



Department of Energy

Washington, DC 20585

QA: L

JUN 03 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

ISSUANCE OF DEFICIENCY REPORT (DR) YM-97-D-051 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SUPPLIER AUDIT OQA-SA-97-022 OF ARI INDUSTRIES, INC.

Enclosed is DR YM-97-D-051 generated as a result of OQA Supplier Audit OQA-SA-97-022.

Please provide a response to this deficiency that meets the applicable requirements of Administrative Procedure 16.1Q, Performance/Deficiency Reporting. Send the original of your response to Deborah Sult, OQA/QATSS, P.O. Box 30307, Mail Stop 455, North Las Vegas, Nevada 89036-0307. Response to the DR is due 20 working days from the date of this letter. Any extension to the due date must be requested in writing, with appropriate justification, prior to the due date.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Richard L. Maudlin at (702) 794-1302.

Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-1662

Enclosure:
DR YM-97-D-051

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PDR WASTE PDR
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recip! DWm/HLUL

JUN 03 1997

L. D. Foust

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cc w/encl:

T. A. Wood, DOE/HQ (RW-55) FORS  
J. O. Thoma, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
B. R. Justice, M&O, Las Vegas, NV  
R. A. Morgan, M&O, Las Vegas, NV  
F. J. Schelling, M&O/SNL, Albuquerque, NM, M/S 1333  
M. C. Brady, M&O/SNL, Las Vegas, NV  
J. F. Graff, OQA/SNL, Albuquerque, NM, M/S 1395

cc w/o encl:

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

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

8  Performance Report  
 Deficiency Report

NO. YM-97-D-051

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

ARI Industries, Inc., Quality Assurance (QA) Manual, Rev. 01/08/97

2 Related Report No.

OQA-97-SA-022

3 Responsible Organization:

Sandia National Laboratories (SNL)/  
ARI Industries, Inc.

4 Discussed With:

John Mulvey, Ken Hogue, Richard Guy

5 Requirement/Measurement Criteria:

ARI Industries, Inc. QA Manual, Section QM-11, Revision: Orig, states in part: "To assure the reliability of measurement and test results, all equipment used to demonstrate product conformance shall be controlled, adjusted, maintained, and calibrated. Key Elements: ....Traceability of calibrations to Nationally recognized standards...."

ARI Industries, Inc. QSP-11, Revision: Orig, Section F(2) states in part: "Traceability of measuring and test results to the equipment used, will be maintained."

6 Description of Condition:

Contrary to the above:

- A. Standards (working thermocouple standard and PRT working standards) used to perform calibrations of SNL Thermocouples could not be traced from the ARI Industries calibration standards to documentation demonstrating traceability to National Institute of Standards and Technology (NIST). Examples of SNL thermocouple calibrations evaluated include LESF-HD-83-WH-1-TC, LESF-HD-84-WH-2-TC and LESF-HD-127-WH-47-TC.

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7 Initiator

*[Signature]*

Date 05/28/97

9 Is condition an isolated occurrence?

Yes     No     Unknown; Must be Yes if PR

10 Recommended Action: (Not required for PR)

- A. Determine the impact on quality due to the lack of documented traceability of calibrations documented to date. Identify all SNL thermocouples impacted by this lack of traceability.
- B. Identify the cause of the problem and actions necessary to prevent recurrence.

Continued on Page 3

11 QA Review:

QAR

*[Signature]*

Date 05/28/97

12 Response Due Date

20 working days from issuance

13 Affected Organization QA Manager Issuance Approval: (QAR for PR)

Printed Name

D. G. Horton

Signature

*[Signature]*

Date 6/3/97

22 Corrective Action Verified

QAR

Date

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

AQQAM

Date

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR)

Required  Yes  No

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

Required  Yes  No

18 Corrective Action Completion Due Date:

19 Response by:

Initial

Amended

Date

Phone

20 Response Accepted

QAR

Date

21 Response Accepted (N/A for PR):

AOQAM

Date

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**PR/DR CONTINUATION PAGE**

**6. Description of Condition: (Continued)**

- B. Calibration data sheets documenting the calibrations of SNL thermocouples did not provide traceability to the unique standard used to perform the calibration and did not reference the procedure(s) used to perform the calibrations.**

**10. Recommended Action: (Continued)**

- C. Evaluate the quality system procedures in place for traceability and make sure that necessary detail is provided to assure that traceability from the standard or item under calibration is fully traceable through a unique identification from the item to NIST or an acceptable alternate. Also, provide procedures which assure that during calibrations, the personnel performing the calibrations documents the unique standard(s) used on the data sheets and that the procedure and revision number used to perform the calibrations is documented.**