



Department of Energy
Washington, DC 20585

QA: L

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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
REPORTS (DR) YM-97-D-071 AND YM-97-D-072 RESULTING FROM OFFICE OF
QUALITY ASSURANCE (OQA) SUPPLIER AUDIT OQA-SA-97-027 OF WATLOW
GORDON**

The OQA staff has verified the corrective actions to DRs YM-97-D-071 and
YM-97-D-072 and determined the results to be satisfactory. As a result, these DRs are
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. G. Horton
For Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-0321

Enclosure:
DRs YM-97-D-071 and
YM-97-D-072

cc w/encl:
T. A. Wood, DOE/HQ (RW-55) FORS
J. O. Thoma, NRC, Washington, DC
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W. L. Belke, NRC, Las Vegas, NV
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R. W. Clark, DOE/OQA, Las Vegas, NV

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OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
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Performance Report
Deficiency Report

NO. YM-97-D-071

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: Watlow Gordon General Training Procedure		2 Related Report No. OQA-SA-97-027	
3 Responsible Organization: Civilian Radioactive Waste Management System Management and Operating Contractor/ Watlow Gordon		4 Discussed With: Andrew Burningham/Rich Wilkening	
5 Requirement/Measurement Criteria: Watlow Gordon General Training Procedure DN-100/001, Revision D, Paragraph 5.1, states: "The Training Manager shall provide training to new employees and contract employees within the first year after their start date ..." Paragraph 6 states: "The Training Manager will maintain and control all training records for employees ..."			
6 Description of Condition: Contrary to the above requirements, the above-referenced procedure is not in compliance with requirements for completing training prior to performing quality related activities. Additionally, training records were incomplete for several technicians and quality engineers.			
7 Initiator: Daniel A. Klimas Date 7/18/97		9 Is condition an isolated occurrence? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown; Must be Yes if PR	
10 Recommended Action: (Not required for PR) 1) Revise the General Training Procedure to comply with the requirements for completing training prior to performing quality related activities. 2) Determine the impact on quality of present training methods. 3) Document all required training. 4) Reinstruct those individuals responsible for training to requirements.			
11 QA Review: QAR Daniel A. Klimas Date 7/18/97		12 Response Due Date 20 working days from issuance	
13 Affected Organization QA manager Issuance Approval: (QAR for PR) Printed Name DG HORTON Signature James Blaylock Jr Date 7/30/97			
22 Corrective Action Verified QAR Daniel A. Klimas Date 10/2/97		23 Closure Approved by: (N/A for PR) AOQAM [Signature] Date 11/13/97	

Exhibit AP-16.1Q.1

ENCLOSURE

Rev. 06/02/97

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

1. The QA Manager will ensure that the general training procedure is revised to require training be documented prior to conducting work. Due 9/5/97.
2. Watlow Gordon personnel who conduct YMP work will document YMP applicable training by 8/25/97.

Although training was not required to be documented for 1 year, Watlow Gordon personnel did train prior to conducting work. The lack of documentation has no adverse impact on quality.

15 Extent of Condition: (Not required for PR)

This condition applies to all Watlow Gordon personnel who conduct work for YMP contracts.

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:

09/05/97

19 Response by: Rich Wilkening

[Signature]

Date 08/14/97

Phone (815) 678-2211

20 Response Accepted

QAR

[Signature] Date 9/9/97

21 Response Accepted (N/A for PR)

DOQA

[Signature] Date 9/29/97

8/14/97 LV.SPO.TEST.AGB.08/97-138

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PR/DR CONTINUATION PAGE

Verification of completed corrective action for DR YM-97-D-071

From Block 6 of the Deficiency Report

Procedure DN-1001001, Revision D, "General Training Procedure," was revised to require training to be completed at the time of their start date. This was verified by review of Revision E to the above procedure dated 8/29/97.

Verified that the Training Matrix of those individuals performing work for YMP has been updated to reflect current training requirements.

It was determined by Watlow Gordon that personnel had been trained prior to conducting quality activities but this was not properly documented. No adverse impact on quality.

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


Daniel A. Klimas


Date

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☒ Deficiency Report

NO. YM-97-D-072

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

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

2 Related Report No.

OQA-SA-97-027

3 Responsible Organization:

Civilian Radioactive Waste Management System
Management and Operating Contractor/
Watlow Gordon

4 Discussed With:

Andrew Burningham/Rich Wilkening

5 Requirement/Measurement Criteria:

QARD, Section 12.0, para. 12.2.1A, states: "Measuring and Test Equipment including equipment that contains software or programmable hardware shall be calibrated, adjusted, and maintained as a unit at prescribed intervals or prior to use against reference calibration standards having traceability to nationally recognized standards."

6 Description of Condition:

Contrary to the above requirement, the digital hygrometer model number 3309-50 used to record temperature and humidity in the calibration laboratory is not calibrated.

7 Initiator

Daniel A. Klimas

Date 7/18/97

9 Is condition an isolated occurrence?

☐ Yes

☒ No

☐ Unknown; Must be Yes if PR

10 Recommended Action: (Not required for PR)

1. Calibrate the hygrometer.
2. Determine the impact of calibrations performed.
3. Reinstruct those individuals responsible for measuring and test equipment to requirements.

11 QA Review

QAR

Daniel A. Klimas

Date

7/18/97

12 Response Due Date

20 working days from issuance

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

Printed Name

DG HORTON

Signature

James Blaylock

Date

7/30/97

22 Corrective Action Verified

QAR

Daniel A. Klimas

Date

10-24-97

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

AOQAM

R.W. Cap

Date

11/13/97

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

1. The hygrometer in the facility will be calibrated and brought under the control of the QA program by the Instrument Custodian by 8/15/97.
2. The QA Manager will determine and document the impact of the instrument having not been calibrated by 8/20/97.
3. The instrument custodian will retrain to the Willow Gordon calibration procedure by 8/20/97.

15 Extent of Condition: (Not required for PR)

All other M&TE at the Willow Gordon facility have been checked. No other instruments exhibit this condition.

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:

08/20/97

19 Response by: Rich Wilkening

[Signature]
Date 08/14/97

Phone (815) 678-2211

20 Response Accepted

QAR *[Signature]* Date 9/9/97

21 Response Accepted (N/A for PR)

DOQA *[Signature]* Date 9/29/97

9/14/97 LV.SPO.TEST.AGB.08/97-138

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PR/DR CONTINUATION PAGE

Verification of completed corrective action for YM-97-D-072

From Block 6 of the Deficiency Report

The digital hygrometer model number 3309-50 has been calibrated and put under the Watlow Gordon calibration program. This was verified by review of the calibration certificate for the digital hygrometer from Precision Metrology.

It was determined by the technical representative from Lawrence Livermore National Laboratory who was present during the audit that the temperature and humidity would have no impact on the calibrations performed.

The calibration supervisor has been reinstructed to the requirements for calibration control. This was verified by review of the Watlow Gordon QA training database on 6/18/97.

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


Daniel A. Klimas


Date