



Department of Energy
Washington, DC 20585

QA: L

APR 08 1997

R. W. Craig, Technical Project Officer
for Yucca Mountain Site
Characterization Project
U.S. Geological Survey
1261 Town Center Drive
Building 12, Room 1249, M/S 423
Las Vegas, NV 89134

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT
(DR) YM-97-D-008 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA)
AUDIT USGS-ARP-97-03 OF U.S. BUREAU OF RECLAMATION

The OQA staff has verified the corrective action to DR YM-97-D-008 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or
Kenneth T. McFall at (702) 794-5470.

R. W. Clark
Er Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-1338

Enclosure:
DR YM-97-D-008

cc w/encl:
J. O. Thoma, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
T. H. Chaney, USGS, Denver, CO

cc w/o encl:
W. L. Belke, NRC, Las Vegas, NV
K. T. McFall, OQA/QATSS, Las Vegas, NV
D. G. Sult, OQA/QATSS, Las Vegas, NV
R. W. Clark, DOE/OQA, Las Vegas, NV

NH 33 1/1
WM-11
1027

9704150130 970408
PDR WASTE
WM-11 PDR

150050

Reap: NMS/HUR



Printed with soy ink on recycled paper



ORIGINAL
THIS IS A PAGED REPORT

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

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 <i>Kenneth T. McFall</i> Date 11/26/96	9 Is condition an isolated occurrence? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 <i>Kenneth T. McFall</i> 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. HOEYD <i>Donald G. Hoeyd</i> Signature <i>Donald G. Hoeyd</i> Date 12/2/96	
--	--

22 Corrective Action Verified QAR Kenneth T. McFall <i>Kenneth T. McFall</i> Date 4/1/97	23 Closure Approved By: (N/A for PR) AOQAM <i>R.W. Oel</i> Date 4/1/97
---	---



United States Department of the Interior

U. S. GEOLOGICAL SURVEY
Box 25046 M.S. 421
Denver Federal Center
Denver, Colorado 80225

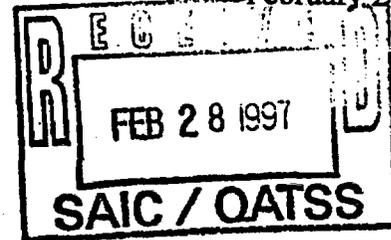
WBS#: 1.2.3.11

QA:L

February 27, 1997

IN REPLY REFER TO:

Donald G. Horton
Director, Office of Quality Assurance
U.S. Department of Energy
Office of Civilian Radioactive Waste Management
P.O. Box 98608
Las Vegas, NV 89193-8608



SUBJECT: Completion of Actions for Deficiency Report YM-97-D-008 Resulting from Office of Quality Assurance (OQA) Audit USGS-ARP-97-03 of the U.S. Bureau of Reclamation

All corrective actions per the subject deficiency have been completed and are ready for verification. A copy of the Correction Table of Contents submitted to the Reports Processing Center is enclosed for your information. Also enclosed is a copy of a memorandum to YMP-USGS Team Chiefs from the YMP-USGS QA Manager reminding them of the need to ensure that technical reviewers they select are properly qualified for the material they are reviewing.

If you have any questions or require further information, please contact Patricia Sheaffer at (303) 236-0516, extension 231.

Sincerely,

for Robert W. Craig, Chief,
Yucca Mountain Project Branch

RWC/PGS
Enclosure

Copies to: T.H. Chaney, USGS, Denver, CO
G.L. Ducret, USGS, Denver, CO
B. Parks, USGS, Denver, CO
M.C. Chornack, USGS, Denver, CO
S. Beason, USBR, Las Vegas, NV
D.J. Sinks, PWT, Denver, CO
P.G. Sheaffer, USGS/PWT, Denver, CO
A. Anderson, USGS, Denver, CO
D. Zesiger, USGS/M&O/TRW, Las Vegas, NV
D.G. Sult, YMQA/QATSS, Las Vegas, NV (originals)



United States Department of the Interior

U. S. GEOLOGICAL SURVEY
Box 25046 M.S. 425
Denver Federal Center
Denver, Colorado 80225

IN REPLY REFER TO:

INFORMATION ONLY
February 27, 1997

MEMORANDUM

TO: YMP-USGS Team Chiefs

FROM: *for* T.H. Chaney, YMP-USGS Quality Assurance Manager *Matthew H. Mustard*

SUBJECT: Selection of Technical Reviewers

REFERENCE: Deficiency Report YM-97-D-008: Errors Found in Technical Review of a Manuscript

This memorandum is to remind all Team Chiefs of the necessity of ensuring that the technical reviewers you select in cooperation with authors and investigators are properly qualified for the material they are reviewing. According to QMP-3.04, R7, technical reviewers are selected by the Team Chief "...on the basis of special knowledge or experience in the subject material...". In the case of the referenced deficiency the errors found during an DOE Office of Quality Assurance audit were a result of a reviewer being qualified and experienced in reviewing certain aspects of an extensive report but not for others. If necessary, you may need to assign additional reviewers to ensure that all technical aspects of the data or manuscript are adequately covered. Please inform your investigators of these requirements when concurring with choices of reviewers for their documents.

If you have questions regarding this memo, please contact me at 236-0516, ext. 299.

THC:PGS

Copy to: R. Craig, Las Vegas, NV
L. Ducret, Denver, CO
D. Sinks, Denver, CO
P. Sheaffer, Denver, CO

Correction to a Record Package
YMP-USGS

Package Accession No. MOL.19970106.0494

Record Accession No. MOL.19970106.0496

Action: Replace pages of the referenced record with the enclosed corrected pages and add this Table of Contents to the referenced record package. This page replacement is required as part of the approved remedial actions cited in DOE Deficiency Report YM-97-D-008 resulting from OQA Audit USGS-ARP-97-03 of the U.S. Bureau of Reclamation.

WBS:1.2.3.2.2.1.2

SCP:8.3.1.4.2.2.4

DTN:GS960908314224.020

QA:L

Page 1 of 1

Correction Table of Contents
for
YMP/USGS Report Records Package

TITLE: Geology of the North Ramp - Stations 4+00 to 28+00, Exploratory Studies Facility, Yucca Mountain Project, Yucca Mountain, Nevada (Analysis Report)

Number
of Pages _____ Record Title _____

 1 Correction Table of Contents

 21 Replacement Pages for Analysis Report - RE: DOE Deficiency Report YM-97-D-008

 22 Total Pages in this Package

Authenticated by: _____

Signature

Patricia C. Sheaffer

Date

2/26/97



IN REPLY REFER TO:

United States Department of the Interior

U. S. GEOLOGICAL SURVEY

Box 25046 M.S. _____

Denver Federal Center

Denver, Colorado 80225

INFORMATION ONLY

February 27, 1997

MEMORANDUM

TO: YMP-USGS Team Chiefs

FROM: *for* T.H. Chaney, YMP-USGS Quality Assurance Manager *Matthew H. Mustard*

SUBJECT: Selection of Technical Reviewers

REFERENCE: Deficiency Report YM-97-D-008: Errors Found in Technical Review of a Manuscript

This memorandum is to remind all Team Chiefs of the necessity of ensuring that the technical reviewers you select in cooperation with authors and investigators are properly qualified for the material they are reviewing. According to QMP-3.04, R7, technical reviewers are selected by the Team Chief "...on the basis of special knowledge or experience in the subject material...". In the case of the referenced deficiency the errors found during an DOE Office of Quality Assurance audit were a result of a reviewer being qualified and experienced in reviewing certain aspects of an extensive report but not for others. If necessary, you may need to assign additional reviewers to ensure that all technical aspects of the data or manuscript are adequately covered. Please inform your investigators of these requirements when concurring with choices of reviewers for their documents.

If you have questions regarding this memo, please contact me at 236-0516, ext. 299.

THC:PGS

Copy to: R. Craig, Las Vegas, NV
L. Ducret, Denver, CO
D. Sinks, Denver, CO
P. Sheaffer, Denver, CO

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

8 Performance Report
 Deficiency Report

NO. YM-97-D-008

PAGE ____ OF ____

QA: L

PR/DR CONTINUATION PAGE

VERIFICATION OF CORRECTIVE ACTION FOR DEFICIENCY REPORT (DR) YM-97-D-008

On 4/1/97, it was verified that the correction to "Geology of the North Ramp-Stations 4+00 to 28+00, Exploratory Studies Facility, Yucca Mountain Project, Yucca Mountain, Nevada" was submitted to the Records Processing Center in Las Vegas on March 7, 1997. The corrected report meets with the satisfaction of the audit technical specialist and is now considered fully satisfactory. All required remedial and extent of condition commitments have been completed and this DR is considered closed.



Kenneth T. McFall, QAR

4/1/97
Date