



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

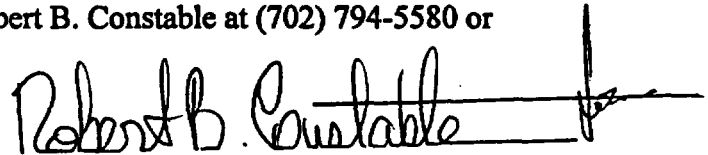
AUG 21 1996

Robert 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

**VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT
 (DR) YM-96-D-049, REVISION 1, RESULTING FROM YUCCA MOUNTAIN QUALITY
 ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARC-96-10 OF U.S. GEOLOGICAL
 SURVEY**

The YMQAD staff has verified the corrective action to DR YM-96-D-049, Revision 1, and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either Robert B. Constable at (702) 794-5580 or Mary R. McDaniel at (702) 794-1468.



Richard E. Spence, Director
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-2452

Enclosure:
 DR YM-96-D-049, Revision 1

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
 M. G. McDaniel, YMQAD/QATSS, Las Vegas, NV
 D. G. Sult, YMQAD/QATSS, Las Vegas, NV
 D. G. Horton, OQA, NV

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 WM-11 PDR

102.7

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YMP-5

add: JG Spraul

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

8 Performance Report
 Deficiency Report
NO. YMOAD-96-D049.R1
PAGE 1 OF 2
QA: L

PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
YAP-15.1Q, Revision 2, ICN 1

2 Related Report No.
YM-ARC-96-10

3 Responsible Organization:
U. S. Geological Survey

4 Discussed With:
W. Rodman

5 Requirement/Measurement Criteria:
YAP-15.1Q, Section 2.0. states: "The procedure also applies to the evaluation and disposition of the validity of the results for items and samples as well as work products when Measuring and Test Equipment is found to be out of calibration."

6 Description of Condition:
Contrary to the above, YMP-USGS-QMP-12.01, Revision 6, Modification 2, does not require a Nonconformance Report to be prepared for each instance where Measuring and Test Equipment (M&TE) is found to be out of calibration, but allows for an alternative method to be used when specified within a technical procedure of Scientific Notebook.

7 Initiator *Mary G. McDaniel*
Mary G. McDaniel Date *5/22/96*

9 QA Review
QAR *Mary G. McDaniel* Date *5/22/96*

10 Response Due Date
20 working days from issuance

11 QA Issuance Approval
Robert G. Constance for Date *5-31-96*
QAR (PR)/AOQAM (DR)

12 Remedial Actions:
All active technical procedures and scientific notebooks where an alternate reporting method was used will be reviewed. These procedures and notebooks will be revised to delete the allowance for an alternate reporting method.

13 Remedial Action Response By:
Robert W. Orica Date *6/19/96*

14 Remedial Action Due Date
July 9, 1996 Date

15 Remedial Action Response Acceptance
Mary G. McDaniel Date *10/25/96*

16 PR Verification/Closure
QAR *N/A* Date

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

8
DR NO. YMOAD-96-D049.R1
PAGE 2 OF 2
QA: L

MGM
5/22/96

DEFICIENCY REPORT

17 Recommended Actions:

Revise QMP-12.01 to comply with YAP-15.1Q.
Revise any technical procedures or Scientific Notebooks that provide for an alternative method of documenting and evaluating M&TE that is found to be out of calibration.

18 Investigative Actions:

A memo to all Principal Investigators and Implementation Specialists has been prepared to determine which procedures and notebooks allow for alternate reporting methods. (Att. 1)

19 Root Cause Determination:

N/A

20 Action to Preclude Recurrence:

YMP-USGS-QMP-12.01 Instrument Calibration will be modified to remove the allowance for alternate reporting methods. (Att. 2)

21 Response by:

See response ltr. Date 6/19/96

22 Corrective Action Completion Due Date:

July 9, 1996

23 Response Accepted

QAR *Michael* Date 6/25/96

24 Response Accepted

AOQAM *BC Bontable* for Date 7-1-96

25 Amended Response Accepted

QAR N/A Date

26 Amended Response Accepted

AOQAM N/A Date

27 Corrective Actions Verified

QAR *Michael* Date 8/5/96

28 Closure Approved by:

AOQAM *BC Bontable* for Date 8-20-96



United States Department of the Interior

GEOLOGICAL SURVEY⁴²⁵
 BOX 25046 M.S.
 DENVER FEDERAL CENTER
 DENVER, COLORADO 80225



QA: L

IN REPLY REFER TO:

May 8, 1996

MEMORANDUM

TO: DISTRIBUTION

 FROM: T. H. Chaney, Quality Assurance Manager
 Yucca Mountain Project

THC

 SUBJECT: Deficiency Report YMQAD-96-D049, *RI* *PS 5/8/96*

Deficiency Report YMQAD-96-D049 was written because USGS-QMP-12.01 allows for documentation of equipment problems without writing a Nonconformance Report as required by YAP-15.1Q. The QMP allowed for alternate methods of documenting deficiencies to be described in technical procedures or scientific notebooks. This allowance will be deleted from the QMP and all future deficient conditions involving measuring and test equipment will need to be documented by a Nonconformance Report.

Please review your active technical procedures and scientific notebooks to determine if they describe methods other than an NCR to report deficient equipment conditions. If so, notify Wayne Rodman (236-0516 x-302) by COB May 15, 1996.

WR/THC/aa

Copies to: A. Anderson

May 8, 1996

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PK YMQAD-96-2004, 1-1

DRAFTPage 1 of 1**YMP-USGS MODIFICATION TO
YMP-USGS QUALITY MANAGEMENT PROCEDURE**Modification Number: QMP-12.01, R6-M4Applies to YMP-USGS-QMP-12.01, Rev. 6QMP Title: INSTRUMENT CALIBRATION**REQUIRED MODIFICATIONS:**Para.Changed to

5.5.1

Change first sentence to read: "Upon detection of a deficient condition a Nonconformance Report (NCR) shall be prepared in accordance with YAP-15.1Q."

- 5.5.2

Change second sentence to read: "An NCR shall be initiated to document the deficient condition."

HISTORY OF CHANGES: *To be incorporated into the next revision of this procedure.***Revision/Mod No. Description of Revision**

QMP-12.01,R6-M4 Para. 5.5.1 and 5.5.2 changed in response to YMQAD-96-D049 to use NCRs as the only means of documenting deficient conditions.

Effective Date: _____

Supersedes Modification No. _____

YMP-USGS Quality Assurance Manager

Date

Chief, Yucca Mountain Project Branch

Date

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

Performance Report
 Deficiency Report

NO. YMOAD-96-D049

PAGE 1 OF 2

QA: L

PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
YAP-15.1Q, Revision 2, ICN 1

2 Related Report No.
YM-ARC-96-10

3 Responsible Organization:
U.S. Geological Survey

4 Discussed With:
W. Rodman

5 Requirement/Measurement Criteria:

YAP-15.1Q, Section 2.0. states: "The procedure also applies to the evaluation and disposition of the validity of results for items and samples as well as work products when Measuring and Test Equipment is found to be out of calibration."

6 Description of Condition:

Contrary to the above, YMP-USGS-QMP-12.01, Revision 6, Modification 2, does not require a Nonconformance Report to be prepared for each instance where Measuring and Test Equipment (M&TE) is found to be out of calibration, but allows for an alternative method to be used when specified within a technical procedure or Scientific Notebook.

7 Initiator

Marv G. McDaniel
Marv G. McDaniel

3/27/96
Date

9 QA Review

QAR *Michael A. K...*

Date *3/29/96*

10 Response Due Date

20 Working Days From Issuance

11 QA Issuance Approval

QAR (PRI/AOQAM (DRI) *RB Constante*

Date *4/10/96*

12 Remedial Actions:

All active technical procedures and scientific notebooks where an alternate reporting method was used will be reviewed and if any unresolved conditions are found, an NCR will be initiated. These procedures and notebooks will be revised to delete the allowance for an alternate reporting method. All remedial actions will be completed within 60 days.

13 Remedial Action Response By: *for R.W. Craig*

Charles J. Date *5/15/96*

14 Remedial Action Due Date

July 9, 1996

Date

15 Remedial Action Response Acceptance

QAR

N/A

Date

16 PR Verification/Closure

QAR

N/A

Date

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

DR NO. YMQAD-96-D049-5
PAGE 2 OF 27/3/96
QA: L [initials]

DEFICIENCY REPORT

17 Recommended Actions:

Revise QMP-12.01 to comply with YAP-15.1Q.
Revise any technical procedures or Scientific Notebooks that provide for an alternative method of documenting and evaluating M&TE that is found to be out of calibration.

Review all documentation where an alternative method was used and if unresolved, initiate an NCR to document the conditions.

18 Investigative Actions:

A memo to all Principal Investigators and Implementation Specialists has been prepared to determine which procedures and notebooks allow for alternate reporting methods. (Att. 1)

19 Root Cause Determination:

N/A

20 Action to Preclude Recurrence:

YMP-USGS-QMP-12.01 Instrument Calibration will be modified to remove the allowance for alternate reporting methods. (Att. 2)

<p>21 Response by: <i>[Signature]</i> for R. W. Craig Date 5/10/96</p>	<p>22 Corrective Action Completion Due Date: July 9, 1996</p>
<p>23 Response Accepted QAR <i>N/A</i> Date</p>	<p>24 Response Accepted AOQAM <i>N/A</i> Date</p>
<p>25 Amended Response Accepted QAR <i>N/A</i> Date</p>	<p>26 Amended Response Accepted AOQAM <i>N/A</i> Date</p>
<p>27 Corrective Actions Verified QAR <i>N/A</i> <i>MGM</i> 5/23/96 Date</p>	<p>28 Closure Approved by: <i>[Signature]</i> AOQAM <i>R. B. [Signature]</i> Date 5-3-96</p>



United States Department of the Interior

GEOLOGICAL SURVEY⁴²⁵
BOX 25046 M.S. _____
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

TAKE
PRIDE IN
AMERICA

QA: L

IN REPLY REFER TO:

May 8, 1996

MEMORANDUM

TO: DISTRIBUTION

FROM: T. H. Chaney, Quality Assurance Manager *THC*
Yucca Mountain Project

SUBJECT: Deficiency Report YMQAD-96-D049

Deficiency Report YMQAD-96-D049 was written because USGS-QMP-12.01 allows for documentation of equipment problems without writing a Nonconformance Report as required by YAP-15.1Q. The QMP allowed for alternate methods of documenting deficiencies to be described in technical procedures or scientific notebooks. This allowance will be deleted from the QMP and all future deficient conditions involving measuring and test equipment will need to be documented by a Nonconformance Report.

Please review your active technical procedures and scientific notebooks to determine if they describe methods other than an NCR to report deficient equipment conditions. If so, notify Wayne Rodman (236-0516 x-302) by COB May 15, 1996.

WR/THC/aa

Copies to: A. Anderson

May 8, 1996

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U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

8 Performance Report
 Deficiency Report

NO. YM-96-D-049

PAGE _____ OF _____

QA: L

PR/DR CONTINUATION PAGE

Verification of Corrective Actions for DO YMQAD-96-D049

Verified that HP-60, Revision 4, Modification 2, Methods For Monitoring Water Level Changes Using Pressure Transducers and Pressure Transmitters, effective 7-19-96 changed the procedure to require a nonconformance report be initiated for failed transducer.

Verified that QMP-12.01, Revision 6, Modification 4, Instrument Calibration was issued to require a nonconformance report be initiated as the only means of documenting M&TE deficient conditions.

This deficiency is considered closed.

Verified by:

Mary A. McDaniel
QAR

Date:

8/15/96

DRAFTPage 1 of 1**YMP-USGS MODIFICATION TO
YMP-USGS QUALITY MANAGEMENT PROCEDURE**Modification Number: QMP-12.01, R6-M4Applies to YMP-USGS-QMP-12.01, Rev. 6QMP Title: INSTRUMENT CALIBRATION**REQUIRED MODIFICATIONS:**

<u>Para.</u>	<u>Changed to</u>
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HISTORY OF CHANGES: *To be incorporated into the next revision of this procedure.***Revision/Mod No. Description of Revision**

QMP-12.01,R6-M4 Para. 5.5.1 and 5.5.2 changed in response to YMQAD-96-D049 to use NCRs as the only means of documenting deficient conditions.

Effective Date: _____

Supersedes Modification No. _____

YMP-USGS Quality Assurance Manager Date_____
Chief, Yucca Mountain Project Branch Date