

Department of Energy

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

MAY 28 1996

Robert W. Craig Acting 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) YMOAD-96-C005 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARC-96-10 OF U.S. GEOLOGICAL SURVEY (SCPB: N/A)

The YMQAD staff has evaluated the response to CAR YMQAD-96-C005. 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 that date. send a copy of extension requests to Deborah Sult, YMQAD/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada 89193-8608.

If you have any questions, please contact either Robert B. Constable at 794-5580 or Kenneth T. McFall at 794-5470.

Richard E. Spence, Director

Yucca Mountain Quality Assurance Division

YMOAD: RBC-1828

Enclosure: CAR YMQAD-96-C005

cc w/encl:

J. G. Spraul, NRC, Washington, DC

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

T. H. Chaney, USGS, Denver, CO

D. G. Horton, OQA (RW-3) NV

W. E. Barnes, YMSCO, NV

Records Processing Center

cc w/o encl:

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

K. T. McFall, YMQAD/QATSS, Las Vegas, NV

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

9606030106 960528 PDR WASTE Rag WM-11

CRIGINAL THIS IS A RED STAMP

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

CAR NO.	YMQAI)-96-	-C005	
PAGE			13 L72	
		QA:	LV	W

WASHINGTON, D.C.			
COF	RRECTIVE ACTIO	N REQUEST	
1 Controlling Document:	<u></u>	2 Related Report No.:	
QARD, DOE/RW-0333P, Revision 5, and AP-16	5.10, Revision 0	YM-ARC-96-10	
3 Responsible Organization:	4 Discussed	With:	
U.S. Geological Survey (USGS)	P. Rodriguez	z / T. Chaney	
 Requirement: QARD, Revision 5, Paragraph 16.2.5, requires when actions are complete. AP-16.1Q, Revision 0, Paragraph 5.1.3b requires DRs. AP-16.1Q, Revision 0, Paragraph 5.1.5c requires change in status occurs. AP-16.1Q, Revision 0, Paragraph 6.3 requires DRs. The PR/DR log identifies, as a minimum for responding to the PR or DR, the date of issues Description of Condition: Contrary to the above requirement, USGS-95 Contrary to the above requirement, there is not a response. DOCUMENT RESPONSE DUE DUSGS-95-D010 No Response date git USGS-95-D16 10/18/95 USGS-95-D002 10/6/95 	ires the Affected Organicies the PR/DR Coordinates that the PR/DR log be in that the PR/DR log be in the unique PR or DR ance, and other action decomposed over DR log has not been main adocumentation for US adocumented evidence to	close corrective action documentation in a timely manner zation PR/DR Coordinator to maintain a log of PRs and ator to update the PR/DR log as PRs and DRs are issued or maintained for tracking the progress and status of PRs and number, the assigned QAR, the organization responsible ue dates, as appropriate. five months after the completed corrective action.	
7 Initiator:	9. Do	es a stop work condition exist? 'esNo; If Yes, Attach copy of SWO	
	77/76	Yes, Check One: A B C D	
 10. Recommended Actions: Take immediate action to determine the status of documents accordingly. Perform remedial action to bring deficiencies under the extent of the deficiency. Examination Perform a root cause analysis to determine how to be preclude recommendation. Determine the actions necessary to preclude recommendation. 	p to date. ne all initiated PRs and and why the deficient of		
11 QA Review:	. 12 Re	esponse Due Date:	
Keund Mar Date 3	/29/96 2	O working days from issuance	
13 Affected Organization QA Manager Issuance Printed Name R.E. SPENCE	e Approval: Signature	polo Comboto do Date 4.10.96	

CAR NO) .	
PAGE	2	OF 3
		04.1

	CTION REQUEST
14 Remedial Actions:	
See response dated 5/10/96	
	• •
	•
15 Investigative Actions:	
See response dated 5/10/96	
16 Root Cause Determination:	
See response dated 5/10/96	
·	
17 Action to Preclude Recurrence:	
	·
See response dated 5/10/96	·
18 Response by:	19 Corrective Action Due Date:
See response Date 5/10/96	See response dated 5/10/96
20 Response Accepted	21 Response Accepted
Date 5/20/96	ADDAM / SAMO Date 5/24/96
22 Amended Response Accepted	23 Amended Response Accepted
QAR Date	AOQAM Date
24 Corrective Actions Verified	25 Closure Approved by:
QAR Date	AOQAM Date
Eublibit AB 16 20 1 2	Bay 07/03/95

8	☑ □	Corrective Ac Stop Work Or	tion f	Request	t

NO. YMQAD-96-C005
PAGE 123 OF 13

CAR/SWO CONTINUATION PAGE

Block 5, Requirement, cont'd

- 3. AP-16.1Q, Revision 0, Paragraph 5.1.5b, requires the PR/DR Coordinator to maintain PRs, DRs, continuation page(s), requests for extension and all relevant correspondence for status and records.
- 4. AP-16.1Q, Revision 0, Paragraph 5.3h, requires the Responsible Individual to transmit a response by the response due date to the PR/DR Coordinator.
- 5. AP-16.1Q, Revision 0, Paragraph 5.1.2.1, requires the QAR to issue a copy of the PR to the Responsible Individual for response with a copy to the Affected Organization's QA Manager for notification.
- 6. AP-16.1Q, Revision 0, Paragraph 5.1.4.C requires the Affected Organization's QA Manager to forward a copy of the DR with applicable issuance correspondence to the Responsible Individual.

Block 6, Description of Condition, cont'd

6. Contrary to the above requirement, the following DRs were initiated to address conditions adverse to quality, but were not issued by USGS: USGS-95-D010, D012, D014, D015, D017, and D018.

	Stop Work	Order
-	NO.YM@	AD-96-c005
	PAGE	OF

QA:L

K Corrective Action Request

CAR/SWO CONTINUATION PAGE

Block 14: Remedial Actions:

USGS-95-D012

USGS-95-D013

USGS-95-D014

USGS-95-D015

The CARLOG will be brought up to date for YMP-USGS initiated deficiencies (includes PRs. DRs. and CARs) and will be updated within a week of change of status. Open deficiencies are being prioritized and QA Office actions (issuance, evaluation of responses, verifications, closures) will proceed according to the prioritization. The QA Manager will meet weekly with the PR/DR/CAR Coordinator to review the status of deficiencies and re-set priorities.

The status of the specific deficiencies cited in this CAR are as follows:

USGS-95-D001 OAR to verify. USGS-95-D002 Response in progress. USGS-95-D010 Response in progress.

> The number was assigned on the paper-copy DR log for the proposed conversion of Quality Deficiency Report (ODR) ODR-94027-2 but ODR-94027-2 was converted to a PR (USGS-96-P013) instead. This DR number was never actually used for an issued deficiency document and will not be used. It was never entered into the CARLOG. The paper log has been updated to

state the correct status. No further actions are necessary.

The number was assigned on the paper-copy DR log for the proposed conversion of ODR-95001-2 but ODR-95001-2 was verified and closed without conversion. This DR number was never actually used for an issued deficiency and will not be used. It was never entered into the CARLOG. The paper log has been updated to state the correct status. No further actions are necessary.

The number was assigned on the paper-copy DR log for the proposed conversion of ODR-95009-2 but ODR-95009-2 was converted to a PR (USGS-96-P010) instead. This DR number was never actually used for an issued deficiency document and will not be used. It was never entered into the CARLOG. The paper log has been updated to state the correct status. No further actions are necessary.

The number was assigned on the paper-copy DR log for the proposed conversion of QDR-95048-3-2 but QDR-95048-3 was verified and closed without conversion. This DR number was never actually used for an issued deficiency and will not be used. It was never entered into the CARLOG. The paper log has been updated to state the correct status. No further actions are necessary.

Page 1 of 4

FRM00028.001 5/12/96 CRAIG TO SPENCE

-	Corrective Action Request Stop Work Order
	NO. YMGAD-96-COS

	NO. YMOA	D-96-cos
	PAGE	OF
-		QA:L

CAR/SWO CONTINUATION PAGE

	•
USGS-95-D016	Response is in progress. This DR number will be entered into the CARLOG.
USGS-95-D017	The number was assigned on the paper-copy DR log for the proposed conversion of QDR-95041-2 but QDR-95041-2 was converted to a PR (USGS-96-P015) instead. This DR number was never actually used for an issued deficiency document and will not be used. It was never entered into the CARLOG. The paper log has been updated to state the correct status. No further actions are necessary.
USGS-95-D018	The number was assigned on the paper-copy DR log for the proposed conversion of QDR-94041-2 but QDR-94041-2 was converted to a PR (USGS-96-P012) instead. This DR number was never actually used for an issued deficiency document and will not be used. It was never entered into the CARLOG. The paper log has been updated to state the correct status. No further actions are necessary.
USGS-96-P001	Response received with initiated PR, verification presently being documented
USGS-96-P002	Response received with initiated PR, verification presently being documented
USGS-96-P003	Response received with initiated PR, verification presently being documented
USGS-96-P004	Response received with initiated PR, verification presently being documented
USGS-96-P005	Closed 4-23-96
USGS-96-P006	Actions in progress.
USGS-96-P007	Response to be evaluated.
USGS-96-P008	Closed 4-15-96

Block 15 Investigative Actions:

The scope of this condition encompasses all USGS initiated deficiencies with regard to timeliness of actions and timeliness of CARLOG updates. (See cause statement.) Priority was given to those YMP-USGS deficiencies that impacted milestones and to DOE initiated deficiencies. There is no evidence of a negative impact on USGS products, other than this tardiness.

With regard to non-issuance of deficiency documents identified on logs and the lack of documentation for cited DRs, these conditions arose because DRs or PRs were drafted or,

r	Concentre Action nequest
	Stop Work Order
	NO. YMPAD-96-COOS
	PAGE OF
	QA:L

CAR/SWO CONTINUATION PAGE

at least the numbers assigned on the paper logs, in anticipation of a conversion from our Quality Deficiency Report (QDR) system that never took place. YMP-USGS deficiency documents under our old internal system of QDRs were slated to be converted to the Project-wide system of PRs, DRs, and CARs by the end of September 1995 as part of DOE's Verification Transition (see DOE Office of Civilian Radioactive Waste Management (OCRWM) report "Reengineering of the Quality Assurance Function on the Office of Civilian Radioactive Waste Management Program"). The date of conversion to PRs/DRs was pushed back to December 1995 and the FY '95 deficiency numbers were not used. There is no negative impact from these deficiencies not being issued as identified on the paper logs; the QDRs were either verified and closed under their original QDR designation or were converted to FY '96 PRs. These unused FY '95 DR numbers were never entered into the official DOE computer database CARLOG but tracked only on paper-copy logs. The paper-copy logs have now been updated.

Block 16: Root Cause:

The root cause of the untimely actions is that the QA Office staff was cut back from 13 full-time positions at the end of September 1995 to 6.5 full-time equivalents at present (this has varied from 5.5 to 7.5 during this fiscal year.) Especially hard hit was the verification group which had consisted of 6 contractor positions in FY '95 and currently is one full-time verification position, but during the beginning of the FY '96 there were insufficient staff to staff it full-time.

In addition to funding and staffing cut-backs, the following transitions were concurrently taking place:

- o Transition of the corrective action coordinator position since the end of last September (twice),
- o Transition from YMP-USGS internal corrective action system to the Project-wide deficiency system prescribed by APs 16.1Q, 16.2Q, and 16.3Q (originally scheduled for completion September 1995 but extended to December 1995),
- o Transition of Lawrence Berkeley Laboratory from YMP-USGS sub-tier organization to the M&O,
- o Transition of University of Nevada Reno Seismological Laboratory from YMP-USGS sub-tier organization to M&O.

Additionally, the YMP-USGS staff was cut back severely (besides the QA Office) resulting in the shift of personnel responsibilities for some deficiency documents and a consequent loss of continuity in processing specific deficiencies. This change is considered a contributing cause, not the prime reason for the backlog of processing

Page 3 of 4

Stop Work Order	
NO. YMOAD-96-CC	<u>05</u>
PAGE OF	

Corrective Action Request

CAR/SWO CONTINUATION PAGE

deficiency documents.

Another contributing cause is that DOE issued deficiencies have received higher priority in attention.

Block 17: Actions to Preclude Recurrence:

Until the backlog is cleared up, one YMP-USGS QA Office FTE position will be dedicated to corrective action. Secretarial support will be in addition to this position. (Please note that the coordinator position is vacant as of next Monday necessitating another transition. Until the vacancy is filled, the necessary actions will be handled on a part-time basis by existing YMP-USGS QA Office staff.) In addition, the role of Quality Assurance Representative will be more widely distributed among the rest of the QA Office staff.

Most of the transitions that have taken place since last September have been out of the control of YMP-USGS. To better prepare for the possibility of additional transitions, a higher priority will be placed on keeping the CARLOG up-to-date (within a week of any change); this will enable the YMP-USGS QA Office to continually adjust priorities appropriately, if necessary.

The QA Manager will increase awareness of the responsible managers for overdue responses to deficiencies or overdue corrective action.

Block 18: Response by:

Rev Thomas H. Chaney,

YMP-USGS Quality Assurance Manager

Robert W. Craig,

Chief, Yucca Mountain Project Branch

Block 19: Corrective Action Due Date:

June 14, 1996 (to bring the CARLOG up-to-date and keep it updated within one week of changes and to initiate weekly meetings)

Date: 5-10-96

Page 4 of 4