

Department of Energy

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

SEP 0.5 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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) YM-96-D-011, REVISION 1, RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-96-01 OF THE UNIVERSITY OF NEVADA AT RENO/SEISMOLOGICAL LABORATORY

The YMQAD staff has verified the corrective action to DR YM-96-D-011, Revision 1, and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either Robert B. Constable at (702) 794-5580 or Donald J. Harris at (702) 794-1467.

YMQAD:RBC-2550

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosure:

DR YM-96-D-011, Revision 1

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

R. P. Ruth, M&O, Las Vegas, NV

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cc w/o encl:

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

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

D. J. Harris, YMQAD/QATSS, Las Vegas, NV

D. G. Horton, DOE/OQA, Las Vegas, NV

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

Performance Report Deficiency Report
NO. YMQAD-96-D011eR1

	MACHINE	10.11, D.G.		FAGE 1 OF 2
				QA: L
PERFOR	MANCE/DI	EFICIENCY REPO	ORT	
1 Controlling Document: YMP-USGS-QMP-5.05, Rev. 4, Section 5, Scientif	ic Notebook		2 Related Re YM-ARP-96-	
3 Responsible Organization: M&O/UNRSL	_	Discussed With: Brune, D. Von Seggen	, B. Parks, T. C	haney
5 Requirement/Measurement Criteria: Page 2) 5.2 Notebook Identification - Scientific N 5.4 Notebook Format - shall be prebound. made in a manner that will enable legi referenced on the scientific notebook, a 5.6 In-Progress Entries shall contain the fo initials or signatures for individuals ma	Each side of a ble photocopie as appropriate. bllowing inform	page containing entries. Relevant loose maternation:Names of in	ies shall be nun erials should b	e securely fastened or
				•
I) The scientific notebook in use for the digital seigned. Some loose sheets appear to contain incom				
Initiator  Il phares for  James D. Agnew  Date	1/11/96	9 CA Review Afanal QAR Donald J. F	el Marri	Date 1/11/94
O Response Due Date  20 working days from issuance  2 Remedial Actions:		OAH IPHIAOOAM	indual   Vo toz IDR).	Date   . 16.96
Loose pages and computer files intended to be incorporated into the notebook or bound separ to and referenced in the notebook as an attach accurately describe their work will be signed to corrected. Unsigned and undated pages will be Responsible Individual: David von Seggren.  3 Remedial Action Response By:    Charles   Continued   Date   Date	ately, clearly a ment. A cove by individuals e reviewed by	marked as to which ser statement indicating performing the work investigators and sign	cientific noteborg that the enclor. Incomplete pened and dated	ook it is attached sed pages ages will be
N . 1	3/13/96		NA	Date

Exhibit AP-16.1Q.1

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

DR NO.	YMQA	D-96-D01	1. R1	
PAGE	2	OF	2	
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DEFICIE	NCY REPORT
scientific notebook. Each page shall be numbered. Individua pages accurately describe their work and their notations of sar	signed and dated by a supervisor, and reference made to it in the dispersorming the work shall sign a cover statement that the enclosed me: Signatures shall be made in dark ink (preferably black ink), and by marked as to which scientific notebook it is to be attached to.
18 Investigative Actions:	
To investigate the extent of the problem documented in notebooks were reviewed by Dr. David von Seggren of notebooks uncovered no problems similar to the ones as 0090 appears to be an isolated occurrence at this time a	the University of Nevada-Reno. The review of these ssociated with SN-0090. Thus, the problem with SN-
19 Root Cause Determination:	
N/A	
	· ·
20 Action to Preclude Recurrence:	<del></del>
N/A	
21 Response by: P. O. Suit Date 3/11/06	22 Corrective Action Completion Due Date:
23 Response Accepted  OAR Al Marks  Date 3/13/96	24 Response Accepted / 91. ADDAM / Date 3-20-96
25 Amended Response Accepted  OAR  Date	26 Amended Response Accepted  AOQAM  Date
27 Corrective Actions Verified  OAR (Lobert Blowstreble) Date 8.29.91	AOQAM COLOTTO CANOLINA Date 9.3-46

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

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NO. 3	YMQ	AD-	96-	D011	
PAGE		1	OF	2	
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V	PAGE 1 OF 2 QA: L		
PERFORM	ANCE/DEFICIENCY REPORT		
1 Controlling Document: YMP-USGS-QMP-5.05, Revision 4, Section 5, Scientifi	ic Notebook	2 Related Report No YM-ARP-96-0	
3 Responsible Organization: USGS/UNRSL	4 Discussed With: J. Brune, D. Von Segger	n, B. Parks, T. Ch	aney
5 Requirement/Measurement Criteria: Page 2) 5.2 Notebook Identification - Scientific Notebook	• •		
5.4 Notebook Format - shall be pre-bound. Each made in a manner that will enable legible preferenced on the scientific notebook, as ap	hotocopies. Relevant loose ma		
5.6 In-Progress Entries - in progress entries sha the work, and dated initials or signatures fo			f individuals performing
6 Description of Condition:  1) The scientific notebook in use for the digital seismic signed. Some loose sheets appear to contain incomplete	network contains information		
		·	
James D. Agnew  10 Response Due Date	9 QA Review 26/95 QAR Monal		is Date /1/1/95
20 working days from issuance	11 QA Issuance Approval QAR (PR)/ADQAM (DR)	A Company	Date ///-1/675
12 Remedial Actions:		<del>-21-7-11</del>	
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	•		
13 Remedial Action Response By:	14 Remedial Action Due C	)ate	
Date	AA BB 11 10 11 10		Date
15 Remedial Action Response Acceptance	16 PR Verification/Closure	2	•
QAR Date	QAR ·		. Date

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

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PAGE	2	OF	2
		QA:	L

WASHINGTON, D.C.						
	D	EFICIENCY RE	PORT			
17 Recommended Actions:  Loose pages shall be bound on a regular basis (e.g., monthly), signed and dated by a supervisor, and reference made to it in the scientific notebook. Each page shall be numbered. Individuals performing the work shall sign a cover statement that the enclosed pages accurately describe their work and their notations of same. Signatures shall be made in dark ink (preferably black ink), and the computer print-outs should be bound separately and clearly marked as to which scientific notebook it is to be attached to.						
					· .	
18 Investigative Actions:		-	•	- <u></u>	<del></del>	
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						•
19 Root Cause Determination:	<del></del>	<u></u>	. <u></u>			<u> </u>
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20 Action to Preclude Recurrence:		·		·		
				·		
21 Response by:		22 Co	rrective Action Co	mpletion Due Date:		<del></del>
	Date			•		
23 Response Accepted		24 Re	sponse Accepted			
QAR	Date		AMM		Date	
25 Amended Response Accepted			nended Response i	Accepted		
QAR  27 Corrective Actions Verified  4 }	Date		AMM  osure Approyed/  ix		Date	
.01	/A.		1 //2 //2	Si Alaha	400	11/9/
DAR Wydawis	Date [///	Z AUU	AMM LYDLE		ノ   Date	<u>1-10-11/2</u>

Exhibit AP-16.10.3

Rev. 07/03/95

### VERIFICATION OF CORRECTIVE ACTION TO DEFICIENCY REPORT YM-96-011,R1.

- a) Loose pages were bound, signed and dated by the supervisor and reference made to it in the Scientific Notebook. (SN0090)
- b) Each page was individually numbered and ran consecutively.
- c) A cover page was signed by the individual performing the work attesting to the accuracy of the results contained therein.
- d) All signatures were made so as to be reproducible.
- e) Computer printouts were included in the bound notebook.

This reviewer agrees with the statement that this is an isolated case as determined by investigative action.

As a result of my review of this Scientific Notebook it is concluded that the corrective action is adequate. This deficiency report is considered closed.

Signed.

Robert B. Constable.

8.29.96