



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

WBS 1.2.9.3  
QA

JUN 24 1991

Robert F. Pritchett  
Technical Project Officer  
for Yucca Mountain  
Site Characterization Project  
Reynolds Electrical &  
Engineering Co., Inc.  
P.O. Box 98521  
Las Vegas, NV 89193-8521

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION  
REQUEST (CAR) YM-91-033 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE  
DIVISION (YMQAD) AUDIT 91-02 OF REYNOLDS ELECTRICAL & ENGINEERING CO., INC.

The YMQAD staff has verified the corrective action to CAR YM-91-033 and  
determined the results to be satisfactory. As a result, the CAR is  
considered closed.

If you have any questions, please contact either Catherine E. Hampton at  
794-7973 or John S. Martin at 794-7881.

Donald G. Horton, Director  
Yucca Mountain Quality Assurance Division

YMQAD:CEH-4292

Enclosure:  
CAR YM-91-033

cc w/encl:  
K. R. Hooks, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
W. J. Glasser, REECO, Las Vegas, NV  
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

cc w/o encl:  
J. W. Gilray, NRC, Las Vegas, NV

YMP-5

9107020103 910624  
PDR WASTE  
WM-11 PDR

add: K Hooks

102.7  
Wm-11  
NH03

**ORIGINAL**  
**THIS IS A RED STAMP**

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

14CAR NO.: YM-91-033  
DATE: 03/07/91  
SHEET: 1 OF 2  
QA  
WBS No.: 1.2.9.3

**CORRECTIVE ACTION REQUEST**

1 Controlling Document QP-12.0, Rev. 6 and MQA-IP-QS-5.0, Rev. 0		2 Related Report No. AUDIT NO. 91-02	
3 Responsible Organization REECO QSD		4 Discussed With S. Archuleta, E. Kress	
10 Response Due 20 Days After Issue	11 Responsibility for Corrective Action R. F. Pritchett	12 Stop Work Order Y or N No	

**5 Requirement:**

1. Quality Procedure 12.0, Rev. 6, Para. 6.2.2 states, "Prior to installing M&TE into service, it shall be entered into a tracking system log which shall contain as a minimum: item, S/N, model number, user assigned number, data calibrated, date calibration day, date put into service, date removed from service, date used and where used."
2. MQA-IP-QS-5.0, Rev. 0, Para. 1.3 states in part, "All support provided to the YMP shall be governed by internal Implementing Procedures." In addition, Paragraph 2.1 states in part, "This procedure shall apply to all implementing instructions, procedures and drawings developed for use in the YMP support."

**6 Adverse Condition:**

Contrary to the above requirements, the following discrepancies were found:

1. Tracking system utilized by the Physical Standards and Calibration Lab (PSCL) does not contain the following prerequisites: serial number, user assigned number, date calibrated, date put into service, date removed from service, dates utilized or location of utilization.
2. As stated within MQA-IP-QS-5.0, Rev. 0, the procedures developed for utilization by the Quality Systems Division are for internal use only. However, MQA-IP-CP-GEN-1, Rev. 3, contains requirements for the user organizations (i.e., USGS, SAIC, LANL, etc....) in the following paragraphs 6.3, 6.3.1, 6.3.2, 6.3.3, 6.4.1, 6.12, and 6.12.1.

**7 Recommended Action(s):**

Identify the remedial action(s) to be taken to correct the deficiencies noted in Block 6. Investigate the program process, activities or documentation to determine the extent and depth of similar deficient conditions on the CAR. Identify these deficiencies and provide the

8 Initiator J. S. Martin	Date: 02/27/91	9 Severity Level - 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: OQA <i>Catherine H. [Signature]</i>	Date: 3-11-91
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**15 Verification of Corrective Action:**

See attachment #1 "CAR #YM-91-033 Verification of Corrective Action" for details of verification.

16 Corrective Action Completed and Accepted: OQA <i>[Signature]</i> Date: <u>6-14-91</u>	17 Closure Approved By: OQA <i>Catherine H. [Signature]</i> Date: <u>10/14/91</u>
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**ENCLOSURE**

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

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**CORRECTIVE ACTION REQUEST  
(continuation sheet)**

**7 Recommended Action(s) (continued)**

measures required to correct them. Identify the cause of the condition and the planned corrective action to prevent recurrence.

Office of Civilian  
Radioactive Waste Management  
U.S. Department of Energy  
Washington, D.C.

CAR NO. YM-91-033

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SHEET: 1 OF 5

CORRECTIVE ACTION REQUEST  
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-033

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # 1

The requirements of Quality Procedure 12.0 Rev. 6, Para. 6.2.2 is intended to provide a tracking system log for the user of the calibrated M&TE to record where the calibrated equipment is used. This requirement is not applicable to the Physical Standards and Calibration Lab. The specific implementation of this requirement is included in the Construction Department's Procedure, CD-IP-001, and the Drilling Department's Procedure, DD-IP-02. Both procedures include an Exhibit III, M&TE Tracking Log, which contain the minimum recording requirements. A copy of these exhibits are attached. To date, there have been no activities which have necessitated the use of these logs.

No further corrective action is required on the identified potential adverse condition since REECO is in full compliance with the intended requirement.

Response Approved:

*127 Pritchett*

Responsible Manager

*4/1/91*

Date

Response Accepted:

*[Signature]*

QAR

*4-5-91*

Date

Response Accepted:

*[Signature]*

OQA

*4-8-91*

Date

*Stu dtd 4/1/91 - 580-01-337*

Exhibit III  
M&TE Tracking Log

CAR NO. YM-91-033

DATE: 04-01-91

SHEET: 2 of 5

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.  
YUCCA MOUNTAIN PROJECTMEASURING AND TEST EQUIPMENT (M&TE)  
TRACKING LOG

M&amp;TE Item: \_\_\_\_\_

Control (PTL) # \_\_\_\_\_

Serial # \_\_\_\_\_

Model # \_\_\_\_\_ ( S A M P L E )

Date Cali- brated	Recali- bration Due Date	Date Put In Service	Issue Initials	Date Removed From Service	Reason Removed From Service	Date Used	Where Used	Date Returned To DSY	Date Returned To Cal Lab

Exhibit III  
M&TE Tracking LogCAR NO. YM-91-033  
DATE: 04-01-91  
SHEET: 3 of 5REYNOLDS ELECTRICAL & ENGINEERING CO., INC.  
YUCCA MOUNTAIN PROJECTMEASURING AND TEST EQUIPMENT (M&TE)  
TRACKING LOG

M&amp;TE Item: \_\_\_\_\_

Control (PTL) # \_\_\_\_\_

Serial # \_\_\_\_\_

Model # \_\_\_\_\_ ( S A M P L E )

Date Cali- brated	Recali- bration Due Date	Date Put In Service	Issue Initials	Date Removed From Service	Reason Removed From Service	Date Used	Where Used	Date Returned To DSY	Date Returned To Cal Lab

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WASHINGTON, D.C.

CAR NO. YM-91-033

DATE: 04-01-91

SHEET: 4 OF 5

CORRECTIVE ACTION REQUEST  
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-033

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # 2

A. Extent of Deficiency:

The Calibration Lab has reviewed all Calibration Lab Quality Implementing Procedures and in no other internal procedure are requirements for users made as found in REECO YMP Quality Assurance Internal Procedure MQA-IP CP GEN-REV 3, Para. 6.3, 6.3.1, 6.3.2, 6.3.3, 6.4.1, 6.12, and 6.12.1.

B. Root Cause:

The User requirements were put in place before QP 12.0 was written. Review of subsequent revisions did not note these errors and properly remove user requirements.

C. Remedial Actions: (All Actions To Be Completed By 06/01/91)

At the next revision, any reference to user requirements will be removed from REECO MQA-IP-CP-GEN-1, Rev. 3. Requirements from Section 6.3 including Para. 6.3.1, 6.3.2, and 6.3.3 to be reviewed by the REECO Yucca Mountain Office for possible inclusion in REECO YMP Quality Procedure QP 12.0 in specifying REECO M&TE User requirements.

MQA-IP-CP-GEN-1, Rev. 3, shall be revised as follows:

1. Para. 6.4.1.1 shall read - items of M&TE will not be accepted for calibration unless accompanied by a properly completed Calibration Service Requested Form Number RE-0126 (7/89). If items are received from Users without a properly completed RE-0126, the personnel delivering the items will be requested by Cal Lab personnel to complete the service request form.
2. Para. 6.12 shall read - when M&TE cannot be adjusted to within its designated tolerances, a rejected tag (Exhibit IV) or similar, shall be attached, and it shall be returned to the using organization.

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CORRECTIVE ACTION REQUEST  
(continuation sheet)

CORRECTIVE ACTION RESPONSE: CAR YM-91-033 (Continued)

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION # 2

C. Remedial Actions: (Continued)

3. Para. 6.12.1 shall read - M&TE items found to be out of calibration tolerance during calibration shall be adjusted as necessary to bring them into tolerance.

A Physical Standards and Calibration Out of Tolerance Notification, RE-0698 (Exhibit V), shall be prepared by the calibration technician notifying the using organization that a possible nonconforming condition exists detailing the item's identification number and its out-of-tolerance condition.

The MQA-IP-CP-GEN-1, Rev. 3, shall be revised and approved by June 1, 1991.

D. Corrective Action to Prevent Recurrence: (Actions To Be Completed By 06/01/91)

Management has recently (March 26 & 27, 1991) attended a YMP Records Management class which provided a greater understanding of YMP records requirements, in particular draft review documentation. The MQA-IP-CP-GEN-1, Rev. 3, shall be revised and approved by June 1, 1991.

Response Approved: 137 Pritchett 4/1/91  
Responsible Manager Date

Response Accepted: John Martin 4/5/91  
QAR Date

Response Accepted: Arthur Hampton for 4-8-91  
OQA Date



ATTACHMENT #1

CAR # YM-91-033 VERIFICATION OF CORRECTIVE ACTION

On June 10, 1991 a verification of committed corrective for subject CAR was performed. This verification consisted of verifying that ReeCo procedure M2A-IP-QS-5.0 had been revised as specified in ReeCo's response to CAR YM-91-033 dated April 1, 1991. ReeCo procedure M2A-IP-QS-5.0, Rev.4 was reviewed to perform this verification. During this review it was noted that all paragraphs which were to be revised were found to conform to commitments made by ReeCo.

Based upon this verification, no further action is deemed necessary by ReeCo and this CAR is considered acceptable for closure.

John S. MARTIN  
*John S. Martin* 6-10-91

→ In addition, verified that training of Management had been conducted. Training records show that Quality Services Division Personnel attended Records Management class. Attendees were: Steve Griener the Quality Systems Section Chief Department Manager and Sheryl Overmeyer the Quality Systems Records Coordinator (Administrator).

*John S. Martin* 6-14-91