



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

JAN 23 1995

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Albuquerque, NM 87185

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-94-098 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-94-09 OF SANDIA NATIONAL LABORATORIES (SCPB: N/A)

The YMQAD staff has verified the corrective action to CAR YM-94-098 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 Steven P. Nolan at (702) 794-7731.

YMQAD:RBC-1796

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

Enclosure:
CAR YM-94-098

cc w/encl:
J. H. Hines, OOD, AL
~~J. G. Spraul~~, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
R. R. Richards, SNL,
Albuquerque, NM, M/S 1333
M. C. Brady, SNL, Las Vegas, NV

cc w/o encl:
W. L. Belke, NRC, Las Vegas, NV
D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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

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CORRECTIVE ACTION REQUEST

1 Controlling Document QARD Section XII, Paragraph 12.2.6		2 Related Report No. YMP-94-09	
3 Responsible Organization SNL		4 Discussed With R. Richards/J. Voight/R. Price/W. Olson	
5 Requirement: QAIP-12.1, Revisions 3 and 4, Section 4.2, Step 3-g states, A requirement to generate a signed certification regarding the calibration performed that contains the following minimum information: 3rd Bullet - "Identification of the calibration procedure and revision used;" 7th Bullet - "A quantitative statement of the accuracy and precision of the device including results of the calibration and a statement of acceptability." QARD Section III, Paragraph 12.2.6 states, "Measuring and Test Equipment calibration shall include the following information: F. Results of the calibration and statement of acceptability. E. Identification of the implementing document (including revision level) used			
6 Adverse Condition: The calibration performed by MTS System's Corporation on July 13, 1994, for the following equipment located in Building No. 849, Model No. 662-IBA-10; S/N No. 2814 and Model No. LVDT; S/N 106, Model No. ADT; S/N D-5 exhibited the following deficiencies: (1) does not indicate procedure used with revision (2) no quantitative statement of the accuracy and precision of the device including results of the calibration, and a statement of acceptability (3) no indication whether it was with tolerance and (4) some line-outs and write overs.			
9 Does a Significant Condition Adverse to Quality exist? Yes ___ No <u>X</u> If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E		10 Does a stop work condition exist? Yes ___ No <u>X</u> ; If Yes - Attach copy of SWO If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	
13 Response Due Date: 20 Working Days From Issuance			
11 Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination			
12 Recommended Actions:			
7 Initiator Steven P. Nolan <i>Steven P. Nolan 9-8-94</i>		14 Issuance Approved by: QADD <i>[Signature]</i> Date <i>9-12-94</i>	
15 Response Accepted QAR <i>Steven P. Nolan</i> Date <i>10-18-94</i>		16 Response Accepted QADD <i>[Signature]</i> Date <i>10-25-94</i>	
17 Amended Response Accepted QAR _____ Date _____		18 Amended Response Accepted QADD _____ Date _____	
19 Corrective Actions Verified QAR <i>[Signature]</i> Date <i>1-20-95</i>		20 Closure Approved by: QADD <i>[Signature]</i> Date <i>1-20-95</i>	

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CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

5 Requirements (continued)
in performing the calibration."

1. CORRECTIVE ACTION RESPONSE

(a) Remedial Action:

Will perform the following actions:

- Add the identification of the implementing document (procedure) (including revision level) used in performing the calibration.
- Add quantitative statements of the gage accuracy, the tolerance limit, and the acceptance of the calibration.
- The line-outs and write-overs will be checked, initialed, and dated.

These actions will be performed on the following calibration certificates:

Load Cell, Serial No. 2814

Torque, dated 7-13-94

Axial Force, dated 7-12-94

Rotation Measurement Device ADT, Serial No. D-5, dated 7-13-94

Axial Displacement Device LVDT, Frame No. 106, dated 7-13-94

(b) Extent of Deficiency:

All contractor records relative to Contract No. 66-1662 that cover work performed for the YMP from June 1993 to the present will be examined. Corrective action will be taken as needed.

(c) Preclude Recurrence:

Will provide additional instruction to:

- MTS personnel on importance of information required by Amendment 6 of Contract No. 66-1662.
- ~~SNL staff in Department 6117 on importance of ensuring completeness of records prior to acceptance.~~

(d) Root Cause:

Inattention to details specified in Amendment 6 of Contract No. 66-1662 by both MTS metrologist and the ~~SNL staff responsible for acceptance of calibration records.~~

2. RESPONSIBLE INDIVIDUAL and COMPLETION DATE

Ronald H. Price is responsible for completion of above actions and actions will be completed by November 18, 1994.

3. SIGNATURE of RESPONSIBLE INDIVIDUAL

Ronald H. Price
Signature

10/6/94
Date

10/13/94 LTR. SHEPARD TO SPENCE

RAL
10/12/94 }

RAL
10/12/94 }

VERIFICATION AND CLOSURE STATEMENT

CAR YM-94-097 & YM-94-098

REMEDIAL ACTION;

Actions performed on the following calibration certificates were reviewed and deemed acceptable.

- A) LOAD CELL, Serial No. 2814
 - a) Torque, dated 7-13-94
 - b) Axial Flow, dated 7-12-94
- B) ROTATION MEASURING DEVICE, ADT, S/N. D-5, dated 7-13-94
- C) AXIAL DISPLACEMENT DEVICE, LVDT, S/N, Fr.#106, dated 7-13-94

Reference to MTS manual (MTS Job # 879.20) dated July 1993, actually used to do Torque and Axial Displacement calibration, (see A above) was reviewed by R. Price (task leader) and attached to these calibration certificates. A statement attesting all errors are within tolerance and gauge accuracy is within + or - 0.5% of full scale was added to all calibration certificates, (see A,B, & C above). All write-overs and line-outs on calibration certificates have been initialled and dated, (see A,B & C above).

PRECLUDE RECURRENCE:

Memo issued (R.Price to dist.) 11/18/94 to provide additional instruction to:

- a. MTS personnel
- b. SNL staff, dept. 6117.

EXTENT OF DEFICIENCY:

All contractor records relative to contract no. 66-1662 that cover work performed for YMP from June 1993 to present were examined for completeness, any similar errors found were corrected.

Review of the above by the undersigned was made and found to be acceptable , as a result of this review this CAR is considered closed.

Signed

Robert H. [Signature] 1-17-95