



Department of Energy

Washington, DC 20585

DEC 02 1996

R. W. Craig, Technical Project Officer
for Yucca Mountain Site
Characterization Project
U.S. Geological Survey
1261 Town Center Drive
Building 4, Room 423, M/S 423
Las Vegas, NV 89134

ISSUANCE OF DR YM-97-D-008 AND PR YM-97-P-001 RESULTING FROM OQA AUDIT USGS-ARP-97-03 OF U. S. BUREAU OF RECLAMATION

Enclosed are Deficiency Report YM-97-D-008 and Performance Report YM-97-P-001
generated as a result of Office of Quality Assurance Audit USGS-ARP-97-03.

Please provide a response to these deficiencies that meets the applicable requirements of
Administrative Procedure 16.1Q, Performance/Deficiency Reporting. Send the originals of your
responses to Deborah Sult, OQA/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada
89193-8608. Responses to these deficiencies 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 Mario R. Diaz at (702) 794-1489 or
Richard L. Weeks at (702) 794-1431.

Donald G. Horton, Director
Office of Quality Assurance

OQA:MRD-0439

Enclosure:
DR YM-97-D-008 and
PR YM-97-P-001

9612100012 961202
PDR WASTE
WM-11 PDR



DEC 02 1996

R. W. Craig

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cc w/encl:

- J. G. Spraul, NRC, Washington, DC
- S. W. Zimmerman, NWPO, Carson City, NV
- T. H. Chaney, USGS, Denver, CO
- Records Processing Center

cc w/o encl:

- W. L. Belke, NRC, Las Vegas, NV
- R. L. Weeks, OQA/QATSS, Las Vegas, NV
- D. G. Sult, OQA/QATSS, Las Vegas, NV

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Recip: Wmss/PAHL

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

ORIGINAL
THIS IS A PENDING REPORT

Deficiency Report

NO. YM-97-D-008

PAGE 1 OF 2

QA: L

PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

Quality Assurance Requirements Description (QARD),
DOE/RW-0333P, Revision 5, Yucca Mountain Site
Characterization Project (YMP)-U.S. Geological Survey
(USGS)-Quality Management Procedure (QMP)-3.04,
Revision 7

2 Related Report No.

USGS-ARP-97-03

3 Responsible Organization:

USGS/U.S. Bureau of Reclamation

4 Discussed With:

Bruce Parks and Tom Chaney

5 Requirement/Measurement Criteria:

QARD, Revision 5, Section 6.0, Paragraph 6.2.3, "Reviewing Documents," states:

"Documents shall be reviewed for adequacy, correctness, and completeness, in accordance with the requirements of Subsection 2.2.10, "Document Review."

YMP-USGS-QMP-3.04, Revision 7, Paragraph 5.2.2.1, requires reviewers to consider, at a minimum, "Technical correctness: Is the manuscript technically sound? Are all computations correct? Are assumptions reasonable and clearly stated? Are interpretations of data supported by the data as presented or referenced in the manuscript?"

6 Description of Condition:

Contrary to the above requirements, the review of the document, "Geology of the North Ramp, Stations 4+00 to 28+00, Exploratory Studies Facility, Yucca Mountain Project, Yucca Mountain Nevada," failed to detect a statistical error.

7 Initiator

Kenneth T. McFall

Date 11/26/96

9 Is condition an isolated occurrence?

Yes No Unknown; Must be Yes if PR

10 Recommended Action: (Not required for PR)

Perform remedial action to correct the error. Perform impact analysis

11 QA Review:

QAR Kenneth T. McFall

Date 11/26/96

12 Response Due Date

20 working days from issuance

13 Affected Organization QA manager issuance Approval: (QAR for PR)

Printed Name DONALD G. HEARD

Signature

Date 12/2/96

22 Corrective Action Verified

QAR

Date

23 Closure Approved by: (N/A for PR)

AOQAM

Date

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

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PR/DR NO. YM-97-D-008

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QA: L

PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR)

Required

Yes

No

17 Action to Preclude Recurrence: (Not required for PR)

Required

Yes

No

18 Corrective Action Completion Due Date:

19 Response by:

Initial

Amended

Date

Phone

20 Response Accepted

QAR

Date

21 Response Accepted (N/A for PR):

AOQAM

Date

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WASHINGTON, D.C.

PR/DR NO. YM-97-P-001
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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR)

Required Yes No

17 Action to Preclude Recurrence: (Not required for PR)

Required Yes No

18 Corrective Action Completion Due Date:

19 Response by:
 Initial
 Amended Date Phone

20 Response Accepted

QAR Date

21 Response Accepted (NA for PR):

AOQAM Date