

**Department of Energy** 

Yucca Mountain Site Characterization Project Office P. O. Box 98608 Las Vegas, NV 89193-8608

WBS 1.2.9.3

JUN 0 9 1992

Larry R. Hayes Technical Project Officer for Yucca Mountain Site Characterization Project U.S. Geological Survey 101 Convention Center Drive Suite 860 Las Vegas, NV 89109

EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR) YM-92-028 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-92-13 OF U.S. GEOLOGICAL SURVEY (USGS)

The YMQAD staff has evaluated the response to CAR YM-92-028. The response has been determined to be satisfactory. Verification of completion of the corrective action will be performed after the effective date provided. Any extension to this date must be requested in writing, with appropriate justification, prior to the date. Please send a copy of extension requests to Nita J. Brogan, Science Applications International Corporation, Las Vegas, Nevada.

If you have any questions, please contact either Robert B. Constable at 794-7945 or James Blaylock at 794-7913.

R. C. Spince

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

YMQAD:RBC-3803

Enclosure: CAR YM-92-028

cc w/encl: •K+-R-Hooks-NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV T. H. Chaney, USGS, Denver, CO D. D. Porter, SAIC, Golden, CO

cc w/o encl: J. W. Gilray, NRC, Las Vegas, NV N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12

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ADD: Ken Hooks

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RADIOACTIVE U.S. DEPAR	E OF CIVILIAN WASTE MANAGEME TMENT OF ENERGY INGTON, D.C.		CAR NO.: <u>YM-92-028</u> DATE: <u>4/14/92</u> CHEET: <u>1</u> OF <u>1</u> QA
CORRECTIVI	E ACTION REQUEST		
1 Controlling Document USGS QAPP, Revision 5		Related Re Audit YMP	
3 Responsible Organization USGS	4 Discussed With E. Gutentag, USGS		
USGS QAPP, Revision 5, Paragraph 12.2.1 statunique identification. This identification etc., with the measurement taken, to insure device that was used to take the measurement for the measurement of the measurement of the taken in the implementation of temperature (air and water) and conductivity instrument used to acquire the data.	shall be recorded on the traceability to the meas t. NWM-USGS-HP-23, Revision	data she urement o 2, relat	et, log, f the ed to
adverse to quality exist? Yes No_X Yes	stop work condition exist? No <u>x</u> ; if Yes - Attach copy c Circle One: A B C D		11 Response Due Date: 20 Days From Issuance
<sup>12</sup> Required Actions: Remedial X Extent of Defi	ciency 🕅 Preclude Recur	rence	Root Cause Determination
<ol> <li>Recommended Actions:         <ol> <li>Identify whether the above mentioned ac quality-related activities.</li> <li>Identify these activities and provide t</li> <li>Investigate the program process and ide recurrence.</li> </ol> </li> </ol>	the measures required to	correct t	hem. ent
7 Initiator J Blayforl Date 4/19/ 15 Response Accepted OAR J Blayforl Date 6/5/ 17 Amended Response Accepted	16 Response Accepted	Ancs PApro	e Date 6/9/92
QAR Date	QADD	/	Date
19 Corrective Actions Verified	20 Closure Approved b	y:	
QAR Date	QADD		Date

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

CAR NO.	YM-92-028
	5/19/92
PAGE:	OF
	QA

## **CORRECTIVE ACTION REQUEST (Continuation Page)**

## 1. YMP-USGS CORRECTIVE ACTION RESPONSE FOR CAR # YM-92-028

A. Remedial Action - Actions taken to correct specific deficiencies noted.

Not requested from Yucca Mountain Quality Assurance Division Office.

B. Investigative Action - Actions taken to determine the extent of the condition.

Inspection of SCP Activity # 8.3.1.5.2.1.3 sample collection data forms indicated that thermometer and conductivity meter equipment identification generally were not recorded with the data measurements.

The fact that temperature probe and conductivity meter identifications have not been recorded in a logbook or other organized document in the past has not negatively impacted the data collected with those instruments. The need for traceability between the measuring and test equipment (M&TE) and the measurements taken is to assure that the affected data can be identified if a piece of M&TE is found out of calibration. Recording the unique identification of each piece of M&TE with each recording of measurements taken provides a very direct link. Traceability can be established by other means, i.e., listing of active equipment for the Activity. Even though several different temperature probes could have been used to collect a measurement, if one of the probes fails, the investigator can always bracket the suspect data. In not specifically identifying which instrument is used in taking the measurement, the investigator runs the risk of having a larger block of data that may be suspect than if care was taken to specify the individual instrument.

Because of the lack of quality impact, no further investigative actions are warranted.

C. Root Cause Determination - Identification of the root cause of the condition.

Not requested from Yucca Mountain Quality Assurance Division Office.

D. Corrective Actions To Preclude Recurrence - Actions taken to address the root cause and preclude recurrence of the condition.

For the cited adverse condition, the sample collection data forms will be changed to specifically address the overlooked requirement. In the future, this will assure exact instrument identification will be recorded with the measurements taken.

YMP-USGS-QMP-5.01, Preparation of Technical Procedures, and YMP-USGS-QMP-5.05, Scientific Notebook System, will be changed to appropriately address the cited requirement.

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•	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.	<u>8 C 0</u>				
	CORRECTIVE ACTION REQUEST (Continuation Page)					
	2. Scheduled Corrective Actions and Responsibilities.					
	6/01/92 Change sample collection data forms E. Gutentag					
	6/30/92 Change YMP-USGS QMPs 5.01 and 5.05 T. Chaney					
	3. Response Approved:					
	Larry R. Hayes,) USGS Chief, Date Thomas H. Chaney, Date					
	Yucca Mountain Project Branch YMP-USGS Quality Assurance Manager					
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	CORRECTIVE A	CTION REQUEST (Co	ntinuation Pa	ge)		
1. YMP-USGS SU	JPPLEMENTAL RESPON	ISE FOR CAR # YM-92	-028			
A. Remedial	Action - Actions taken 1	to correct specific defic	iencies noted.			
	Temperature probes T18130, T18127, T15575, and T15593 used in support of HP-23 were recalibrated and found to be within acceptable limits.					
Conductiv calibrate e	ity meters 76014, 960 ach use. Remedial acti	265, and 960266 used ions are not warranted	in support of H for the conduct	P-23 are operator-to- ivity meters.		
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3: Response Appr	oved:					
			N			
Larry R. Hayes, U Yucca Mountain		z Thomas H. Chane YMP-USGS Qual	y, Da			
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