



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

APR 08 1996

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EVALUATION OF RESPONSE AND VERIFICATION OF CORRECTIVE ACTION
AND CLOSURE OF DEFICIENCY REPORT (DR) YMQAD-96-D040 RESULTING
FROM U.S. DEPARTMENT OF ENERGY HEADQUARTERS QUALITY ASSURANCE
DIVISION'S (HQAD) AUDIT HQ-ARC-96-01 (SCP: N/A)

The Yucca Mountain Quality Assurance Division staff has
evaluated the response and verified the corrective action
to DR YMQAD-96-D040 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 794-7945 or Charles C. Warren at 794-7248.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1479

Enclosure:
YMQAD-96-D040

cc w/encl:
T. A. Wood, HQ (RW-14) FORS
J. G. Spraul, NRC, Washington, DC
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OFFICE OF CIVILIAN
 RADIOACTIVE WASTE MANAGEMENT
 U.S. DEPARTMENT OF ENERGY
 WASHINGTON, D.C.

8 Performance Report
 Deficiency Report
 NO. YMQAD-96-D040
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: NWI-SMF-005Q, Rev. 0
 2 Related Report No. Audit Report HQ-ARC-96-01

3 Responsible Organization: DS & SM
 4 Discussed With: Robert Spencer

5 Requirement/Measurement Criteria:
 Section 3.6, "M&TE Calibration Notice System," Step 1 requires the following of the M&TE Custodian:
 Issue written notices to responsible DS & SM Section Managers at least two months prior to the calibration due date of M&TE/OE only. (Notices are to be sent by the 25th day of each month.)

6 Description of Condition:
 The M&TE Custodian has not issued written notices to responsible DS & SM Section Managers prior to the calibration date of some M&TE/OE such as balances and recording thermometers. In addition, the notices that have been issued for other M&TE/OE were not issued at least two months prior to the calibration due date as required.

7 Initiator C.C. Warren Date 02/15/96
 9 QA Review C.C. Warren Date 02/19/96

10 Response Due Date: 20 working days from issuance
 11 QA Issuance Approval [Signature] Date 2-26-96
 QAR (PRI/AO/QAM (DR)

12 Remedial Actions:
N/A

13 Remedial Action Response By: [Signature] Date 3/13/96
 14 Remedial Action Due Date N/A Date

15 Remedial Action Response Acceptance N/A Date
 QAR
 16 PR Verification/Closure N/A Date
 QAR

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DEFICIENCY REPORT

17 Recommended Actions:

1. Evaluate the impact of improper notification for M&TE/OE coming due for calibration to assure equipment was not in use after the date calibration was due.
2. If the notification system is to be modified, make necessary changes to procedure(s) and perform training of personnel as corrective action to preclude recurrence.
3. If notification system is to remain as specified in procedures, take appropriate action to preclude recurrence of procedural noncompliance.

18 Investigative Actions:

An investigation of samples and the evaluation of M&TE records and history files were conducted to determine the impact of the noncompliance with NWI-SMF-005Q, subparagraph 3.6.1. The result of the investigation was that none of the M&TE in question was ever used to collect data when it was not in the current status of calibration. M&TE used was either recalibrated by the end of the month in which the calibration was due (or before), or was removed from service and replaced by calibrated M&TE.

19 Root Cause Determination:

The root cause is linked to the procedure and is remedied by removing the specified timeframe for the "notice of calibration" from NWI-SMF-005Q, subparagraph 3.6.

20 Action to Preclude Recurrence:

An EICN was issued and effective 2/15/96 for NWI-SMF-005Q to include a change in notifying the appropriate DS&SM Manager that there is M&TE in need of calibration by an outside Qualified Supplier. In addition, the M&TE Master List was revised to include a "Calibration Due" column and a "Pull or Re-Cal by" column. This will better assist the M&TE Custodian in notifying the appropriate managers of M&TE that is coming up for recalibration. Appropriate personnel will be trained to the new system; the ICN incorporating the EICN will be effective 3/15/96. Appropriate personnel were trained on the EICN and will be trained to the associated ICN when effective.

<p>21 Response by: <i>Robert Spencer</i> Date 3/13/96</p>	<p>22 Corrective Action Completion Due Date: 3/15/96</p>
<p>23 Response Accepted QAR <i>C.C. Wan</i> Date 3-20-96</p>	<p>24 Response Accepted AQAM <i>[Signature]</i> Date 4.4.96</p>
<p>25 Amended Response Accepted QAR _____ Date _____</p>	<p>26 Amended Response Accepted AQAM _____ Date _____</p>
<p>27 Corrective Actions Verified QAR <i>C.C. Wan</i> Date 3-28-96</p>	<p>28 Closure Approved by: AQAM <i>[Signature]</i> Date 4.4.96</p>

VERIFICATION STATEMENT FOR DR YMOAD-96-D040

1. M&TE calibration files that included certificates of calibration and M&TE/OE Standards Usage Logs for the following equipment were reviewed to verify performance of investigative actions:

- a. 2kg Mass Set, ID# 23031
- b. Humidity/Temperature Tester, ID# 23505
- c. 1kg Mass Set, ID# 23509

2. The following documentation was reviewed to verify actions to preclude recurrence:

- a. ICN# 1 to Nevada Work Instruction NWI-SMF-005Q, Rev. 1, incorporating specified changes to the calibration recall system.
- b. A sample of Reading/Self-Study Forms (Form QAP-2-1) for the above procedure and ICN for the following SMF personnel:

Robert E. Spencer, Dated 3-15-96
Chris C. Lewis, Dated 3-14-96
Chris C. Hermes, Dated 3-20-96

- c. DSSM M&TE/OE List, Dated March 28, 1996, incorporating specified changes to the list.

Based on review of this documentation, this DR may be closed.

Charles C. Warren 3-28-96
Charles C. Warren, QAR