



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

MAR 04 1996

L. Dale Foust
Technical Project Officer
for Yucca Mountain Site
Characterization Project
TRW Environmental Safety Systems, Inc.
Bank of America Center, Suite P-110
101 Convention Center Drive
Las Vegas, NV 89109

EVALUATION OF AMENDED RESPONSE AND VERIFICATION OF CORRECTIVE
ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) YMQAD-96-D013
RESULTING FROM OFFICE OF QUALITY ASSURANCE SUPPLIER AUDIT
OQA-SA-95-005 OF WESTINGHOUSE ENGINEERING SERVICES (SCPB: N/A)

The Yucca Mountain Quality Assurance Division staff has
evaluated the amended response and verified the corrective
action to DR YMQAD-96-D013 and determined the results to be
satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either Robert B.
Constable at 794-7945 or Richard L. Maudlin at 794-7290.

Robert B. Constable

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1282

Enclosure:
YMQAD-96-D013

cc w/encl:

T. A. Wood, HQ (RW-14) FORS
J. G. Spraul, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
Greg Parker, Westinghouse Electric, Cypress, CA
B. R. Justice, M&O, Las Vegas, NV
Mike Malone, M&O, Las Vegas, NV
R. P. Ruth, M&O, Las Vegas, NV
R. L. Strickler, M&O, Vienna, VA
R. B. Constable, YMQAD, NV

cc w/o encl:

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

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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.	8 <input type="checkbox"/> Performance Report <input checked="" type="checkbox"/> Deficiency Report NO. YMQAD-96-D-013 PAGE 1 OF 2 QA: L
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: Westinghouse Eng. Service SAICT MSS Quality Control Manual, Rev. 4	2 Related Report No. OQA-SA-96-005
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3 Responsible Organization: Westinghouse Engineering Services	4 Discussed With: Greg Parker
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5 Requirement/Measurement Criteria:

SAICT MSS Quality Control Manual, Section 2, Subsection III G, states in part: "The engineering services manager is responsible for documenting that personnel are adequately indoctrinated and trained in the skills and disciplines necessary for them to carry out their functions, this includes indoctrination in the overall quality program and training in the use of appropriate procedures.

6 Description of Condition:

Contrary to the above, there is no documented evidence that Westinghouse Engineering Services employees 13 and 16 had been trained in the use of NAVAR 17-20 MQ, Revision 0, and MFR, Revision 0, prior to performing calibrations to these requirements.

7 Initiator <i>Richard L. Maudlin</i> Richard L. Maudlin Date 11/06/95	9 QA Review QAR <i>Richard L. Maudlin</i> Date 11/14/95
10 Response Due Date 20 Working Days From Issuance	11 QA Issuance Approval QAR (PR)/AQQAM (DR) <i>R. Lemo</i> Date 11/16/95

12 Remedial Actions: ALL TECHNICIANS ARE TRAINED TO USE THE APPROPRIATE CALIBRATION PROCEDURES. TECHNICIANS ARE NOT TRAINED ON INDIVIDUAL CALIBRATION PROCEDURES. REFER TO ENCLOSED CERTIFICATE OF QUALIFICATION SHEETS AMENDED RESPONSE: CERTIFICATE OF QUALIFICATIONS HAVE BEEN AMENDED TO INCLUDE THE PROPER USE OF MANUALS AND PROCEDURES. THESE TECHNICIANS WERE EVALUATED ON AN OVER THE SHOULDER BASIS.

13 Remedial Action Response By: <i>G. PARKER</i> Date 12/15/95	14 Remedial Action Due Date Date 2/12/96
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15 Remedial Action Response Acceptance QAR <i>Richard L. Maudlin</i> Date 2/27/96	16 PR Verification/Closure QAR N/A Date
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**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.**

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DR NO. YMQAD-96-D-013
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QA: L

DEFICIENCY REPORT

17 Recommended Actions:

Evaluate work performed by employees 13 and 16 and assure they were knowledgeable of procedures to perform work.
Evaluate methodology for documenting training to procedures and implement requirements.

18 Investigative Actions:

SEE Block 12
On 7/27/96

19 Root Cause Determination:

N/A
On 7/27/96

20 Action to Preclude Recurrence:

N/A
On 7/27/96

21 Response by:

G. PARKER

Date 12/15/95 On 7/27/96

22 Corrective Action Completion Due Date:

SEE Block 14 On 7/27/96

23 Response Accepted

QAR Date

24 Response Accepted

AQQAMM Date

25 Amended Response Accepted

QAR *[Signature]* Date 2/27/96

26 Amended Response Accepted

AQQAMM *[Signature]* Date 3-1-96

27 Corrective Actions Verified

QAR *[Signature]* Date 7/27/96

28 Closure Approved by:

AQQAMM *[Signature]* Date 3-1-96

WESTINGHOUSE ENGINEERING SERVICES
INSTRUMENTATION & CONTROLS GROUP
CERTIFICATE OF QUALIFICATION

DATE 8/16/94

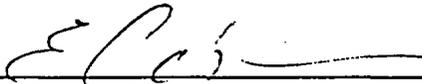
TECH # 13

1. NAME AND TITLE: William A. "Tony" Greuhl Metrology Supervisor
2. CERTIFICATION ACTIVITY: Perform all functions of Metrology Supervisor,
and the repair and calibration of precision test and measuring
equipment.

3. EFFECTIVE PERIOD OF CERTIFICATION: Three Years

4. BASIS FOR CERTIFICATION: Formal education, demonstrated ability,
and expeience.

5. William A. Greuhl IS HEREBY CERTIFIED TO PERFORM
THE ACTIVITY NAMED ABOVE: William A. Greuhl HAS BEEN
EXAMINED AND APPLICABLE EXPERIENCE HAS BEEN REVIEWED IN THE
DETERMINATION OF THIS CERTIFICATION.


IMMEDIATE SUPERVISOR

8/21/94
DATE


OPERATIONS MANAGER

8/21/94
DATE

WESTINGHOUSE ENGINEERING SERVICES
INSTRUMENTATION & CONTROLS GROUP
CERTIFICATE OF QUALIFICATION

DATE 8/16/94

TECH # 16

1. NAME AND TITLE: Victor Ligot Sr. Metrologist
2. CERTIFICATION ACTIVITY: Repair and Calibration of precision test and measuring equipment.

3. EFFECTIVE PERIOD OF CERTIFICATION: Three Years
4. BASIS FOR CERTIFICATION: Formal training & Experience.

5. Victor Ligot IS HEREBY CERTIFIED TO PERFORM THE ACTIVITY NAMED ABOVE: Victor Ligot HAS BEEN EXAMINED AND APPLICABLE EXPERIENCE HAS BEEN REVIEWED IN THE DETERMINATION OF THIS CERTIFICATION.

Tony Smith
IMMEDIATE SUPERVISOR

8-16-94
DATE

Rich
OPERATIONS MANAGER

8/26/94
DATE

Westinghouse Supplier Audit --

The responses to the following Deficiency Report (DR) and Performance Reports (PR) have been evaluated and the results are as follows:

DR YMQAD-96-D013 - The response does not adequately describe how training to the calibration procedures is going to be documented. The attached personnel certifications do not clearly indicate training to calibration procedures.

PR YMQAD-96-P004 - The response to this PR does not address part B of the description of condition as noted in Block 6 of the PR.

PRs YMQAD-96-P005 and P006 - Original and amended responses are acceptable. Awaiting follow-up.

PR YMQAD-96-P003 - Response is acceptable. No further action required.

Please respond to the evaluations for DR YMQAD-96-D013 and PR YMQAD-96-P004.


Richard L. Maudlin, QAR

01-16-96
Date

WESTINGHOUSE ENGINEERING SERVICES
INSTRUMENTATION & CONTROLS GROUP
CERTIFICATE OF QUALIFICATION

DATE 8/16/94

- 1. NAME AND TITLE: Victor Ligot Sr. Metrologist
- 2. CERTIFICATION ACTIVITY: Repair and Calibration of precision test and measuring equipment. This certification includes the proper use of procedures and manuals.

3. EFFECTIVE PERIOD OF CERTIFICATION: Three Years

4. BASIS FOR CERTIFICATION: Formal training & Experience.

5. Victor Ligot IS HEREBY CERTIFIED TO PERFORM THE ACTIVITY NAMED ABOVE: Victor Ligot HAS BEEN EXAMINED AND APPLICABLE EXPERIENCE HAS BEEN REVIEWED IN THE DETERMINATION OF THIS CERTIFICATION.

Tony Squill
IMMEDIATE SUPERVISOR

8-16-94
DATE

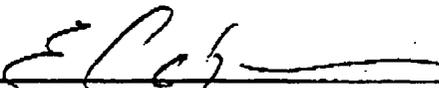
A. Ch...
OPERATIONS MANAGER

8/26/94
DATE

WESTINGHOUSE ENGINEERING SERVICES
INSTRUMENTATION & CONTROLS GROUP
CERTIFICATE OF QUALIFICATION

DATE 8/16/94

1. NAME AND TITLE: William A. "Tony" Greuhl Metrology Supervisor
2. CERTIFICATION ACTIVITY: Perform all functions of Metrology Supervisor, and the repair and calibration of precision test and measuring equipment. This certification includes the proper use of procedures and manuals.
3. EFFECTIVE PERIOD OF CERTIFICATION: Three Years
4. BASIS FOR CERTIFICATION: Formal education, demonstrated ability, and experience.
5. William A. Greuhl IS HEREBY CERTIFIED TO PERFORM THE ACTIVITY NAMED ABOVE: William A. Greuhl HAS BEEN EXAMINED AND APPLICABLE EXPERIENCE HAS BEEN REVIEWED IN THE DETERMINATION OF THIS CERTIFICATION.


IMMEDIATE SUPERVISOR

8/21/94
DATE


OPERATIONS MANAGER

8/21/94
DATE

VERIFICATION OF CORRECTIVE ACTION TO DR YMQAD-96-D013

A review of calibration personnel certifications for two Westinghouse employees revealed that they had been modified to include reference to the use of calibration procedures and manuals as appropriate.

Based on this review, actions regarding implementation of corrective action are considered to be complete and this DR is considered closed.


R.L. Maudlin

2/28/96
Date