

Department of Energy

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

SEP 2 6 1995

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 VERIFICATION INFORMATION, VERIFICATION OF CORRECTIVE ACTION, AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-95-042 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-95-09 OF U.S. GEOLOGICAL SURVEY (SCPB: N/A)

The YMQAD staff has evaluated the verification information (Chaney to Spence, dated 8/31/95), verified the corrective action to CAR YM-95-042, and determined the results to be satisfactory, as stated in the enclosed CAR. 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 794-7913.

YMQAD:RBC-4679

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosure: CAR YM-95-042

cc w/encl: J. G. Spraul / 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 D. G. Horton, OQA (RW-3) NV W. E. Barnes, YMSCO, NV cc w/o encl:

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

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· · ·	RADIOACTIVE U.S. DEPAR	E OF CIVILIAN WASTE MANAGEME TMENT OF ENERGY IINGTON, D.C.	INT	8. CAR NO. <u>YM-95-042</u> PAGE 1 OF 2 QA
	CORRECTIN	/E ACTION REQUEST		
1. CONTROLLING DOCUMENT:				REPORT NO.:
QARD, DOE/RW-0333P 3. RESPONSIBLE ORGANIZATION:	r	4. DISCUSSED WITH:	YM-ARP-95	-09
U. S. Geological Survey (USGS)		4. DISCUSSED WITH: L. McInroy		
 5. REQUIREMENT: 1. Paragraph 16.2.1: A condition ad not met. 2. Paragraph 16.2.5: The Quality As condition adverse to quality and close 3. Paragraph 16.2.6B: Reports of no adverse quality trends and to help ider 	ssurance organization s the related corrective a nconformances and sig	hall verify implementation of a time a time at the second se	f corrective act nely manner wi	tions taken for all reported hen actions are complete.
 Contrary to the cited requirements: There is no criteria to evaluate poly Quality Deficiency Reports (QDR), 9: However, these QDR closures were be documentation. QDRs were being closed prior to a 3. The Quarterly Quality Assurance 1 organization, or SCP activity number. additional YMQAD CARs citing the additional YMQAD CARs citing the and identified this as a trend. No QDI 	5002 and 95014, were d ased solely on statemen completion of correctiv Management Report is The sort on USGS-QI QARD for lack of techr e constituted a trend in 95 had these USGS QE	closed on the basis that the ac ats from the respective Princi e actions. based on sorting of deficience MP-5.01 had two QDRs for lance nical procedures/Scientific Na accordance with the USGS p DRs on QMP-2.08, "Non Fed	ctivities were n pal Investigato by documents a ack of technica otebooks, that procedure. eral Contracto	o longer quality related. rs and no other according to procedure, al procedures; there were two were not included. These
9. Does a Significant Condition Adverse to Quality exist? If Yes, Check One: A B C C 11. Required Actions: A Remedial		a stop work condition exis []No; If Yes, Attach cop heck One: A B ency Preclude Recurrer	y of SWO C	13. Response Due Date: 20 Working Days From Issuance t Cause Determination
12. Recommended Actions:				
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7. Initiator Joms Blaylock James Blaylock 15. Response Accepted OAR Jame Blayloch 17. Amended Response Accepted OAR Jame Blayloch 19. Corrective Actions Verified	Date 5/16/ 640-27475 Date 5/22/9 9/22/95 Date 9/22/95	- 16. Response Accept	Ind	Date 5.17.95 Date 6-30-95 Date 9/26/95
QAR Jam Blaylik	Date	LOADD YC	FUCIOSI	Date 9/26/95 REV /06/27/94

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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C. 8. CAR NO. **YH-95-042** PAGE 2 OF 2 QA

CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

Block 5 continued

4. Paragraph 16.2.6.D: Identified adverse trends shall be reported to the organization responsible for corrective action.

	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.	• CAR NO. <u>YM-95-042</u> PAGE: <u>1</u> OF <u>4</u> QA
,	CORRECTIVE ACTION REQUEST (Continuation Pa	ge)
1. C	DRRECTIVE ACTION RESPONSE FOR CAR No. YM-95-042	
<u>IT</u>	<u>EM #1</u>	
Α.	<u>REMEDIAL ACTION</u> : QDRs 95004 and 95014 were closed on the I initially been incorrectly identified as quality-affecting. The concern ex the re-classification to non-quality affecting was not sufficiently docume is to amend the closed QDRs to add supplemental justification that related.	pressed in this CAR is that ented. The remedial action
B.	EXTENT OF THE DEFICIENCY: Only a very small number of QDRs hav of improper quality classification. However, to ensure that all are ide deficiency database will be reviewed for deficiencies closed under sim identified will be evaluated and, if necessary, amended as noted under	ntified and evaluated, the illar circumstances. Those
C.	ROOT CAUSE DETERMINATION: The criteria in QMP-4.01 for deterr quality related is not clear.	mining if a procurement is
D.	<u>CORRECTIVE ACTION TO PRECLUDE RECURRENCE</u> : QMP-4.01, Revisit detailed criteria for determining if a procurement is quality related.	on 7 has incorporated more
II	<u>M #2</u>	
Α.	<u>REMEDIAL ACTION</u> : QDR 95059 was closed prior to the completion of 1 QDR was closed on the basis that the identical Corrective Action (to re covered under CAR YM-94-050, and that tracking CAR YM-94-05 adequately monitor the corrective action. The Remedial Action is to fin -4.01, -4.02, and -7.04 in a timely manner, and review the QDR data reference to CAR YM-95-050 has been properly resolved.	view various QMPs) were 0 through closure would alize the revision of QMPs
В.	EXTENT OF THE DEFICIENCY: It is not believed that additional QDRs however, the data base of deficiencies will be reviewed for deficiencies circumstances. Those identified will be evaluated and, if necessary, Remedial Action.	icies closed under similar
C.	<u>ROOT CAUSE DETERMINATION</u> : The condition occurred due to a fair QARD requirements, and due to the view that the approach was re eliminated needless duplicate tracking effort.	

Exhibit OAP-16.1.2 Ilm00330.005 1.115/6< Ala, as the Sheme

REV. 2/14/94

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	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.
	CORRECTIVE ACTION REQUEST (Continuation Page)
D.	<u>CORRECTIVE ACTION TO PRECLUDE RECURRENCE</u> : The Verification Staff received training on APs - 16.1Q and -16.2Q procedures on 06/12/95. As of July 3 of this year, all deficiencies will be processed in accordance with APs - 16.1Q and 16.2Q. No further Corrective Action is required.
11	EM #3
	<u>REMEDIAL ACTION</u> : The Quarterly Quality Assurance Management Information Report will be amended to add QMP-5.05, R4 as a fifth QMP that experienced three or more deficiencies during the second quarter of FY95. CARs YM-95-022 and YM-94-043 were deficiencies written against SCP Activities 8.3.1.2.2.9, Unsaturated Zone Modeling and 8.3.1.17.4.12, Tectonic Modeling, respectively. Modeling activities are controlled by the YMP-USGS via scientific notebooks. Scientific notebook requirements are implemented through QMP-5.05.
В.	EXTENT OF THE DEFICIENCY: The FY95 first quarter Quality Assurance Management Information Report will be reviewed and amended, if required, to ensure that YMQAD CARs were properly incorporated into the trend analysis.
C.	ROOT CAUSE DETERMINATION: The criteria used by the YMP-USGS in identifying trends is to first sort the deficiencies by YMP-USGS Quality Management Procedure violations, i.e., QMP-4.01, QMP-5.01, etc. Whenever there are three or more deficiencies identifying the same QMP it is considered a potential trend and examined in detail to see if the deficiencies document the same procedural requirement violation. If they do, a trend is identified, and <u>if</u> the procedural requirement being violated corresponds to a QARD requirement it is also identified. For this reason the YMQAD CARs cited were not linked to a QMP-5.01 violation and were more appropriately associated with a violation of QMP-5.05 controlling the use of scientific notebooks. This approach was taken because not all YMP-USGS procedural requirements correspond to a QARD requirement and trending at the participant level was used by YMP-USGS management to assess the effectiveness of QMP implementation.
D.	<u>CORRECTIVE ACTION TO PRECLUPE RECURRENCE</u> : No specific corrective actions required; trend analysis to transition to the OCRWM OQA at the end of FY95.
ITE	<u>M #4</u>

A. <u>REMEDIAL ACTION</u>: No remedial action required. The Quarterly Quality Assurance Management Information Report for the second quarter of FY95, January through March, 1995 states: "In addition to the commitments in the QDRs listed above, the YMP-USGS QA Office will compile an updated list of augmented staff to help ensure that personnel qualifications for contractor personnel are documented as required." This <u>proposed action</u> is in addition to the already accepted planned actions identified in the QDRs cited. The YMP-USGS programmatic requirement to initiate a unique

	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGE U.S. DEPARTMENT OF ENER WASHINGTON, D.C.	
*	CORRECTIVE ACTION REQUEST (Contin	nuation Page)
	as a result of an identified trend is implemented " sidered adequate as corrective manners." (See QMP-16	
nece as d plan	ENT OF THE DEFICIENCY: Investigative actions are no essity for additional actions and/or issuance of a QDR is escribed in Para. 5.3 of QMP-16.03, R3. For the tra- ned in the cited QDRs were considered adequate and the cilitate the QA Office in managing personnel qualifications.	s at the discretion of the QA Manage end identified, the corrective actions he updated list was an additional too
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	T CAUSE DETERMINATION: No root cause determination of the secured.	ion required. Implementation of QMP
16.0 D. <u>COR</u> the (ident		prrective actions required. As written Report for the second quarter of FY95 ualifications and proposes additiona
D. <u>COR</u> the (ident man 2. For each	3, R3 was properly executed. <u>RECTIVE ACTION TO PRECLUDE RECURRENCE</u> : No co Quarterly Quality Assurance Management Information R tifies a trend associated with contractor personnel qu	prrective actions required. As written Report for the second quarter of FY95 ualifications and proposes additional ne cited QDRs. ed responsibility for completion of the
D. <u>COR</u> the (ident mana 2. For each action ar	3, R3 was properly executed. <u>RECTIVE ACTION TO PRECLUDE RECURRENCE</u> : No co Quarterly Quality Assurance Management Information R tifies a trend associated with contractor personnel qua agement actions in addition to those committed to in the action above, identify the name of the individual assignment	prrective actions required. As written Report for the second quarter of FY95 ualifications and proposes additiona ne cited QDRs. ed responsibility for completion of the
D. <u>COR</u> the (ident mana 2. For each action ar	 N3, R3 was properly executed. RECTIVE ACTION TO PRECLUDE RECURRENCE: No conductor of the contractor personnel of the strend associated with contractor personnel of agement actions in addition to those committed to in the action above, identify the name of the individual assigned the anticipated (or actual, if complete) completion data A. L.L. McInroy B. L.L. McInroy D. T.H. Chaney (Issue QMP-4.01, R7) 	orrective actions required. As written Report for the second quarter of FY95 ualifications and proposes additiona ne cited QDRs. ed responsibility for completion of the ate. 07/30/95 08/15/95 07/15/95
 16.0 D. <u>COR</u> the (ident mana) 2. For each action ar <u>ITEM #1</u> 	 N3, R3 was properly executed. <u>RECTIVE ACTION TO PRECLUDE RECURRENCE</u>: No conductor of the second secon	orrective actions required. As written Report for the second quarter of FY95 ualifications and proposes additiona ne cited QDRs. ed responsibility for completion of the ate. 07/30/95 08/15/95 07/15/95
16.0 D. <u>COR</u> the (ident man: 2. For each action ar <u>ITEM #1</u> <u>(TEM #2</u>	 N3, R3 was properly executed. RECTIVE ACTION TO PRECLUDE RECURRENCE: No conductor of Quarterly Quality Assurance Management Information R tifies a trend associated with contractor personnel quagement actions in addition to those committed to in the action above, identify the name of the individual assigned the anticipated (or actual, if complete) completion dates and the anticipated (or actual, if complete) completion dates and the anticipated (or actual, if complete) completion dates and the anticipated (or actual, if complete) completion dates and the anticipated (or actual, if complete) completion dates and the anticipated (or actual, if complete) completion dates and the anticipated (receive QMP-4.01, R7) A. L.L. McInroy D. T.H. Chaney (Revise QMPs -4.01, -4.02, -7.04) B. L.L. McInroy A. R. Scavuzzo B. R. Scavuzzo 	orrective actions required. As written Report for the second quarter of FY95 ualifications and proposes additiona ne cited QDRs. ed responsibility for completion of the ate. 07/30/95 08/15/95 07/15/95 08/15/95 07/21/95

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. RESPONSE APPROVED:				CORRECTIVE ACTION REQUEST (Continuation Page)							
Martha H. Mu Thomas H. Chaney YMP-USGS Quality Assur		<u>6-15-95</u> Date									
Larry R. Hayes Chief, Yucca Mountain Pr	roject Branch	<u>6/15/95</u> Date									
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VERIFICATION OF CORRECTIVE ACTION FOR CAR YM-95-042

The amended response is accepted and CAR YM-95-042 is closed. The amended response, dated August 31, 1995, clarifies the basis for determining whether similar deficiencies constitute a trend. Although the QAR does not agree with the USGS position, this issue is moot since the OQA has assumed responsibility for performing a project-wide trend program. Likewise, the trending reports in question are of sufficient age that requiring any additional action, beyond that already accomplished, is not warranted.

9/22/95 Date

James Blaylock Ø OAR