

Department of Energy

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

WBS 1.2.11 QA: N/A

OCT 2 8 1993

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-93-060 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-93-12 OF REYNOLDS ELECTRICAL & ENGINEERING CO., INC. (SCP: N/A)

The YMOAD staff has verified the corrective action to CAR YM-93-060 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Raul A. Hinojosa at 794-7991.

Richard E. Spence, Director

Yucca Mountain Quality Assurance Division

YMQAD: RBC-445

Enclosure: CAR YM-93-060

cc w/encl:

K. R. Hooks, NRC, Washington, DC

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

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

cc w/o encl:

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

N. J. Brogan, YMQAD/QATSS, Las Vegas, NV

CCRU (2)

9311040365 931028 WASTE PDR

ADD: K. HOOKS U. Enel.



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

8	CAR NO.:	YM-93-060 07/02/93	
	DATE:		
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CORRECTIVE	ACTION REQUES	T			
1 Controlling Document		2 Related Report No.			
REECo QAPP, 568-DCO-115, Revision 8		YMP-93-12			
3 Responsible Organization	4 Discussed With	-			
REECo Construction	T. Leonard/J. Hedla	md			
5 Requirement: REECo QAPP, Section XVII, "Quality Assurance Records," Paragraph 2.1.1 states in part, "Documents that are designated to become records shall be legible, identifiable, accurate, complete"					
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	•				
		•			
6 Adverse Condition: Contrary to the above, review of Shotcrete E following for several records:	Placement Logs indicate	ed the			
 a. Sample identification numbers are not ac b. The transfer of batch numbers is not acc c. Drawing numbers are not always listed. 	ccurate. curate.		·		
d. Corrections are not being lined out and	initialed and dated.				
			·		
	stop work condition exist?	1	Response Due Date:		
	No_x; if Yes - Attach cop Dircle One: A B C D		20 Working Days From Issuance		
12 Required Actions: ☒ Remedial ☒ Extent of Defi	iciency 🗓 Preclude Re	currence X F	Root Cause Determination		
13 Recommended Actions:		•			
1) Provide reinstruction to record management	ent and procedural req	urements.	}		
			1		
	•				
7 Initiator Gerard Respect Willeman Date 7-1-	93 QADD Approx	INOHO) to	R Date 07-07-93		
15 Response Accepted	16 Response Arca	oted	- chalin		
OAR Perand Henney Date 8-10 17 Amended Response Accepted	18 Amended Response	rise Accepted	Date 7// //-/ >		
QAR Date	QADD		Date		
19 Corrective Actions Verified 15/37/	20 Closure Approve	sq by:	:		
OAR MUL I HIM MILL Date 19	3 QADD /1	- Hill	Date/CAN /41		

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CORRECTIVE ACTION REQUEST (Continuation Page)

CORRECTIVE ACTION RESPONSE for CAR # YM-93-060

A. Remedial Action:

Shotcrete Placement Logs completed prior to July 28, 1993, will be checked for completeness and corrected as necessary.

Responsible Individual: Jon P. Hedlund
Estimated completion date: September 3, 1993

B. Investigative Action:

Extent of Deficiency: All shotcrete Placement Logs completed prior to July 28, 1993.

Responsible Individual: Jon P. Hedlund Estimated completion date: Completed

C. Root Cause Determination:

Lack of technical coverage on the back shifts (swing and graveyard).

D. Corrective Action to Preclude Recurrence:

The Shotcrete Placement Log has been simplified in TC-581-SP-0007, Revision 1, effective on July 28, 1993. A technical person has been assigned on each shift to ensure that the logs are properly completed.

Responsible Individual: T. M. Leonard Estimated completion date: Completed

Response Approved: 127 Printed Date: 8/4/93

Ot at 8/4/93- 580-01-587

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CORRECTIVE ACTION REQUEST (Continuation Page)

VERIFICATION OF CORRECTIVE ACTION REQUEST (CAR) YM-93-060

Verification of corrective action was completed on October 15, 1993 by Raul A. Hinojosa. The following objective evidence was verified.

- A. REMEDIAL ACTION Verified that all Shotcrete Placement Logs completed prior to July 28, 1993, had been checked and corrected.
- B. INVESTIGATIVE ACTION See Item A.
- C. ROOT CAUSE DETERMINATION See Item D.
- D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE Verified that technical personnel (engineers) had been assigned to the swing and graveyard shifts by review of time sheets for the period since the CAR Response. Engineers assigned were Brian J. Memmott, Robert Kehrnran and Clint Mortensen.

Mul Affino Joha Date 10/20/93