

**Department of Energy** 

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

DEC 27 1994

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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-94-049 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YMP-94-06 OF U.S. GEOLOGICAL SURVEY (SCPB: N/A)

The YMQAD staff has verified the corrective action to CAR YM-94-049 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at 794-7945 or James Blaylock at 794-7943.

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

YMQAD:RBC-1495

Enclosure: CAR YM-94-049

cc w/encl: NRC, Washington, DC

S. W. Zimmerman, NWPO, Carson City, NV

T. H. Chaney, USGS, Denver, CO

R. W. Craig, USGS, Las Vegas, NV

D. D. Porter, USGS/SAIC, Golden, CO

cc w/o encl:

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

D. G. Sult, YMOAD/OATSS, Las Vegas, NV

102.7 WM-11'



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

8	CAR NO.: YM-94-049			
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	WASHINGTON, D.C.					
_	CORRECTIVE	ACTION REQUE	ST			
1	Controlling Document QARD, Rev. 0	<del></del>	2 Related Repo	rt No.		
3	Responsible Organization usgs	4 Discussed With T. CHANEY				
5	5 Requirement:  Section 5.2.2.D of the QARD states, in part: "Implementing documents shall include the following information as appropriate to the work to be performed: D. Quantitative or qualitative acceptance criteria sufficient for determining that activities were satisfactorily accomplished."					
6	Adverse Condition:  OMP 16.03, R3, provides no criteria as to wha hence the rationale and conclusions of the tr periods 10/1/93 - 12/31/93 and 1/1/94 - 3/31/by the information provided.	end reports for the t	ime			
9	Adverse to Quality exist? Yes Nox Yes	stop work condition exist?  No_X; If Yes - Attach co  Circle One: A B C	py of SWO 20	Response Due Date:  LXRKING DAY!		
11 Required Actions: 🛛 Remedial 🔲 Extent of Deficiency 🔯 Preclude Recurrence 🔲 Root Cause Determination						
12 Recommended Actions: 1. Provide qualitative criteria in QMP 16.03. 2. Change the definition of adverse condition to be consistent with the QARD glossary. 3. Substantiate the trend reports for the time frame identified above.						
	Initiator J. BLAYLOCK C.C. Warn you 6-30-94		wah/a	β~ <sub>Date</sub> 7 - Δ . 94		
17	Amended Response Accepted  OAR John Date 9/8/9  Amended Response Accepted  OAR John Date 9/12/9  Corrective Actions Verified	16 Response Accel 14 QADD 18 Amended Response 14 QADD DESCRIPTION 20 Closure Approx	onse Accepted	Date Frequent		
	QAR J Blayfol Date 12/20		Dustible of	Date 12 . 23 . 94		

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

- 1. CORRECTIVE ACTION RESPONSE FOR CAR No. YM-94-049
  - A. <u>REMEDIAL ACTION</u>: The two trend reports generated during the identified time frame will be reviewed. The review will address consistency of the approach for identifying adverse quality trends. The Quality Assurance Management Information Reports will be amended to add any supplemental information required to clarify the qualitative criteria in the trend analysis contained in the reports found.
  - B. <u>EXTENT OF THE DEFICIENCY</u>: Two quarterly Quality Assurance Management Information Reports were produced during the time frame indicated.
  - C. ROOT CAUSE DETERMINATION: Not. Required.
  - D. <u>CORRECTIVE ACTION TO PRECLUDE RECURRENCE</u>: YMP-USGS QMP-16.03, R3 will be modified to include qualitative criteria for trend identification and to change the definition of "condition adverse to quality" to be consistent with the QARD.
- 2. For each action above, identify the name of the individual assigned responsibility for completion of the action and the anticipated (or actual, if complete) completion date.

1.A N.R. Karas, Program Development Coordinator

10/01/94

1.D N.R. Karas, Program Development Coordinator

10/01/94

3. RESPONSE APPROVED:

Thomas H. Chaney

Thomas H. Chaney

YMP-USGS Quality Assurance Manager

Larry R. Hayes

Chief, Yucca Mountain Project Branch

Date

Date

8/1/94 Ltr. Dayes to Sporce

REV. 2/14/94

CAR94-49.163

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#### **CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)**

#### Verification Statement for CAR YM-94-049

The USGS revised QMP 16.03 to provide criteria as to what constitutes a trend. The QMP 16.03, R3-M1 became effective December 5, 1994. In addition, the USGS did an impact analysis on the trend reports for 10/11/93 - 12/31/93 and 1/1/94 -3/31/94. This was documented in a letter dated 12/2/94, Tom Chaney to Richard Spence. The trend report for 4/1/94 - 6/30/94 was reviewed for implementation. This trend report was distributed internally within the USGS by a letter dated 8/12/94, Tom Chaney to distribution. This trend report properly implemented QMP 16.03, R3-M1.

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#### CORRECTIVE ACTION REQUEST (Continuation Page)

- 1. AMENDED CORRECTIVE ACTION RESPONSE FOR CAR NO. YM-94049
- REMEDIAL ACTION: The Quality Assurance Management Information Reports A. generated under revision 3 of QMP-16.03, prior to the modification discussed under Corrective Actions to Prevent Recurrence, will be amended as necessary. The amendments will:
  - Discuss any differences in approach used in those reports and the approach 0 specified in the modified OMP-16.03.
  - Clearly identify any trends (using the criteria in the modified procedure) evident 0 during those time periods, and
  - State what actions are being taken in regards to those trends (which will be in 0 compliance with the procedure as modified).
- B. **EXTENT OF DEFICIENCY:** There have been three quarterly Quality Assurance Management Information Reports produced under QMP-16.03, R3 prior to modification.
- C. **ROOT CAUSE DETERMINATION:** Not required.
- D. CORRECTIVE ACTION TO PREVENT RECURRENCE: YMP-USGS QMP-16.03, R3 will be modified to include qualitative criteria for trend identification and to change the definition of "condition adverse to quality" to become insistent with the QARD.
- 2. For each action above, identify the name of the individual assigned responsibility for completion of the action and the anticipated (or actual, if complete) completion date.

1.A. N.R. Karas 1.D. N.R. Karas 10/15/94

10/03/94

3. RESPONSE APPROVED:

Thomas H. Chaney

YMP-USGS Quality Assurance Manager

Larry R. Haves

Chief, Yucca Mountain Project Branch

Extra CAP-16.1.2 8/23/94 Lts. Payer to Spence