



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

MAY 18 1995

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

ISSUANCE OF CORRECTIVE ACTION REQUEST (CAR) YM-95-041 AND CAR YM-95-042 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-95-09 OF THE U.S. GEOLOGICAL SURVEY (SCPB: N/A)

Enclosed are CARs YM-95-041 and YM-95-042 generated as a result of YMQAD Audit YM-ARP-95-09.

Please identify the corrective actions to be taken and implemented to correct the cited deficiencies. CAR Continuation Sheets and instructions for completion have been provided. Send the originals of your responses to Deborah Sult, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109. Responses to the CARs are due 20 working days from the date of this letter. Extensions to due dates must be requested in writing, with appropriate justification, prior to the due dates.

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-3315

Enclosures:

1. CARs YM-95-041 and YM-95-042
2. CAR Continuation Sheets and Instructions
3. Guidelines for Root Cause Determination

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cc w/encl 1:

~~U. G. Spraul~~, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
T. L. Badredine, M&O, Las Vegas, NV
T. H. Chaney, USGS, Denver, CO
R. W. Craig, USGS, Las Vegas, NV
D. D. Porter, USGS/SAIC, Golden, CO
D. G. Horton, OQA (RW-3) NV
W. E. Barnes, YMSCO, NV

cc w/o encls:

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

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

8. CAR NO. **YM-95-041**
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QA

CORRECTIVE ACTION REQUEST

| | |
|---|---|
| 1. CONTROLLING DOCUMENT: QARD, DOE/RW-0333P, Revision 2 | 2. RELATED REPORT NO.: YM-ARP-95-09 |
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| 3. RESPONSIBLE ORGANIZATION: U.S. Geological Survey | 4. DISCUSSED WITH: T. Chaney, B. Parks |
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5. REQUIREMENT:
SECTION 4.0, "Procurement Document Control," Paragraph 4.2.1 C.1, states in part, "a requirement for the supplier to have a documented Quality Assurance Program that implements applicable QARD requirements prior to the initiation of work."

6. ADVERSE CONDITION:
Contrary to the cited requirement:

- Geometrics Incorporated performed calibration of magnetometer for USGS with past due Annual performance evaluation and the Triennial audit. The calibrations were performed and witnessed by USGS on surveillance 95002 SV (11/2/94) and 95027 SV (3/15/95) for Purchase Orders (PO) 1434 CR-94-PO-0331, 1434 CR-95-SA-0930, and 1434 CR-95-SA-0958.
- PCI Sales (unapproved supplier) performed calibration of MICROMETER Model MW-506 Flowmeter for USGS with USGS witnessing of the calibration on surveillance 95035 SV (4/13/95) for PO 1434 CR-95-SA-1048.

| | | |
|--|--|--|
| 9. Does a Significant Condition Adverse to Quality exist? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E | 10. Does a stop work condition exist? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No; If Yes, Attach copy of SWO If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> 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:

| | |
|--|--|
| 7. Initiator Donald J. Harris <i>Donald J. Harris</i> 5-15-95 | 14. Issuance Approved by <i>[Signature]</i> Date 5-17-95 |
| 15. Response Accepted QAR _____ Date _____ | 16. Response Accepted QADD _____ Date _____ |
| 17. Amended Response Accepted QAR _____ Date _____ | 18. Amended Response Accepted QADD _____ Date _____ |
| 19. Corrective Actions Verified QAR _____ Date _____ | 20. Closure Approved by QADD _____ Date _____ |

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B. CAR NO. YM-95-042
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CORRECTIVE ACTION REQUEST

1. CONTROLLING DOCUMENT:
QARD, DOE/RW-0333P

2. RELATED REPORT NO.:
YM-ARP-95-09

3. RESPONSIBLE ORGANIZATION:
U. S. Geological Survey (USGS)

4. DISCUSSED WITH:
L. McInroy

5. REQUIREMENT:

1. Paragraph 16.2.1: A condition adverse to quality shall be identified when a QARD or an implementing document requirement is not met.

2. Paragraph 16.2.5: The Quality Assurance organization shall verify implementation of corrective actions taken for all reported condition adverse to quality and close the related corrective action documentation in a timely manner when actions are complete.

3. Paragraph 16.2.6B: Reports of nonconformances and significant conditions adverse to quality shall be evaluated to identify adverse quality trends and to help identify root causes.

6. ADVERSE CONDITION:
Contrary to the cited requirements:

1. There is no criteria to evaluate potential conditions adverse to quality relative to quality or non-quality activities. Two USGS Quality Deficiency Reports (QDR), 95002 and 95014, were closed on the basis that the activities were no longer quality related. However, these QDR closures were based solely on statements from the respective Principal Investigators and no other documentation.

2. QDRs were being closed prior to completion of corrective actions.

3. The Quarterly Quality Assurance Management Report is based on sorting of deficiency documents according to procedure, organization, or SCP activity number. The sort on USGS-QMP-5.01 had two QDRs for lack of technical procedures; there were two additional YMQAD CARs citing the QARD for lack of technical procedures/Scientific Notebooks, that were not included. These four deficiency documents would have constituted a trend in accordance with the USGS procedure.

4. The report for January - March 1995 had these USGS QDRs on QMP-2.08, "Non Federal Contractor Personnel Qualifications," and identified this as a trend. No QDR was initiated, nor any discussion of any proposed action.

9. Does a Significant Condition Adverse to Quality exist? Yes No
If Yes, Check One: A B C D E

10. Does a stop work condition exist? Yes No; 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:

7. Initiator James Blaylock *James Blaylock* 5/16/95

14. Issuance Approved by *[Signature]* QADD *[Signature]* Date 5-17-95

15. Response Accepted QAR Date

16. Response Accepted QADD Date

17. Amended Response Accepted QAR Date

18. Amended Response Accepted QADD Date

19. Corrective Actions Verified QAR Date

20. Closure Approved by QADD Date

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QA

CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

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