

Department of Energy

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

TO: Ken Hooks

WBS 1.2.9.3 QA

MAY 09 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

EVALUATION OF RESPONSES TO CORRECTIVE ACTION REQUESTS (CARs) YM-91-025, YM-91-027, AND YM-91-034 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YM 91-02 OF REYNOLDS ELECTRICAL & ENGINEERING CO., INC. (REECO)

The YMQAD staff has evaluated the responses to CARs YM-91-025, YM-91-027, and YM-91-34. The responses have been determined to be satisfactory. Verification of completion of the corrective actions will be performed after the effective dates provided. Any extension to these dates must be requested in writing, with appropriate justification, prior to the date. Please send a copy of extension requests to Nita J. Brogan, Science Applications International Corporation, Las Vegas, Nevada.

If you have any questions, please contact Catherine E. Hampton at 794-7973 or or Mario R. Diaz at 794-7974.

Donald G. Horton, Director

Yucca Mountain Quality Assurance Division

YMQAD: CEH-3530

Enclosures: CARs YM-91-025, YM-91-027, and YM-91-034

cc w/encls:

W. J. Glasser, REECo, Las Vegas, NV

K. R. Hooks, NRC, Washington, DC

S. W. Zimmerman, NWPO, Carson City, NV

N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

cc w/o encls:

J. W. Gilray, NRC, Las Vegas, NV

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

14CAR NO.	mg-91-025
DATE:	3/7/91
SHEET:	
	QA
W/DC No	. 1,2,9,3

		MENT OF ENERG NGTON, D.C.	QA WBS No.: 1.2.9.3	
	CORRECTIVE	ACTION REQUE	ST	
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 Co R.F. Pritchett	orrective Action	12 Stop Work Order Y or	N
5 Requirement: QAPP, Revision 8, Section positions have been estal responsibility and author requirements, and QA produced to the produced to	blished by REECo. Pority to verify the acgram implementation by	ersonnel in these pos dequacy and effective by REECo and its subc	sitions shall have the eness of QA plans,	
the lines of authority, Project functions for the	communication, and re	esponsibility assigne	ed to key quality-related	
6 Adverse Condition:				
REECo has failed to assic that the required suppor	gn adequate amount of t for activities that	f full-time dedicated t affect quality is a	d QA personnel to ensure achieved accordingly.	
Organizational charts is that a minimum of 4 full Assurance Department. T the audit, only one full	-time dedicated QA po his was also stated !	ositions are required by the QA Manager. I	d for the Quality However, at the time of	
7 Recommended Action(s): Identify the remedial actinvestigate the program of similar deficient con-	process, activities	or documentation to d	iencies noted in Block 6. determine the extent and depth	
8 Initiator Dat Mario R. Diaz 2/25/91	e: Severity Level	OQA	Date of S-11-	9/
15 Verification of Corrective Action	on:			
16 Corrective Action Completed	and Accepted: Date	17 Closure Appro	oved By:	
~ " '		~~~		

CAR NO.:	MAK 3/12/11 YMF-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.

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.

CAR NO.	YM-91-025	<u> </u>
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 in 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. <u>Corrective Action to Prevent Recurrence</u>: (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 Tanalla for RF.P. Responsible Manager	4/12/91
	Responsible Manager	Date
RESPONSE ACCEPTED:	Mario Das	4/19/91
	QAR	Date
RESPONSE ACCEPTED:	Cather of make	4-22-91
	ÖQA	Date



14CAR NO.:	Y	1-9	1-02	7
DATE:			7/91	
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CORRECTIVE ACTION REQUEST				
1 Controlling Document			2 Related Report No.	
568-DOC-115 QAPP			AUDIT NO. 91-02	
3 Responsible Organization	····	4 Discussed With	<u> </u>	
REECo, Logistical Support	Dept.	S. Straub, C. Bark	ter	
10 Response Due	11 Responsibility for C	оггесtive Action	12 Stop Work Order Y or N	
30 Days After Issue	R. F. Pritchett		No	
5 Requirement:				
content of the indoctrin	ation, date or dates	of indoctrination, a	which include the objective and and other applicable information."	
QAPP, Rev. 8, Para. 5.1. affecting quality, they implementation, and appl:	shall be indoctrinat	ed as to the purpose,	ersonnel to perform activities scope, method of	
o QAPPs o Implementing Procedure responsibilities) o Regulations o Project level document		ions (applicable to t	the individual's	
6 Adverse Condition:	-5			
Documented evidence of in	t. In some other ca	ses, the indoctrinati	performed quality affecting on has been performed after	
7 Recommended Action(s):	sister to be be able			
Investigate the program pof similar deficient cond	process, activities	or documentation to d	dencies noted in Block 6. determine the extent and depth ciencies and provide the	
8 Initiator Dat		- 13 Approved By	Date:	
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15 Verification of Corrective Action	ก:			
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16 Corrective Action Completed	and Accepted:	17 Closure Approv	ved By:	
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CAR NO.: YM-91-027
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.

CAR NO	MY.	-91- (<u> 27</u>	
DATE:	04	-12-9)1	
SHEET:	1	OF	1_	

CORRECTIVE ACTION REQUEST (continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-027

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # All

This finding is similar to specific indoctrination and training deficiencies recently identified on DOE Surveillance YMP-SR-91-007 for which REECo provided corrective action responses on March 22, 1991. At the time of the audit, REECo had not completed the investigation and corrective action planning on the surveillance findings for the audit team to review. Therefore, the audit identified similar problems which were deemed global in nature which required apparent additional action. As part of the investigation for the surveillance findings, REECo determined that the type of problems identified, some of which were identical to the adverse condition identified as part of this audit, were indeed global in nature and required corrective actions directed at all of our qualification records. The specific corrective actions documented on the March 22, 1991 response provides the corrective and preventive steps which also provides a global approach to the finding identified during the audit.

Based on the above discussion, REECo considers that the adverse condition identified by this audit finding will be adequately and effectively corrected in accordance with the corrective actions identified for YMP-SR-91-007.

RESPONSE ACCEPTED:

RESPONSE ACCEPTED:

RESPONSE ACCEPTED:

RESPONSE ACCEPTED:

OQA

RESPONSE ACCEPTED:

OQA

OQA

Date

OFFICE OF CIVILIAN

14CAR NO.:	YM-91-034
DATE:	3/7/91
SHEET: _	1 OF 2
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WBS No.:	1.2.9.3

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U.S. DEPARTMENT OF ENERGY				
	WASH	INGTON, D.C.		WBS No.: 1.2.9.3
	CORRECTIVE	E ACTION REQUE	ST	
1 Controlling Document			2 Relate	ed Report No.
QP 2.4			Audit	91-02
3 Responsible Organization		4 Discussed With		
REECO		R. Pritchett		
10 Response Due 30 days after issue	11 Responsibility for C R.F. Pritchett	orrective Action	1	Stop Work Order Y or N
5 Requirement:			L	
QP 2.4, Revision 1, Para a minimum, initiate an e Project Division."	graphs 6.6.1 and 6.6 valuation of the ove	3.3 state, "The TPO si rall training program	hall peri m for the	odically, annually as REECo Yucca Mountain
The TPO shall document t	he evaluation and in	clude the following:	informati	on:
o Names of evaluators o Dates of evaluation o Scope of evaluation o Methodology o Results o Recommendations for o	changes, (if any) (Co	on't)		,
6 Adverse Condition:				
Documented evidence of t not exist.	he overall training	program evaluation for	or the ye	ars 1989 and 1990 does
				-
·				
				·
7 Recommended Action(s):			****	
Identify the remedial ac	tion(s) to be taken	to correct the defic	iencies n	oted in Block 6.
Investigate the program of similar deficient con	process, activities	or documentation to o	determine	the extent and depth
8 Initiator Da	te: 9 Severity Level	- 13 Approved By	/:	Date:
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15 Verification of Corrective Action	on:			
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CAR NO.:	YM-91-034		
DATE:	3/7/91		
SHEET: _	2 OF 2		

CORRECTIVE ACTION REQUEST (continuation sheet)

- 5 Requirements (continued)
 - o Signature of TPO
- 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.

CAR NO. YM-91-034

DATE: 04-12-91

SHEET: 1 OF 2

CORRECTIVE ACTION REQUEST (continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-034

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # ALL

A. Extent of Deficiency:

REECo has evaluated the identified adverse condition and has concluded that a separate, specific evaluation of the overall training program has never been implemented. However, a review of REECo's approved Quality Assurance Program Plan (568-DOC-115 revision 8) and DOE's Quality Assurance Requirements Document (DOE/RW-0214 revision 4) did not identify a requirement to conduct the assessment of training as a separate evaluation. The review did identify a requirement in DOE's Quality Assurance Requirements Document that the annual Management Assessment is to include Indoctrination and Training as one of the evaluation elements. This requirement is included in REECo's procedure for Management Assessment, QP 2.3. Although REECo management considered that the intent of the requirement had been met through REECo's Management Assessments, REECo does recognize that the requirement of QP 2.4 paragraph 6.6 for Training Program Evaluation had not been implemented.

B. Root Cause:

Management failed to recognize that when a procedure requirement is no longer applicable or does not describe the way an activity is currently being performed, then a change to the requirement must be initiated.

C. Remedial Actions: (All Actions To Be Completed By 06/15/91)

Since no specific requirement exists to perform separate, specific training evaluations, and since Indoctrination and Training is an element of the annual Management Assessment, a Quality Procedure Change Notice will be issued to delete paragraph 6.6 of QP 2.4 revision 1.

CAR NO.	YM	1-91	-03	4
DATE:	04	-12	-91	
SHEET:	2	_OF	2	

CORRECTIVE ACTION REQUEST (continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-034 (Continued)

- 1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # ALL
 - D. <u>Corrective Action to Prevent Recurrence:</u> (Actions To Be Completed By 06/15/91)

In order to ensure that REECo YMP Managers clearly understand the need to maintain procedures current with practice, the Quality Manager will conduct a review training with the TPO and YMP department managers. This review will be documented to the managers' training file.

Response Approved:

Responsible Manager

Response Accepted:

Responsible Manager

Date

Response Accepted:

Response Accepted: