

Department of Energy

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

OA:

AUG 2 2 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

EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR) YM-94-047 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMOAD) AUDIT YMP-94-06 OF U.S. GEOLOGICAL SURVEY (SCPB: N/A)

The YMQAD staff has evaluated the response to CAR YM-94-047. 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 Deborah Sult, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Charles C. Warren at 794-7248.

YMOAD: RBC-4760

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosure: CAR YM-94-047

cc w/encl:

R. L. Johnson, 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, SAIC, Golden, CO

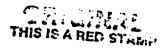
cc w/o encl:

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

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

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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

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_	CORRECTIVE ACTION REQUEST					
-		ACTION REQUE		Daniel Na		
	Controlling Document QARD, Rev. 0		2 Related i YMP-94-			
3	Responsible Organization USGS	4 Discussed With T. CHANEY				
5	Requirement:					
	DOE/RW/0333P QARD, Section 2.2.9c, states for Document Review: "The review shall be performed by individuals other than the originator." QARD Section 2.2.9f states: "Mandatory comments resulting from the review shall be documented and resolved before approving the document." QARD Supplement III, Section III 2.2.4 states: "The reviewer shall be independent from the collector."					
6	Adverse Condition:					
	 Contrary to the QARD Requirements, QMP-3. review comment resolution with the indepereviewer. QMP-3.04, para. 5.4.3.2 and 5. YMPB Program Chief to resolve comments. responsibilities of directing the work de of the review. Contrary to QARD an independent data reviewelogic Data DTN #G5920708314221.003: The reviewer changed data without The Acting Program Chief GSP appr 	endent technical 4.4.4 requires the The YMPB Program Chie feats the independent ew was not performed an independent revie	e for			
9	· · · · · · · · · · · · · · · · · · ·	stop work condition exist? No x ; If Yes - Attach co		3 Response Due Date: 20 Working Days from		
		Circle One: A B C	٠, ٥, ٥, ١	Issuance		
11	Required Actions: X Remedial X Extent of Defic	ciency 🛛 Preclude Re	currence [Root Cause Determination		
12 Recommended Actions: 1. Revised QMP 3.04 to be consistent with QMP 3.07 and meet QARD requirements. 2. Perform the actions indicated in block 11.						
	Initiator T. SWIFT C.C Waner for 6-30	14 Issuance Appro	ved by	- 12 Date 7.4.94		
	Response Accepted OAR CC War Date 8-11-6		1000	Date 8.19.94		
17	Amended Response Accepted	18 Amended Respo	onse Accepte	d		
	QAR Date	QADD		Date		
19	Corrective Actions Verified	20 Closure Approve	ed by:			
	QAR Date	QADD		Date		

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CORRECTIVE ACTION REQUEST (Continuation Page)

- 1. CORRECTIVE ACTION RESPONSE FOR ITEM 1 OF CAR No. YM-94-047
 - A. <u>REMEDIAL ACTION</u>: Reviewed YMP-USGS QMP-3.04, R5 as it applies to QARD requirements cited.
 - B. <u>EXTENT OF THE DEFICIENCY</u>: Existing requirements were investigated. The requirements of QARD Supplement III.2.4.A.3 and Section 2.2.9F are met with existing YMP-USGS-QMP-3.04 R5-M1 requirements but may be enhanced by including the independent technical reviewer in the comment resolution process. The Program Chiefs are generally independent of the data collection, therefore it is appropriate for responsible YMPB-USGS Program Chiefs to determine satisfactory resolution of review comments and provide independent judgement between scientific opinions and evaluate comments and responses to assure that appropriate resolution actions are taken.
 - C. <u>ROOT CAUSE DETERMINATION</u>: YMP-USGS-QMP-3.04, R5 did not provide for the participation of the independent technical reviewer in the comment resolution process nor did it stipulate independence of the Program Chief from the actual work under review.
 - D. <u>CORRECTIVE ACTION TO PRECLUDE RECURRENCE</u>: YMP-USGS-QMP-3.04, R5 will be modified to include the independent technical reviewer in the comment resolution process and to ensure independence (as defined in QARD Supplement III.2.4A.3) of responsible management for instances when the author and reviewer cannot come to resolution.
- 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., B., & C. M.H.Mustard, YMP-USGS Quality Assurance Specialist A.M.Whiteside, YMPB QA Implementation Advisor

7-22-94

1.D. R. Scavuzzo, Quality Assurance Specialist
A.M. Whiteside, YMPB QA Implementation Advisor

08/31/94

3. RESPONSÉ APPROVED.

Thomas H. Chaney
YMP-USGS Quality Assurance Manager

Larry R. Hayes

Date

Date

Chief, Yucca Mountain Project Branch

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REV. 2/14/94

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CORRECTIVE ACTION REQUEST (Continuation Page)

- 1. CORRECTIVE ACTION RESPONSE FOR ITEM 2 OF CAR No. YM-94-047
 - A. REMEDIAL ACTION: Geologic data for cited DTN GS920708314221.003 are being re-reviewed by an independent reviewer as required by YMP-USGS-QMP-3.04.
 - B. EXTENT OF DEFICIENCY: An investigation will consist of sampling other reviewed data to determine if problems are noted with reviewer independence.
 - C. ROOT CAUSE DETERMINATION: To be determined based upon completion of investigative actions noted in 1.B above.
 - D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE: To be determined based upon completion of root cause determination.
- 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. J.S.Stuckless, GSP Chief to assure completion of review. 10/03/94

1.B. T.M.Mendez-Vigo, GSP QA Implementation Specialist to complete sampling and present results to GSP Chief.

10/03/94

1.C. & D. J.S.Stuckless and T.M.Mendez-Vigo to provide supplemental CAR response to outline results and remaining actions.

10/17/94

3. RESPONSE APPROVED

Thomas H. Chanev

YMP-USGS Quality As surance Manager

Larry 48. Haves

Chief, Yucca Mountain Project Branch

0/1/99 Date