2/12/91

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

14 CAR NO.: YMP-91-025
DATE: 3/7/91
SHEET: 1 OF 2
QA
WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document
568-DOC-115 QAPP

2 Related Report No.
Audit 91-02

3 Responsible Organization
REECO Quality Assurance

4 Discussed With
M. Fox

10 Response Due
30 days after issue

11 Responsibility for Corrective Action
R.F. Pritchett

12 Stop Work Order Y or N
N

5 Requirement:
QAPP, Revision 8, Section 1, Paragraph 2.1 states in part, "Full-time dedicated QA positions have been established by REECO. Personnel in these positions shall have the responsibility and authority to verify the adequacy and effectiveness of QA plans, requirements, and QA program implementation by REECO and its subordinate organizations."

QP 1.0, Revision 7, Paragraph 6.1.3, "The REECO Organizational Chart, Exhibit 1, denotes the lines of authority, communication, and responsibility assigned to key quality-related Project functions for the YMP."

6 Adverse Condition:
REECO has failed to assign adequate amount of full-time dedicated QA personnel to ensure that the required support for activities that affect quality is achieved accordingly.

Organizational charts issued in January 1, 1990 and updated during the audit indicated that a minimum of 4 full-time dedicated QA positions are required for the Quality Assurance Department. This was also stated by the QA Manager. However, at the time of the audit, only one full-time dedicated QA individual was in place.

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 of the CAR. (Con't)

8 Initiator
Mario R. Diaz 2/25/91
Mario Diaz

9 Severity Level -
1 2 3

13 Approved By:
OQA *Catherine Humpfer* 3-11-91

15 Verification of Corrective Action:
*verified REECO has met staffing levels as committed.
See attached REECO letter #580-01-432. In addition, see
attached surveillance report YMP-SR-91-019.
6-4-91*

16 Corrective Action Completed and Accepted:
OAR *[Signature]* Date 6-4-91

17 Closure Approved By:
OQA *Catherine Humpfer* 6/7/91

ENCLOSURE

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

RWR 5/12/91
CAR NO.: YF-91-025
DATE: 3/7/91
SHEET: 2 OF 2

CORRECTIVE ACTION REQUEST
(continuation sheet)

7 Recommended Action(s) (continued)

Identify these deficiencies and provide the 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-91-025
DATE: 04-12-91
SHEET: 1 OF 2

CORRECTIVE ACTION REQUEST
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-025

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # ALL

A. Extent of Deficiency:

REECo has reviewed the potential adverse condition described in the Corrective Action Request and agrees that the Quality Assurance (QA) organization staffing level at the time of the audit was insufficient to provide the minimum required quality assurance support. Further, an assessment of current quality commitments and activities confirms the need for at least four full-time dedicated QA positions. This finding is limited to the Quality Assurance department.

B. Root Cause:

It appears that management failed to closely monitor the affect of a reduced staffing level. In addition, it appears that management failed to initiate timely follow-up to requested actions to locate and hire dedicated QA personnel.

C. Remedial Actions:

Since completion of the audit, the REECo YMP Quality Assurance Manager resigned his position from REECo. However, REECo was successful in immediately identifying a qualified replacement from within the Company who has taken the following remedial actions:

1. An immediate search for suitable candidates for dedicated QA positions was initiated.
2. One candidate from REECo's Quality Systems Division, who is currently a lead auditor, was interviewed and an offer was extended. The individual has accepted the position and will report April 29, 1991.
3. On April 8, 1991, two potential candidates were interviewed for full-time dedicated QA positions. Both candidates were considered highly qualified and an offer is being extended to both.

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

CAR NO. YM-91-025
DATE: 04-12-91
SHEET: 2 OF 2

CORRECTIVE ACTION REQUEST
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-025 (Continued)

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # ALL

C. Remedial Actions: (Continued)

Resolution to the lack of staff concern is dependent upon the acceptance of job offers by qualified candidates. Therefore, it is not appropriate at this time to identify a firm date by when the concern will be resolved. REECo will, however, provide a status update to this finding by June 1, 1991, to indicate what further actions, if any, will be required to obtain sufficient dedicated personnel to meet the quality assurance objectives.

D. Corrective Action to Prevent Recurrence: (Ongoing)

Periodic reviews of the QA staffing levels will be conducted by the Quality Assurance Manager to determine if the current level of quality related activities required to be performed by the QA department can be accomplished by the existing staff level. This review shall be conducted at least annually as part of the annual budget planning process and at anytime existing staff leave the QA department or whenever there is a significant unplanned change in quality related activity. Whenever the Quality Manager determines that the required level of support for quality affecting activities can not be maintained with existing staff, then immediate actions shall be initiated to hire or assign additional dedicated personnel within 60 days or sooner, if required.

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

RESPONSE ACCEPTED: Waino Sar 4/19/91
QAR Date

RESPONSE ACCEPTED: Catherine A. [Signature] 4-22-91
QQA Date