

#### Department of Energy

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

MAR 1 2 1996

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

ISSUANCE OF DEFICIENCY REPORT (DR) YMQAD-96-D044, YMQAD-96-D045 AND PERFORMANCE REPORT (PR) YMQAD-96-P023 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-96-07 OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR AT SANDIA NATIONAL LABORATORIES (SCPB: N/A)

Enclosed is DR YMQAD-96-D044, YMQAD-96-D045 and PR YMQAD-96-P023 generated as a result of YMQAD Audit YM-ARP-96-07.

Please identify the corrective actions to be taken and implemented to correct the deficiency. PR/DR Continuation Pages have been provided. Send the originals of your responses to Deborah Sult, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109. Response to the DRs and PR are due 20 working days from the date of this letter. Any extension to due dates must be requested in writing, with appropriate justification, prior to the due dates.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Daniel A. Klimas at 794-7696.

YMQAD:RBC-1320

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosures: 1. DRs YMQAD-96-D044 and

- YMQAD-96-D045
- 2. PR YMQAD-96-P023
- 3. PR/DR Continuation Pages

# 180191

9603190008 960312 PDR WASTE WM-11 PDR

YMP-5

#### L. Dale Foust

cc w/encls: T. A. Wood, HQ (RW-14) FORS J. G. Spraul, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV R. R. Richards, SNL, Albuquerque, NM, M/S 1333 R. L. Strickler, M&O, Vienna, VA R. P. Ruth, M&O, Las Vegas, NV cc w/o encls:

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W. L. Belke, NRC, Las Vegas, NVS. D. Harris, YMQAD/QATSS, Las Vegas, NVD. A. Klimas, YMQAD/QATSS, Las Vegas, NVD. G. Sult, YMQAD/QATSS, Las Vegas, NV

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1	PERFORMANCE/	DEFICIENCY REPO	DRT		
1 Controlling Document: Quality Assurance Requirements and	Description, revision 4	Į	2 Related Re YM-ARP-		
3 Responsible Organization: Sandia National Laborat		4 Discussed With:	Michaele Brad	· · · · · · · · · · · · · · · · · · ·	
5 Requirement/Measurement Criteria:		· · · · · · · · · · · · · · · · · · ·			
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### OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

8 DR NO**YMQAD-96-D044** PAGE 2 OF 2 QA: L

#### DEFICIENCY REPORT

17 Recommended Actions:

Add quantitative or qualitative acceptance criteria to the Work Agreement to reflect the QARD requirements and the process for Model Validation.

18 Investigative Actions:

19 Root Cause Determination:

20 Action to Preclude Recurrence:

21 Response by:		22 Corrective Action Completion Due Date:		
	Date			
23 Response Accepted		24 Response Accepted	•	
QAR	Date	AOQAM	Date	
25 Amended Response A	Accepted	26 Amended Response A	Accepted	•
QAR	Date	AOQAM	Date	
27 Corrective Actions Ve	erified	28 Closure Approved by	•	
QAR	Date	ADDAM	Date	

Exhibit AP-16.10.2

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C. <sup>a</sup> Performance Report Wo.TMQAD-96-0043 Performance Report Wo.TMQAD-96-0043 Performance Report Wo.TMQAD-96-0043 Performance Report Workapper Colspan="2">A Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Controlling Document: QARD, Rev. 4          2 Fealated Report No. TM-ARP-96-07          3 Responsible Organization: CRWMS MAGE, Rev. 4, Panagraph 2.2.4, "Planning Work" states: "Planning shall be performed to ensure work is accomplished under satiably controlled conditions," Planning elements shall include as appropriate: A. Definition of work scope, objectives, and a listing of the primary tasks involved.         B. Identification of scientific approach or technical methods used to collect, analyze, or study results of applicable work. (see page 3)          6 Description of Condition: Contrary to the above stated requirements, the Study Plan for Study S.3.14.2.3, "Coological Framework and Integrated 3-D Site Model," has not been approved. Numerical model warehousing, described in the draft study plan, is presently being implemented.         7 Inflation Date         20 Working Days From Issuance 20 Working Days From Issuance 12 Remedial Action Response By: Date          S A Review Date          Date          Date          Date          Date          Dat			<u> </u>	1	CRIGINAL THIS IS A RED STAMP
U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.       No. <sup>TMQAD-96-D035</sup> PAGE 1 or 3 OA: L         PERFORMANCE/DEFICIENCY REPORT         1 Controlling Document: QARD, Rev. 4       2 Related Report No. 7 MARP-96-07         3 Responsible Organization: CRWMS M&O       4 Discussed With: Richard Quittmeyer         5 Requirement/Measurement Criteria: QARD, Rev. 4, Paragraph 2.2.4, "Planning Work" states: "Planning shall be performed to ensure work is accomplished under suitably controlled conditions," Planning Work" states: "Planning shall be performed to ensure work is accomplished under suitably controlled conditions," Planning elements shall include as appropriate:         A. Definition of work scope, objectives, and a listing of the primary tasks involved.         B. Identification of scientific approach or technical methods used to collect, analyze, or study results of applicable work. (see page 3)         6 Description of Condition: Contrary to the above stated requirements, the Study Plan for Study 8.3.1.4.2.3, " Geological Framework and Integrated 3-D Site Model," has not been approved. Numerical model warehousing, described in the draft study plan, is presently being implemented.         7 Inflaton, Damed Wklings       Date       37/MC OAR       SOA Review OAR (PRI/AOOAM (DRI/MOR/DIM)). " Date 3/12/6.         1 DA Issuance Approval. 20 Working Days From Issuance       14 Remedial Action Due Date Date       Date         13 Remedial Action Response By:       14 Remedial Action Due Date Date       Date         13 Remedial Action Response Acceptance OAR       16 FR Verificat	B				Deficiency Report
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U.S. DEPARTMENT OF ENERGY				
WASHINGTON, D.C.				

8 DR NO.YMQAD-96-D045 PAGE 2 OF 3 **QA: L** 

### DEFICIENCY REPORT

17 Recommended Actions:

1) Obtain approval of the Study Plan.

2) Investigate to determine impact on quality of deliverable.

18 Investigative Actions:

19 Root Cause Determination:

20 Action to Preclude Recurrence:

21 Response by:		22 Corrective Action Completion Due Date:		
	Date			•
23 Response Accepted		24 Response Accepted		
QAR	Date	AOQAM	Date	
25 Amended Response Acc	epted	26 Amended Response A	Accepted .	
QAR	Date	AOQAM	Date	
27 Corrective Actions Verif	ied	28 Closure Approved by		
QAR	Date	AOQAM	Date	

Exhibit AP-16.10.2

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

8 Performance Report

NO. YMQAD-96-D045 PAGE 3 OF 3 OA: L

#### PR/DR CONTINUATION PAGE

Block 5 - Requirements/Measurement Criteria: (continued)

C. Identification of applicable standards and criteria.

D. Identification and selective application, or development, of appropriate implementing documents.

E. Identification of field and laboratory testing equipment, or other equipment.

- F. Identification of, or provisions for the identification of, required records and the recording of objective evidence of the results of the work performed.
- G. Identification of quality assurance program verifications to overview the work performed or the product produced.

H. Identification of prerequisites, special controls, environmental conditions, processes, or skills.

I. Identification of computer software.

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	PERFORMANCE/	DEFICIENCY REPO	RT .	· ·
1 Controlling Document: AP 16.1Q, Rev. 0			2 Related Re YM-ARP-	
3 Responsible Organization: Sandia National Laboratories		Discussed With: Bob Richards	· · ·	
5 Requirement/Measurement Criteria: AP 16.1Q, Rev. 0, Paragraph 5.2.1 the QAR to obtain concurrence with Paragraph 5.3 states, in part : "The	the remedial action."	-		
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7 Initiator 1/		19 QA Review	0.1.1	
Daniel A. Klimas 10 Response Due Date 20 Working Days From Issuance	Date 3/7/9	DAR MUL		M(1) Date 3/7/9/
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12 Remedial Actions:	<u> </u>			Date 9 1/96
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OFFICE OF CIVILIAN
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U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

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# PR/DR CONTINUATION PAGE



Rev. 07/03/95

Enclosure 3

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

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## PR/DR CONTINUATION PAGE

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Exhibit AP-16.10.3

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

8	<ul> <li>Performance Report</li> <li>Deficiency Report</li> </ul>			
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## **PR/DR CONTINUATION PAGE**

Exhibit AP-16.10.3

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