

Department of Energy

Office of Civilian Radioactive Waste Management Yucca Mountain Site Characterization Office P.O. Box 98608 Las Vegas, NV 89193-8608 NCT 0 4 1996

L. D. 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 DR YM-96-D-105 THROUGH YM-96-D-108 RESULTING FROM YMQA AUDIT YM-ARP-96-014 OF LOS ALAMOS NATIONAL LABORATORY

Enclosed are Deficiency Reports (DR) YM-96-D-105 through YM-96-D-108 generated as a result of Yucca Mountain Quality Assurance (YMQA) Audit YM-ARP-96-014.

Please identify the corrective actions to be taken and implemented to correct the deficiencies. Send the originals of your responses to Deborah G. Sult, YMQA/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada 89193-8608. Responses to the DRs are due 20 working days from the date of this letter. 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 Mario R. Diaz at 794-1489 or Stephen R. Dana at 794-1496.

Richard E. Spence Yucca Mountain Quality Assurance

Enclosure: DRs YM-96-D-105 through YM-96-D-108

YMQA:MRD-0019

102.7

7610080378 761004 PDR WASTE WM-11 PDR

REGP: NMSS/HLUR

L. D. Foust

OCT 0 4 1995

cc w/encl:

T. A. Wood, DOE/HQ (RW-14) FORS J. G. Spraul, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV R. L. Strickler, M&O, Vienna, VA B. R. Justice, M&O, Las Vegas, NV J. A. Canepa, M&O/LANL, Los Alamos, NM M. J. Clevenger, M&O/LANL, Los Alamos, NM Records Processing Center

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV S. R. Dana, YMQA/QATSS, Las Vegas, NV M. G. McDaniel, YMQA/QATSS, Las Vegas, NV D. G. Sult, YMQA/QATSS, Las Vegas, NV D.G. Horton, DOE/OQA, Las Vegas, NV

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KADIOACTIVE WAS U.S. DEPARTMI	F CIVILIAN 7H STE MANAGEMENT ENT OF ENERGY GTON, D.C.	NO. <u>YM-96-D-105</u> PAGE <u>1</u> OF <u>2</u>
		QA: L
PERFORMANCE/D	EFICIENCY REPORT	
Controlling Document:	2 Related Report No.	
os Alamos National Laboratory (LANL), Yucca Mounta Site Characterization Project (YMP) Quality Procedure QP), Revision 5, Yucca Mountain Site Characterization Project Administrative Procedure (YAP)		• .
Responsible Organization: ANL	4 Discussed With:	
	Mike Clevenger, John Friend	·
the RPC within 20 working days after the date in Subsection Paragraph 6.7.7: "Authentication should be within 20 w ackage." (AP-17.1Q, Paragraph 5.3.1.b): "ensure that any YMP	vorking days of completion of the la	
vhen an individual is leaving the YMP or changing jobs Description of Condition:	j.	· · · · /
Investigator: Mike Murrell Last Entry Date by Investigator: 12/21/94 Note: The completed package should include doc average. TWS-INC 7-09-91-07 Investigator: Jane Poths	cumentation of the calculations and	I results of the weighted
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14 Remedial Actions:						
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16 Root Cause Determination: (Not required for PR)	Required	□ _{Yes}	🗆 No			
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20 Response Accepted	Amended Amended Amended Amended		Date PR):	<u> </u>	one	
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Exhibit AP-16.1Q.2

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	PERFORMANCE/E	EFICIENCY REPOR	Т	
1 Controlling Document:		2 Related Report No		<u> </u>
U S. Department of Energy/I Assurance Requirements an Revision 5		YM-ARP-96-01	14	
3 Responsible Organization:	· · · · · · · · · · · · · · · · · · ·	4 Discussed With:		
Los Alamos National Labora 5 Requirement/Measurement Criteria:		Frank Perry/Greg	Valentine/Mike Clev	venger
QARD, Section III.2.4, Data be performed to confirm tech		nented independent re	eview of acquired ar	nd developed data
6 Description of Condition:	<u></u>	<u></u>	<u> </u>	
104, Pages 71-90; *I	Data reported in Table 1 Entrainment of Country Ro ta were derived from field	ock During Basaltic El	ruptions of the Luce	ro Volcanic Field,
104, Pages 71-90; "I Mexico"). These dat	Entrainment of Country Ro ta were derived from field on for Lathrop Wells Cento tudy Plans 8.3.1.8.5.1 and	ock During Basaltic En measurements recomer reported in noteboor 8.3.1.8.1.2 identified	ruptions of the Luce ded in notebook TW ok TWS-INC-03-93- that the reviews of	ro Volcanic Field, /S-ESS-5-6-93-01. 06, Page 129. scientific notebook
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RADIOACTIV U.S. DEP/ WA	ARTMENT	MANAGEMENT OF ENERGY		NOYM-96-D-107 PAGE _1_ OF_2 QA: L
Assurance Requirements and Description (QAR Revision 5	•••	Discussed With:		
Los Alamos National Laboratory (LANL)		ruce Crowe/Andrey	w Burningham	•
5 Requirement/Measurement Criteria: QARD, Section III.2.5.A, states: "Unqualified dat design activities. Traceability to its status as unc				investigation and
6 Description of Condition: Contrary to the above, the Volcanism Synthesis data cited in Chapters 3, 4, and 6, and the revise Quality Assurance Program," however the follow Chapter 6. K-Ar ages from Fleck et al (1996 Structural controls and boundari Interview with PI for Study Plan 8.3.1.8.1.1 indica presented in Chapter 3, Table 1 and that the volu addition Fleck et al were cited in the revised sect 7 Initiator , Maur & McKawe	ed sections ing unqual es from Ca ated that K ume estima tions of Ch	of Chapter 2 are " ified data sources of arr (1984) and Carr -Ar ages from Flec ates presented in C	Q" data, as defined were used for sens (1990). k et al, served as in Chapter 3, Table 1 v le Pages 2-19 throu	I by the Los Alamos itivity calculations in nput to the age values was unqualified data. In
Mary G. McDahiel Date 9/25/96	1	Yes DNo		Nust be Yes if PR
10 Recommended Actions: (Not required for PR) Determine and identify correct qualification status qualification status has been identified for any da Mountain Site Characterization Project," LA-1290	ita reporte	d in the 1995 "Statu	us of Volcanism St	udies for the Yucca
DAR Man A Manue Date 9/3		Response Due Date	n issuance	
13 Affected Organization GA mahager Issuance Approval: (CAR & Printed Name Charles E. Sence 22 Corrective Action Verified	ór PR) Signature	23 Closure Approved by	(NA for PR)	Date 10/3/96
QAR Date		AOQAM	. (IWA IUT FIL)	Date
Exhibit AP-16.1Q.1				Rev. 07/15/96

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17 Action to Preclude Recurr	ence: (Not required for PR)	Required	Yes No		
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	PERFORMANCE/DEFI	CIENCY REPORT		
1 Controlling Document:		2 Related Report No.		
Los Alamos National Laboratory Procedures (QP)-03.23, Revision	n 4	YM-ARP-96-014	· · · · · · · · · · · · · · · · · · ·	
3 Responsible Organization: LANL	·	Discussed With: Frank Perry/Mike Cle	venger	
5 Requirement/Measurement Criteria:				
6 Description of Condition: Contrary to the above, the LANL		mpleted for the Volca	anism Synthesis R	eport (1996 VSR),
milestone 3781, and forwarded to 1. Discrepancies by data. (The Statu also included the 2. Chapter 2, Table in Milestone 404 3. ⁴⁰ Ar/ ³⁹ Ar data for	o the project office without etween Chapter 2, Section us of Volcanism Studies for ese discrepancies.) e 2.6, Thermoluminescend 9, "Progress Report on G r samples SB-90-8-21BM(n Milestone 4049.	n IV, Pages 49 and 5 or the Yucca Mounta ce (TL) data which ha eochronology Studie	52, Table 2.4 and 1 in Site Characteriz ad been supersede s," Attachment 3,	Table 2.6 for the ³ He ation Project (1995) ed by TL data repor Table 7.
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14 Remodal Actions: 15 Edent of Condition. (Not required for PR) 16 Root Cause Determination: (Not required for PR) 19 Required 17 Action to Preclude Recurrence: (Not required for PR) 18 Required 19 Required 19 Required 10 Action to Preclude Recurrence: (Not required for PR) 18 Requests by: 19 Initial 19 Response by: 10 Amended Date 20 Response Accepted 21 Response Accepted						
15 Extent of Condition. (Not required for PR) 16 Root Cause Determination: (Not required for PR) 18 Root Cause Determination: (Not required for PR) 19 Required 17 Action to Preclude Recurrence: (Not required for PR) 17 Action to Preclude Recurrence: (Not required for PR) 18 Corrective Action Completion Due Deta: 19 Response by: Initial 20 Response Accepted 21 Response Accepted		PERFORMANC	E/DEFICIENCY RI	EPORT RESPO	NSE .	
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18 Root Cause Determination: (Not required for PR) Required Yes No 17 Action to Preclude Recurrence: (Not required for PR) Required Yes No 18 Corrective Action Completion Due Date: 16 Response by: Initial No 20 Response Accepted 21 Response Accepted (VA for PR);					·	
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20 Response Accepted	17 Action to Preclude I	Recurrence: (Not required for PR)	Required	□ Yes □ N		
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QAR Date AOQAM Date	17 Action to Preclude F 18 Corrective Action Co	Recurrence: (Not required for PR)	Required 19 Response by Initial I Amended	□ Yes □ N	5	