



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

JUL 01 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

EVALUATION OF RESPONSE TO DEFICIENCY REPORT (DR) YMQAD-96-D049,  
REVISION 1, RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE  
DIVISION'S (YMQAD) AUDIT YM-ARC-96-10 OF U.S. GEOLOGICAL SURVEY  
(SCPB: N/A)

The YMQAD staff has evaluated the response to DR YMQAD-96-D049,  
Revision 1. The response has been determined to be satisfactory.  
Verification of completion of the corrective action will be  
performed after the effective date provided. Any extension to this  
date must be requested in writing, with appropriate justification,  
prior to that date. Please send a copy of extension requests to  
Deborah Sult, YMQAD/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas,  
Nevada 89193-8608.

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

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:RBC-2072

Enclosure:  
DR YMQAD-96-D049, 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

9607090144 960701  
PDR WASTE  
NM-11 PDR

NH03 1/1  
102.7  
WM-11

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

8  Performance Report  
 Deficiency Report  
NO. YMQAD-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. McDanel*  
Mary G. McDanel Date *5/22/96*

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

10 Response Due Date  
20 working days from issuance

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

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. Orina* Date *6/19/96*

14 Remedial Action Due Date  
July 9, 1996 Date

15 Remedial Action Response Acceptance  
*MGM 6/25/96*  
QAR *Mary G. McDanel* 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

M&TE  
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 *Mary A. Mitchell* Date 6/25/96

**24 Response Accepted**

AOQAM *DR Cantale* Date 7-1-96

**25 Amended Response Accepted**

QAR \_\_\_\_\_ Date \_\_\_\_\_

**26 Amended Response Accepted**

AOQAM \_\_\_\_\_ Date \_\_\_\_\_

**27 Corrective Actions Verified**

QAR \_\_\_\_\_ Date \_\_\_\_\_

**28 Closure Approved by:**

AOQAM \_\_\_\_\_ Date \_\_\_\_\_



# United States Department of the Interior

GEOLOGICAL SURVEY<sup>425</sup>  
 BOX 25046 M.S. \_\_\_\_\_  
 DENVER FEDERAL CENTER  
 DENVER, COLORADO 80225



IN REPLY REFER TO:

QA: L

May 8, 1996

## MEMORANDUM

TO: DISTRIBUTION

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

SUBJECT: Deficiency Report YMQAD-96-D049, *R1* *PS 5/14/96*

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

DISTRIBUTION

L. O. Anna	S. K. Pezzopane
S. C. Beason	C. J. Potter
D. A. Beck	G. Rattray
D. C. Buesch	J. P. Rousseau
M. P. Chornack	J. H. Sass
W. J. Davies	C. S. Savard
F. D'Ageneze	G. R. Severson
J. G. Darnell	P. G. Shaeffer
J. D. Earle	R. W. Spengler
M. F. Fahy	W. C. Steinkampf
A. L. Flint	P. S. Striffler
L. E. Flint	J. S. Stuckless
R. M. Forester	D. S. Sweetkind
C. J. Fridrich	P. Tucci
K. Futa	M. J. Umari
D. C. Gillies	J. F. Whelan
R. P. Graves	A. M. Whiteside
W. R. Guertal	J. W. Whitney
W. B. Hamilton	J. B. Woolverton
J. A. Havesi	I. C. Yang
W. C. Hunter	
M. Kurzmack	
E. M. Kwicklis	
G. D. LeCain	
R. R. Luckey	
S. C. Lundstrom	
C. M. Menges	
M. S. O'Brien	
D. W. O'Leary	
G. M. O'Brien	
T. Oliver	
J. B. Paces	
B. Parks	
G. L. Patterson	
Z. E. Peterman	

THE YMPAD-96-DOH, R.1.

**DRAFT**YMP-USGS-QMP-5.03, R8  
Attachment 1Page 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>
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. \_\_\_\_\_

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

8  Performance Report  
 Deficiency Report  
NO. YMQAD-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: Mary G. McDaniel  
Date: 2/24/96  
9 QA Review: [Signature]  
Date: 3/25/96

10 Response Due Date: 20 Working Days From Issuance  
11 QA Issuance Approval: [Signature]  
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: R. W. Craig  
Date: 5/10/96  
14 Remedial Action Due Date: July 9, 1996

15 Remedial Action Response Acceptance: N/A  
Date: [Blank]  
16 PR Verification/Closure: N/A  
Date: [Blank]

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

8  
DR NO. YMOAD-96-D0495  
PAGE 2 OF 22/25/96  
QA: L 10/1/96

**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.  
  
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 <i>N/A</i> QAR <i>N/A</i> Date</p>	<p>24 Response Accepted <i>N/A</i> AOQAM <i>N/A</i> Date</p>
<p>25 Amended Response Accepted <i>N/A</i> QAR <i>N/A</i> Date</p>	<p>26 Amended Response Accepted <i>N/A</i> AOQAM <i>N/A</i> Date</p>
<p>27 Corrective Actions Verified <i>MGM 1/23/96</i></p>	<p>28 Closure Approved by <i>[Signature]</i> AOQAM <i>[Signature]</i> Date 5.24.96</p>



## United States Department of the Interior

GEOLOGICAL SURVEY<sup>425</sup>  
BOX 25046 M.S.  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225



IN REPLY REFER TO:

QA: L

May 8, 1996

## MEMORANDUM

TO: DISTRIBUTION

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

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

DISTRIBUTION

L. O. Anna  
S. C. Beason  
D. A. Beck  
D. C. Buesch  
M. P. Chornack  
W. J. Davies  
F. D'Agenese  
J. G. Darnell  
J. D. Earle  
M. F. Fahy  
A. L. Flint  
L. E. Flint  
R. M. Forester  
C. J. Fridrich  
K. Futa  
D. C. Gillies  
R. P. Graves  
W. R. Guertal  
W. B. Hamilton  
J. A. Havesi  
W. C. Hunter  
M. Kurzmack  
E. M. Kwicklis  
G. D. LeCain  
R. R. Luckey  
S. C. Lundstrom  
C. M. Menges  
M. S. O'Brien  
D. W. O'Leary  
G. M. O'Brien  
T. Oliver  
J. B. Paces  
B. Parks  
G. L. Patterson  
Z. E. Peterman

S. K. Pezzopane  
C. J. Potter  
G. Rattray  
J. P. Rousseau  
J. H. Sass  
C. S. Savard  
G. R. Severson  
P. G. Shaeffer  
R. W. Spengler  
W. C. Steinkampf  
P. S. Striffler  
J. S. Stuckless  
D. S. Sweetkind  
P. Tucci  
M. J. Umari  
J. F. Whelan  
A. M. Whiteside  
J. W. Whitney  
J. B. Woolverton  
I. C. Yang

**DRAFT**Page 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>
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