



Department of Energy  
Washington, DC 20585

QA: L

NOV 12 1997

L. D. Foust, Technical Project Officer  
for Yucca Mountain Site  
Characterization Project  
TRW Environmental Safety Systems, Inc.  
1180 Town Center Drive, M/S 423  
Las Vegas, NV 89134

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY  
REPORT (DR) YM-97-D-082 RESULTING FROM OFFICE OF QUALITY  
ASSURANCE (OQA) AUDIT OQA-SA-97-029 OF KIEWIT/PARSONS  
BRINCKERHOFF

The OQA staff has verified the corrective action to DR YM-97-D-082 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Daniel A. Klimas at (702) 794-1495.

*R.W. Clark*  
For Donald G. Horton, Director  
Office of Quality Assurance

OQA:JB-0297

Enclosure:  
DR YM-97-D-082

cc w/encl:

T. A. Wood, DOE/HQ (RW-55) FORS  
J. O. Thoma, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
H. R. Cox, M&O, Las Vegas, NV  
B. R. Justice, M&O, Las Vegas, NV  
R. A. Morgan, M&O, Las Vegas, NV

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV  
D. A. Klimas, OQA/QATSS, Las Vegas, NV  
D. G. Sult, OQA/QATSS, Las Vegas, NV  
R. W. Clark, DOE/OQA, Las Vegas, NV

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

8 ☐ Performance Report  
☒ Deficiency Report

NO. YM-97-D-082

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

DOE/RW-0333P, Revision 7, Quality Assurance Requirements and Description (QARD)

2 Related Report No.

OQA-97-SA-029

3 Responsible Organization:

Kiewit/Parsons Brinckerhoff (Kiewit/PB)

4 Discussed With:

Victor Barish

5 Requirement/Measurement Criteria:

QARD Section 12, Paragraph 12.2.7, states in part: "Measuring and Test Equipment calibration documentation shall include the following information...(H) Identification of the implementing document (including revision level) used in performing the calibration."

6 Description of Condition:

Contrary to the above requirements, the Kiewit/PB Purchase Order 19801129 does not require the revision level of the implementing document used in performing the calibration of the temperature recorder.

7 Initiator

*Daniel A. Klimas*  
Daniel A. Klimas

*8/19/97*

9 Is condition an isolated occurrence?

☐ Yes

☐ No

☒ Unknown; Must be Yes if PR

10 Recommended Action: (Not required for PR)

1. Revise the purchase order to require the revision level for the implementing document used to perform the calibration.
2. Determine the extent of the deficiency for other procurements.
3. Determine the impact on quality for this condition.

11 QA Review:

QAR

Date

*8/19/97*

12 Response Due Date

20 working days from issuance

13 Director, OQA Issuance Approval: (QAR for/PR)

Printed Name *Douglas G. Horton*

Signature

*[Signature]*

Date *9/11/97*

22 Corrective Action Verified

QAR

*[Signature]*

Date

*10/22/97*

23 Closure Approved by: (N/A for PR)

DOQA *R.W. C.* *11/7/97*

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

The revision number for the procedure used by TU Electric to calibrate K/PB's temperature recorder was determined through interface with TU Electric representatives and added to the certification documentation by Kiewit/PB QC personnel (copy attached).

15 Extent of Condition: (Not required for PR)

At the time of receipt of this DR, the calibrated equipment had already been received, accepted, and the Purchase Order (PO) 1980-1129 closed. Revision of the PO was therefore not possible. The revision number of the procedure used by TU Electric to calibrate the equipment identified on PO 1980-1129 was provided by TU Electric and added to the Report of Calibration (copy attached). The only other quality related PO issued in fiscal year 1997 for calibration services was 1980-1115 to National Calibration, Inc (NIC). The PO requirements were the same as for PO 1980-1129. The calibration service provided by NIC was determined to be unsatisfactory based upon a check of the equipment upon its return to the site. Kiewit/PB's request to add NIC to the QSL was subsequently withdrawn. No revision to PO 1980-1115 was required. (continued on page 3)

16 Root Cause Determination: (Not required for PR)

Required: ☐ Yes ☒ No

17 Action to Preclude Recurrence: (Not required for PR)

Required: ☒ Yes ☐ No

Revise the attachment for Calibration Service purchase orders to QSL vendors to include the revision of the procedure used to calibrate K/PB equipment

18 Corrective Action Completion Due Date:

10/24/97

19 Response by: V. J. BARISH, JR.

*V. J. Barish*  
Date 10/08/97

Phone 5-5920

20 Response Accepted -

QAR

Date

*Daniel R. King*  
10-22-97

21 Response Accepted (N/A for PR)

DOQA

Date

*R. W. Carl*  
10/22/97

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**PR/DR CONTINUATION PAGE**

**Block 15 - Extent of condition - continued**

Based upon a satisfactory review of the certification provided by TU Electric, the accuracy of the equipment (checked by comparison upon its arrival at the site) and the satisfactory audit report, it is concluded that there has been no impact to site characterization.

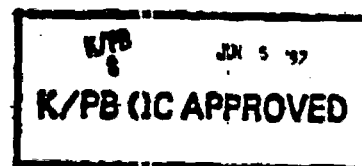


TU ELECTRIC

# REPORT OF CALIBRATION

TEMPERATURE RECORDER  
OMEGA Model: CT-500 S/N None  
10 to 90 °F  
ID# Y-15001

Submitted by:  
Yucca Mountain Project  
Kiewit / PB  
1261 Town center DR.  
LAS VEGAS, NV 89023



This Temperature Recorder was calibrated on May 7, 1997. This item was calibrated using the standard(s) listed on the attached calibration data sheet.

TU Electric certifies the above mentioned customer item has been calibrated using calibration reference standards traceable to the National Institute of Standards and Technology or to natural physical constants while maintaining at least a reference standard to customer item calibration ratio of 4:1 unless otherwise stated on the calibration data sheet in accordance with 10 CFR 50, Appendix B. Using Procedure INC-6202. rev. 1. per Gina

from Rodha Carter's office. W 27 6-5-97

*Philip Mettelor*

Metrology Technician

*FER. R. CARTER*  
Metrology Supervisor

## DUPLICATE ORIGINAL

CPSES Report Number: TUMX000825  
Customer P.O.#: 1980-1129  
Customer ID#: Y-15001  
Page 1 of 2 Pages

COMANCHE PEAK STEAM ELECTRIC STATION  
P.O. Box 1002 Glen Rose, Texas 76043-1002

RECEIVED TIME OCT. 7. 8:36AM

PRINT TIME OCT. 7. 8:37AM

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Verification of completed corrective action for YM-97-D-082

From Block 6 of the Deficiency Report

The revision number of the procedure INC-6202, Revision 1, used to calibrate the Kiewit/PB temperature recorder, ID #Y-15001, was verified as being added to the calibration certificate supplied by TU Electric. The Kiewit/PB Purchase Order 1980-1129 was already closed, no revision to this purchase order is necessary. A review of similar purchase orders for calibration suppliers was performed to determine the extent of the condition. One other purchase order was discovered as having the same deficient condition. Purchase Order 1980-1115 to National Calibration, Inc. did not require the revision level of the calibration procedure to be included on the certification. Kiewit/PB's request to add this supplier to the QSL was subsequently withdrawn and no revision to this purchase order was required.

Verified that the Kiewit/PB procurement document attachment for calibration suppliers has been revised to require the revision level be included on all calibration certificates.

The activities performed as indicated in the accepted response and verified as indicated above are considered satisfactorily implemented.

  
Daniel A. Klimas

10/22/97  
Date