



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

APR 20 1995

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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-95-020 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-95-04 OF U.S. GEOLOGICAL SURVEY (SCPb: N/A)

The YMQAD staff has verified the corrective action to CAR YM-95-020 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 Donald J. Harris at 794-7356.


Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-2984

Enclosure:
CAR YM-95-020

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, YMQAD/QATSS, Las Vegas, NV

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

8 CAR NO.: YM-95-20
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

1 Controlling Document QARD DOE/RW-0333P, Revision 1		2 Related Report No. YM-ARP-95-04	
3 Responsible Organization USGS		4 Discussed With T. Chaney/A. Lykins	
5 Requirement: QARD Section 4.0, Procurement Document Control, Subsection 4.2.1B2 states in part: Specific documents (such as procedures or instructions) that describe the technical requirements of items or services to be furnished shall be specified. The revision level or change status of these documents shall be specified.			
6 Adverse Condition: Contrary to the cited requirement, the Memorandum of Agreements (MOAs) between Lawrence Berkeley Laboratory and the Water Resources Division, for work performed in support of USGS participation in the YMP (MOAs dated 2/2/93 and 5/23/94) fail to identify specific technical procedures of the SCP 8.3.1.4.2.2.5 and SCP 8.3.1.2.2.8 activities identified in the MOAs.			
9 Does a Significant Condition Adverse to Quality exist? Yes <u>No</u> X If Yes, Check One: ☐ A ☐ B ☐ C ☐ D ☐ E		10 Does a stop work condition exist? Yes <u>No</u> X; If Yes - Attach copy of SWO If Yes, Check One: ☐ A ☐ B ☐ C	
		13 Response Due Date: 20 Working Days from Issuance	
11 Required Actions: ☒ Remedial ☒ Extent of Deficiency ☒ Preclude Recurrence ☐ Root Cause Determination			
12 Recommended Actions: 1) Revise recently issued MOAs and incorporate technical procedures. 2) Revise remaining MOAs as they become due and incorporate the technical procedures as appropriate.			
7 Initiator D. J. Harris <i>D. J. Harris</i> 12-20-94		14 Issuance Approved by: QADD <i>[Signature]</i> for Date 12-23-94	
15 Response Accepted QAR <i>[Signature]</i> Date 2/1/95		16 Response Accepted QADD <i>[Signature]</i> for Date 2-3-95	
17 Amended Response Accepted QAR _____ Date _____		18 Amended Response Accepted QADD _____ Date _____	
19 Corrective Actions Verified QAR <i>[Signature]</i> Date 4/18/95		20 Closure Approved by: QADD <i>[Signature]</i> for Date 4-19-95	

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CAR NO. YM-95-20

PAGE: 1 OF 1

QA

CORRECTIVE ACTION REQUEST (Continuation Page)

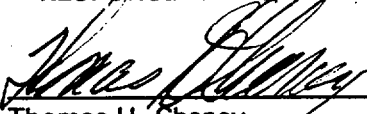
1. CORRECTIVE ACTION RESPONSE FOR CAR No. YM-95-20

- A. **REMEDIAL ACTION:** Memorandum of Agreement (MOA) between Lawrence Berkeley Laboratory and the Water Resources Division (MOA dated 05/23/94) will be revised to; 1) clarify that it superseded the MOA dated 2/2/93, and 2) update the activities to be covered under the MOA, and 3) for each activity/study, specify the technical procedure (if any) to be employed or state that a scientific notebook will be used in lieu of the technical procedure.
- B. **EXTENT OF THE DEFICIENCY:** Approved FY95 MOAs will be reviewed to ensure that they identify specific technical procedures required to support the activities as identified in the MOA, and revised if necessary.
- C. **ROOT CAUSE DETERMINATION:** Not required.
- D. **CORRECTIVE ACTION TO PRECLUDE RECURRENCE:** YMP-USGS-QMP-4.02, will be reviewed and revised, as appropriate, to ensure that participant agreements include or reference the applicable technical procedures that are necessary to perform the scientific investigations described in the MOA.

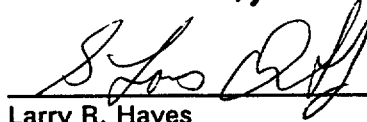
2. For each action above, identify the name of the individual assigned responsibility for completion of the action and the anticipated (or actual, if complete) completion date.

- 1.A. M.H. Mustard, YMP-USGS 02/24/95
- 1.B. A.E. Lykins, YMP-USGS Quality Assurance Specialist 02/24/95
R. Scavuzzo, Quality Assurance Specialist
- 1.D. T.H. Chaney, YMP-USGS Quality Assurance Manager 03/24/95
J. L. Henderson, YMPB Administrative Officer

RESPONSE APPROVED:


Thomas H. Chaney
YMP-USGS Quality Assurance Manager

1/25/95
Date


Larry R. Hayes
Chief, Yucca Mountain Project Branch

1/25/95
Date

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8 CAR NO. _____
PAGE _____ OF _____
QA

CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

VERIFICATION STATEMENT FOR CAR YM-95-020

BLOCK 19 - Corrective Action Verification

REMEDIAL ACTION -

IN REFERENCE TO....

KTM
4-18-95
a. MOA's between Lawrence Berkeley Laboratory and Water Resources Division of USGS for work performed in support of USGS participation in the YMP for scientific work. The MOA's were reviewed and Supplements 1 and 2 were issued for MOA25A and Supplement 1 for MOA51 which specify the technical procedures.

b. Verified by review that MOA's 55, 56, 57 and 66 included the technical procedures (as appropriate) in Attachment 1.

MOA 55 - included GP-01, Rev. 2 and GP-52, Rev. 0
MOA 56 - included GP-01, Rev. 2 and GP-52, Rev. 0
MOA 57 - included GCP-03, Rev. 3
MOA 66 - included GP-12, Rev. 1

Verified MOA's 49, 52, 59, 61 and 63 did not require the inclusion of technical procedures in the MOA's.

EXTENT OF THE DEFICIENCY -

- a. The MOA's in effect in February were reviewed for impact in accordance with the CAR (MOA's 25, 19, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 62, 63 and 66) of the MOA's 25, 50, 51, 55, 56, 57 and 66 were changed by supplements issued specifying the appropriate technical procedures.
- b. USGS issued a USGS QDR-95038-2 which documents MOA's issued after February requiring reviews to incorporate technical procedures specific to the activity. These MOA's have a QA Review Sheet attached to them, notifying the requestor's that a review was required for MOA's 61, 67 thru 71, 83, 84, 86, 87 and 88.

CORRECTIVE ACTION TO PRECLUDE RECURRENCE - Verified YMP-USGS-QMP-4.02, Rev. 6, Control of Agreements, Attachment I, Subsection F, Technical Requirements specified that technical procedures or instructions are required to be specified.

As a result of this verification, CAR YM-95-020 is considered closed.

Donald J. Harris
Donald J. Harris, QAR

4/18/95
Date