

**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 9 1996

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ISSUANCE OF DEFICIENCY REPORT (DR) YMQAD-96-D046 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SUPPLIER AUDIT OF COLORADO DEPARTMENT OF AGRICULTURE (SCPB: N/A)

Enclosed is DR YMQAD-96-D046 generated as a result of OQA Supplier Audit OQA-SA-96-012.

Please identify the corrective action to be taken and implemented to correct the deficiency. A DR Continuation Page has been provided. Send the original of your response to Deborah Sult, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109. Response to the DR is due 20 working days from the date of this letter. Any extension to due date must be requested in writing, with appropriate justification, prior to the due date.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Richard L. Maudlin at 794-7290.

YMQAD:RBC-1374

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

.

Enclosures:

1. DR YMOAD-96-D046

2. PR/DR Continuation Page

YMP-5

9603250356 960319 PDR WASTE WM-11 PDR DHO3:11

Robert W. Craig

### cc w/encls:

- J. G. Spraul, NRC, Washington, DC
- S. W. Zimmerman, NWPO, Carson City, NV
- T. H. Chaney, USGS, Denver, CO

### cc w/o encls:

- W. L. Belke, NRC, Las Vegas, NV
- R. L. Maudlin, YMQAD/QATSS, Las Vegas, NV
- D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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

<sup>8</sup> □Performance Report
☑Deficiency Report
NO.YMOAD-96-D046

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PERFORMANCE/DEFICIENCY REPORT				
1 Controlling Document:		d Report No.		
OCRWM QARD, DOE/RW-0333P, Revision 5		SA-96-012		
3 Responsible Organization:	4 Discussed With:			
Colorado Dept. of Agriculture/U.S. Geological Survey	W. Young / W. Rodman / A. Lykins			
(USGS)				
5 Requirement/Measurement Criteria:	* 1			
<ul> <li>A. QARD, Section 12.0, Subsection 12.2.1A, states in part: "Measuring and Test Equipmentshall be calibratedagainst reference calibration standards having traceability to nationally recognized standards."</li> <li>B. QARD, Section 12.0, Subsection 12.2.7, states in part: "Measuring and Test Equipment calibration documentation shall include the following informationidentification of the implementing document (including revision level) used in performing the calibration."</li> <li>C. QARD Section 17.0, Subsection 17.2.11, states in part: "QA Records shall be temporarily stored in a container or facility with a fire rating of 1hr, or dual storage shall be provided."</li> <li>D. QARD, Section 12.0, Subsection 12.2.1, states in part: "Software developed or modified by the user shall be controlled in accordance with Supplement I, Software." QARD, Supplement I, Subsection I.2.3, states: "The software verification shall be performed and documented to insure that baseline elements meet the established requirements."</li> </ul>				
6 Description of Condition:				
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<ul> <li>Contrary to the above:</li> <li>A. No documentation could be provided to demonstrate the calibration of the devices used to monitor temperature, humidity, and barometric pressure in the laboratory.</li> <li>B. Calibration documentation for the calibration of USGS standards Troemner 211.11g x 1mg weight set, Troemner 1kg weight, and Ainsworth 222.221g x 1mg weight set does not reference the procedure(s) used to perform the calibration.</li> <li>C. Calibration records (worksheets) maintained by the Colorado Dept. of Agriculture are not being stored in a 1hr fire rated cabinet or in duplicate storage.</li> <li>D. Computer software has been developed by the Colorado Dept. of Agriculture in performing the calculations described in SOPs 2 and 4; however, there is no documentation to indicate that the software was tested for validity prior to use.</li> </ul>				
7 Initiator Janel.	9 QA Review	3/ /		
Richard L. Maudlin . Date 3/13/96	QAR Sanger.	Date /14/96		
10 Response Due Date:	11 QA Issuance Approval			
20 Working Days From Issuance	11 QA Issuance Approval (1) Q1 A A D O QAR (PR)/AOQAM (DR)	- Late 3.19.96		
12 Remedial Actions:				
13 Remedial Actions Response By:	14 Remedial Action Due Date			
Date		Date		
15 Remedial Action Response Acceptance	16 PR Verification /Closure			
QAR Date	QAR	Date		

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

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DEFICIENCY REPORT				
17 Recommended Actions:				
A. Take the necessary and Document all future of		st calibration of devices used to	monitor laboratory environment.	
B. Update all USGS cal	libration records to inc	clude the procedure and revision ressure this occurs in future calib	n of the procedure used to perform	
C. Either require Colora	do Dept. of Agricultur	e to maintain calibration and oth	ner records in a 1hr fire rated facility or	
duplicate storage, or request all pertinent records to be submitted to USGS for storage.  D. Document the testing (verification) of software program Doublesb.bas. Provide documented requirements for version control and software verification (testing for validity).				
18 Investigative Actions:	<del></del>	<u> </u>		
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19 Root Cause Determination:				
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20 Action to Preclude Recurrence:			· · · · · · · · · · · · · · · · · · ·	
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21 Response By:		22 Corrective Action Completion D	hue Dota	
	Date	- Someoute Action Completion L		
23 Response Accepted		24 Response Accepted	<del></del>	
QAR	Date	AOQAM	Date	
25 Amended Response Accepted	Date	26 Amended Response Accepted		
QAR	Date	AOQAM	Data	
27 Corrective Action Verified		28 Closure Approved by:	Date	
QAR	Date	AOQAM	Data	
WORK	Date		Date	

# 8 Performance Report Deficiency Report OFFICE OF CIVILIAN **RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY** NO. WASHINGTON, D.C. PAGE QA: L PR/DR CONTINUATION PAGE