

Department of Energy

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

SEP 0 6 1995

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 REPORTS (DR) YMQAD-95-D-010 THROUGH YMQAD-95-D-013 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-95-19 (SCPB: N/A)

Enclosed are DRs YMQAD-95-D-010 through YMQAD-95-D-013, generated as a result of YMQAD Audit YM-ARP-95-19.

Please identify the corrective actions to be taken and implemented to correct the deficiencies. Performance Report/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. Responses to the DRs are due 20 working days after issuance. Extensions 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 (702) 794-7945 or Richard L. Weeks at (702) 794-7853.

(702) 794-7033.

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

YMQAD:RBC-4480

Enclosures:

1. DRs YMQAD-95-D-010 through YMQAD-95-D-013

2. PR/DR Continuation Pages

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T. A. Wood, HQ (RW-14) FORS

S. W. Zimmerman, NWPO, Carson City, NV R. L. Robertson, M&O, Vienna, VA Richard Jiu, M&O, Las Vegas, NV R. P. Ruth, M&O, Las Vegas, NV

cc w/o encl:

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

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

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8	Performance Report Deficiency Report			
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		DECIDION DEDO		UA: L
	FORMANCE/	DEFICIENCY REPO		
1 Controlling Document: QARD, Revision 4			2 Related Re YM-ARP-95-	•
3 Responsible Organization: M&O/SNL		Discussed With: arry Costin		
5 Requirement/Measurement Criteria: Section 2.2.2, B., 3. states, "The system shall internal interfaces within the organization. A shares an activity or requirement with, another Section 5.2 states, "Work shall be performed."	An interface exists er organization." according to conti	s when one organization rolled implementing doct	prescribes an a	activity or requirement to, or
Section 2.2.4, D. states, "Planning shall be per Planning elements shall include, as appropriated." D. Identification and selective applications.	ite:		•	•
6 Description of Condition: Contrary to the above requirements, the procedure Package 2C", Revision 1, which was utilized evaluate compliance to an implementing procedurate compliance to an implementing procedure issued as a Sandia Letter Report. During it issued and subsequently withdrawn for this results 303124. Since the report was not issued as eigenceptance of the report. Additionally, the Vental Was generated.	by the M&O as do cedure. 01 and 110 Revisi interviews with Sh cport. Finally, the ther an SLTR or	ion 01 stated that the des NL personnel it was state report was submitted to SAND report, there is n	ign analyses red that a SAND the Technical of the documented	port referenced above would report number had been Data Base under TDIF No. acceptance criteria for
7 Initiator Julian John Pelletier	8/31/95 Date 08/31/95	9 QA Review QAR Richard L. V	SY.W.	Date 08/31/95
10 Response Due Date	00/31/73	11 QA Issuance App		,
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12 Remedial Actions:		1 Will II III AUCANI	,	
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13 Remedial Action Response By:		14 Remedial Action	Due Date	
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15 Remedial Action Response Acceptance	Date	16 PR Verification/C	losure	Date
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8 DR NO. *ymqAb-95-D-016* PAGE 2 OF Z QA: L

DEFICIENCY REPORT

17 Recommended Actions:

- 1) Investigate other documents generated and utilized for design input to determine the extent of deficiency.
- 2) Based on results of above investigative action, determine impact and provide corrective action plan.
- 3) Provide actions to be taken to ensure future products generated by SNL are completed in compliance to a procedural process that clearly defines acceptance criteria.
- 4). Conduct investigative action to determine the status of other SNL WA's.
- 5) Based on the results of the investigative action, determine impact and provide corrective action plan.

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9 Root Cause Determination:			•
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1 Response by:		22 Corrective Action Comp	letion Due Date:
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1 Controlling Document:			2 Related Re	nort No
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3 Responsible Organization:		Discussed With:		•
M&O		Alden Segrest		•
5 Requirement/Measurement Criteria: Section 5.4.1, b) states, "To request or retr b) submits a written request for infor				
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7 Initiator Oplo 7-Vallot	8/31/45	9 QA Review	200	N/2 9/21/ac
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12 Remedial Actions:				
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17 Recommended Actions:			
1) Investigate to determine the	he extent of deficiency iden	ified in Block 6.	
2) Evaluate the impact of obt	taining technical data witho	ut complying with YAP-SIII.2Q.	·
3) Provide a corrective action	n plan to ensure future acqu	isitions of data from the TDB are	e in accordance with YAP-SIII.2Q.
18 Investigative Actions:			
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19 Root Cause Determination	n·		•
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20 Action to Preclude Recur	rence:		
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28 Closure Approved by:

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27 Corrective Actions Verified

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1 Controlling Document:	_		2 Related R		
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3 Responsible Organization:		4 Discussed With:	d,		
M&O/SNL		Michaele Brady			
5 Requirement/Measurement Criteria:					
Section 5.2.2, NOTE states, Preliminary d which includes the following statements; "I therefore, are considered to be preliminary. recorded in the ATDT and all technical and "PRELIMINARY-INFORMATION ONLY"	he data provided These data are fo quality checks a	herein have not received or information only and ca	complete techi nnot be used i	nical and quality checks and, for licensing activities until	
6 Description of Condition: Contrary to the above requirement, there is	no objective evide	ence that technical data pro	ovided to the l	M&O for scoping analyses	
studies for the "Design Support Analyses: N	_				
above stated requirement. Specifically, prel	•		_		
without including the following statements,			-	•	
and, therefore, are considered to be prelimin until recorded in the ATDT and all technical	· ·	•		_	
"PRELIMINARY-INFORMATION ONLY.		-	-		
technical data was sent to the M&O. The M					
throughout Revision 2 of the scoping analys	es.				
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7 Initiator John 7 Fello	8/31/95	9 QA Review	1.11.0	Chales 2/31/15	
John Pelletier	Date 08/31/95	QAR Richard L.	Weeks_	Date 08/31/95	
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8 DR NO. *У/19AD-95-D-012* PAGE 2 OF *2*. **CA:** L

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17 Recommended Actions:		
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1) Investigate to determine the extent of deficiency identified in	Block 6.	
2) Provide objective evidence that identified deficient condition	has been corrected.	
2) 110/140 00/00410 01/40/100 man rabilities well-to-in-to-i		
3) Provide a corrective action plan to ensure that when prelimin		ing recorded in the
ATDT, the data is appropriately identified as required in YAP-S	111.3Q.	•
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8	Performance Report Deficiency Report
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PAGE 1 OF 2 QA: L PERFORMANCE/DEFICIENCY REPORT 2 Related Report No. 1 Controlling Document: QARD, Revision 4 YM-ARP-95-19 3 Responsible Organization: 4 Discussed With: M&O John Pye 5 Requirement/Measurement Criteria: Sect 3.2.1, A. states, "Design inputs should be identified and documented, and their selection reviewed and approved by those responsible for the design." 6 Description of Condition: Data utilized as design input for the "TS North Ramp Ground Support Scoping Analysis" was not appropriately identified and documented as to its status (data utilized was "PRELIMINARY" and contained errors). Additionally, there is no objective evidence that the selection of design input from revision 1 of "Design Support Analyses: North Ramp Design Package 2C" was technically reviewed. 9 QA Review 8/31/95 Date 08/31/95 Frank Tsai **QAR** 10 Response Due Date 20 days after issuance 12 Remedial Actions: 14 Remedial Action Due Date 13 Remedial Action Response By: Date Date 15 Remedial Action Response Acceptance 16 PR Verification/Closure Date Date **QAR**

8 DR NO. *ymgad-95-1-013* Page 2 of 2-QA: L

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17 Recommended Actions:				
1) Investigate to determine the exter	nt of deficiency identifie	in Block 6.		,
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2) Determine the impact of using the	ie prelivinari, uii	eviewed data that was science	i for design input.	
3) Provide a corrective action plan t	to ensure technical revie	ws for the selection of data for	r design input is adequate.	
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28 Closure Approved by:

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Exhibit AP-16.1Q.3 Rev. 07/03/95

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