Department of Energy
Yucca Mountain Site Characterization
Project Office
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Las Vegas, NV 89193-8608

WBS 1.2.9.3

MAR 27 1992

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VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-92-003 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-92-01 OF LOS ALAMOS NATIONAL LABORATORY

The YMQAD staff has verified the corrective action to CAR YM-92-003 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at (702) 794-7945 or FTS 544-7945, or John S. Martin at (702) 794-7881 or FTS 544-7881.

R. E. Spence

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-2658

Enclosure:
CAR YM-92-003

cc w/encl:
K. R. Hooks, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
S. L. Bolivar, LANL, Los Alamos, NM
M. J. Clevenger, LANL, Los Alamos, NM
J. L. Day, LATA, Los Alamos, NM

cc w/o encl:
J. B. Tillman, LAAO
J. W. Hines, OQD, AL
A. R. Chernoff, MSD, AL
J. W. Gilray, NRC, Las Vegas, NV
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12

Add: K. R. Hooks Ltr Encl 1 1
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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

14CAR NO.: YM-92-003
DATE: 10/09/91
SHEET: 1 OF 1
QA
WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document	2 Related Report No.
TWS-QAS-QP-12.1, Rev. 4	Audit YMP-92-01

3 Responsible Organization	4 Discussed With
Los Alamos Nat'l. Lab.	S. Bolivar

10 Response Due	11 Responsibility for Corrective Action	12 Stop Work Order Y or N
20 days from issue	R. Herbst	No

5 Requirement:

TWS-QS-QP-12.1, Rev. 4, Para. 6.3, states in part, "...Instruments are calibrated by LANL's Standards and Calibration Group, by a service organization or by the operator. Individuals who perform calibrations...use written procedures."

6 Adverse Condition:

Contrary to the above, the Laboratory has performed calibrations to memos/draft procedures.

DISCUSSION
Examples include use of Memo No. TWS-EES-13-11-90-002 to perform calibrations for standards nos. 4526, 4527, and 4528. In addition, the automated digital electron microscope (ADEM) No. PN 840982 was calibrated utilizing a draft procedure. (Reference draft TWS-EES-DP-129).

7 Recommended Action(s):

1. Correct the deficiencies identified.
2. Investigate to determine if there are other similar deficiencies.
3. Take action to preclude recurrence.

8 Initiator	Date:	9 Severity Level -	13 Approved By:	Date:
J.S. Martin	10/4/91	1☐ 2☒ 3☐	OQA R. C. Spence	10/15/91

15 Verification of Corrective Action:

See verification of corrective action for CAR YM 92-003
JK 3-24-92

16 Corrective Action Completed and Accepted:	17 Closure Approved By:
QAR [signature] Date 3-24-92	OQA R. C. Spence 5/26/92

ENCLOSURE

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

CAR NO. _____
DATE: _____
SHEET: _____ OF _____

CORRECTIVE ACTION REQUEST
(continuation sheet)

CORRECTIVE ACTION RESPONSE FOR CAR NO. YM-92-003:

A. Extent of Deficiency:

The LANL YMP Quality Assurance Project Leader (QAPL) issued memo TWS-EES-13-10-91-047 requesting Principal Investigators (PIs) to determine if there are known instances not previous identified, where work is being conducted to draft procedures.

It has been determined that there are no other instances.

B. Root Cause:

For the first example cited, memo TWS-EES-13-11-90-002 was written to document how mass standard calibrations are conducted. It is not used to conduct the mass standard calibrations. The root cause of this condition is the calibration group's procedure is not adequate to meet LANL YMP requirements for calibrations.

The second example cites the automated electron microscope (ADEM) No. PN 840982 being calibrated to an "in-progress" procedure (TWS-EES-DP-129), this adverse condition was caused by the operator/calibrator's misunderstanding regarding proper procedure reference. The operator/calibrator made an incorrect entry of TWS-EES-DP-129 on the M&TE Calibration Record and consequently entered "in-progress" on "OPERATOR TO CALIBRATE" label found on the ADEM. The "in-progress" entry refers to DP-129, which currently is in review. The "OPERATOR TO CALIBRATE" label should have referenced the ADEM operator's manual directly. It was determined that there was no work done to the draft procedure and that the calibration was done according to the ADEM operator's manual.

C. Remedial Action:

Implementation of the remedial actions will be the responsibility of the LANL YMP QAPL. Scheduled completion date: February 28, 1992.

For the first example cited, procedure LANL-YMP-DP-609 is being written to document how mass standard calibrations are conducted.

For the second example cited, the operator/calibrator has replaced the "OPERATOR TO CALIBRATE" label with one referencing the ADEM operator's manual. The M&TE Calibration Record will be corrected to reference the ADEM operator's manual.

D. Corrective Action to Prevent Recurrence:

Implementation of the corrective action to prevent recurrence will be the responsibility of the LANL YMP QAPL. Scheduled completion date: February 28, 1992.

Ltr dtd 11/8/91 - TWS-EES-13-11-91-032

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CORRECTIVE ACTION REQUEST
(continuation sheet)

CORRECTIVE ACTION RESPONSE FOR CAR NO. YM-92-003: (cont.)

As a result of this CAR, the operator/calibrator now understands how to reference procedures on M&TE calibration records and labels.

Memo TWS-EES-13-10-91-047 has been distributed to all LANL YMP personnel. This memo instructed personnel to stop work on any work activity being conducted to draft procedures. The memo also states that LANL YMP personnel are NOT allowed to work to draft procedures. Therefore, mass standard calibrations will not be conducted until LANL-YMP-DP-609 is issued.

Response Approved	S L Bolivar LANL QAPL S.L. Bolivar	11/8/91. DATE
Response Approved	R. J. Herbst LANL TPO R. J. Herbst	11/8/91 DATE
Response Approved	John S Mar QAR	11/18/91 DATE
Response Approved	M. C. Spence YMQAD	11/21/91 DATE