

Department of Energy

Office of Civilian Radioactive Waste Management Yucca Mountain Site Characterization Office P.O. Box 98608 Las Vegas, NV 89193-8608

QA: L

SEP 1 9 1994

L. Dale Foust Technical Project Officer for Yucca Mountain Site Characterization Project TRW Environmental Safety Systems, Inc. Bank of America Center, Suite P-110 101 Convention Center Drive Las Vegas, NV 89109

EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR) YM-94-053 RESULTING FROM U.S. DEPARTMENT OF ENERGY/HEADQUARTERS QUALITY ASSURANCE DIVISION'S (HQAD) AUDIT HQ-94-02 OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR (SCPB: N/A)

The Yucca Mountain Quality Assurance Division (YMQAD) staff has evaluated the response to CAR YM-94-053. The response is unsatisfactory because it does not adequately address the Extent of Deficiency or Root Cause. Please submit an amended response that addresses the following issues:

- 1. The current Extent of Deficiency response does not identify the actual extent of the problem; it only details that a "review" will occur. There is no explanation as to how this review will be documented and if the CAR will be amended.
- 2. The root cause explanation states that Document Review Records were handled by several individuals during the design process. It is not clear that the procedure used for verification allows for such actions. Quality Assurance Procedure (QAP) 3.4, Revision 4, also requires that the Design Review chairperson assemble the records package. Clearly responsibility had been delegated to CRWMS M&O supervisory personnel for the subject packages. Specifically, the Design Verification Record for Design Package 1B clearly documents that supervision was responsible for the establishment and approval of review instructions/criteria (procedurally the same person responsible for records package assembly). The identified root cause does not deal with the actual condition.

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- 3. The Design Verification Record and its implementation is similar to the implementation of the Document Review Record (DRR) via QAP 3.1. The CRWMS M&O needs to identify what actions will take place specifically to preclude recurrence of the same problems from occurring to DRRs. The CRWMS M&O must address the overall issue of records safekeeping. The revision of QAP 3.2 alone does not provide the necessary recurrence control.
- 4. A date for full compliance must be provided. The current response for Item D does not provide the date.

An amended response is required to be submitted to this office within ten working days of the date of this letter. Send the original of your response to Deborah Sult, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109. If an extension to the due date is necessary, it must be requested in writing, with appropriate justification, prior to that date.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Robert L. Howard at 794-7820.

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Olnci Richard E. Spence, Acting Director

Yucca Mountain Quality Assurance Division

YMQAD:RBC-5060

Enclosure: CAR YM-94-053

cc w/encl: T. A. Wood, (RW-14) FORS R. L. Johnson, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV R. L. Robertson, M&O/TRW, Vienna, VA Richard Jiu, M&O/Duke, Las Vegas, NV R. P. Ruth, M&O/TRW, Las Vegas, NV D. G. Horton, OQA (RW-3) YMSCO, NV R. M. Nelson, Jr., YMSCO, NV cc w/o encl:

D. G. Sult, YMQAD/QATSS, Las Vegas, NV

W. L. Belke, NRC, Las Vegas, NV

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Richard E. Spence, Acting Director Yucca Mountain Quality Assurance Division

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cc w/o encl: W. L. Belke, NRC, Las Vegas, NV D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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RADIOACTIVE U.S. DEPAR	E OF CIVILIAN WASTE MANAGEME TMENT OF ENERGY HINGTON, D.C.				
CORRECTIV	E ACTION REQUEST	Т			
¹ Controlling Document M&O QAP-3-2. Design Verification, Rev. 4, Rev. P01		² Related Report No. HQ-94-02			
³ Responsible Organization CRWMS M&O	Discussed With M. DeLeone	e, F. Arth, J. Heaney, J. Willis			
* Requirement:					
 Paragraph 6. (Records) requires that design verification record packages consist of the following, as appropriate: design verification record, document review records, design review notice, design review team selection record, interoffice correspondence approving use of supervisor as verifier, alternate calculations and analyses, qualification test records, peer report and supporting documentation, verification review memorandum and design verification checklist. Paragraph 5.4.1 requires that design verification records packages shall include the following documentation: the 					
Design Verification Record, any Technical Document Review Notices and associated Document Review Record Forms, an index identifying all documents in the design verification package, the design package and any documentation supporting verifier qualifications.					
⁶ Adverse Condition:					
 A. The following design verification documentation refor design package 1B: 1. Design Verification Record 2. Design Review Notice 3. Design Review Team Selection Record 4. Verification Review Memorandum 5. Design Verification Checklist B. The list of required documentation conflicts with the second sec	ne required records section	n (6. Records) where the index and verifier			
adverse to quality exist? Yes_x_No Yes	stop work condition exist No_x; If Yes - Attach c Yes, Circle One: A	1? ¹³ Response Due Date: copy of SWO 20 working days			
"Required Actions: 🖸 Remedial 🖾 Extent of De					
 ¹² Recommended Actions: 1. Generate the required documentation. 2. Assure that other design packages that have been generated have received the prope: reviews 3. Evaluate the quality of the records keeping processing relevant to design packages and the associated reviews. 4. Train all responsible personnel in the appropriate areas. 					
' Initiator C.C. Lubannu ffre Richard G. Peck Date 6/30/9		12/12 Date 7/12/14			
¹⁵ Response Accepted	¹⁶ Responsé Acce				
OAR Date 17 Amended Response Accepted	QADD ^{1*} Amended Resp	Date			
QAR Date	QADD	Date			
1ºCorrective Actions Verified	²⁰ Closure Approve				

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REV. 02/14/94

	OFFICE OF RADIOACTIVE WAST U.S. DEPARTMEN WASHINGT	TE MANAGEMENT	* CAR NO. <u>YM-94-053</u> PAGE: <u>2</u> OF <u>2</u> QA
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Project Change Request found by the audit team	ued) sented the revision to Design Pa CR 94/181) for review prior to s as is detailed in items A and B ab clencies, correctly collate the pack	ubmittal being made to the pove. The package was re	ERC. Similar discrepancies w trieved by Engineering Supervis
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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

* CAR NO. YM-94-053				
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CORRECTIVE ACTION REQUEST (Continuation Page)

* Adverse Condition: (Continued)

c. The audit team was presented the revision to Design Package 1A (Reference Yucca Mountain Site Characterization Project Change Request CR 94/181) for review prior to submittal being made to the LRC. Similar discrepancies were found by the audit team as is detailed in items A and B above. The package was retrieved by Engineering Supervision in order to correct all deficiencies, correctly collate the package and research the root cause of the problems found by the audit team.

	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C. CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)	8. CAR NO. YM-94-053 PAGE 1 OF 1 QA
A. REMEDIAL A	CTION:	
- Search existing f	files for possible misfiling of missing documents	
- Generate the req	uired missing documentation	
Responsible Indi Completion Date	vidual: Manny DeLeon : 10/15/94	
B. EXTENT OF D	EFICIENCY:	
- Review the other and complete	ESF Surface Design Verification Packages to ensure proper documentation is a	wailable
Responsible Indi Completion Date	vidual: Manny DeLeon 2. 10/15/94	
C. ROOT CAUSE	DETERMINATION:	
•	cumentation was not submitted to the Local Records Center (LRC) in a timely m erification) did not assign specific responsibility for assembling the records pack	- 1
•	tween Paragraph 5.4.1 and Paragraph 6 of QAP-3-2, Rev.4, P01, do not preven upporting verifier qualifications, but may have attributed to them possibly not b	
D. CORRECTIVE	ACTION TO PRECLUDE RECURRENCE:	
assigned to ensure the Design Verification documentation in actively development stage.	In verification) has been revised. Paragraph 3.6 defines the Design Verification that the design verification is completed in accordance with this procedure". The leader is given responsibility to initiate/compile/develop/complete various eleme cordance with procedural requirements, and is the focal point for coordinating to In addition, Section 6 "RECORDS" also assigns the Design Verification Leader and submitting it to the Local Records Centers.	roughout the procedure the ents of the required forms and these documents in the
- Discrepancies be	tween Paragraph 5.4.1 and Section 6have been resolved in the current revision	of QAP-3-2.
- We will correct t Surface Design Pacl	the discrepancies identified by reviewing the extent of deficiency and determinin cages	ng any impacts on other ESF

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8/31/94 LV.MG.PGJ.8/94-236 Exhibit QAP-16.1.2

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