



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

WBS 1.2.11
 QA: N/A

SEP 14 1993

William C. Kopatich
 Technical Project Officer
 for Yucca Mountain
 Site Characterization Project
 Raytheon Services Nevada
 101 Convention Center Drive
 Phase IV, Suite P-250
 Las Vegas, NV 89109

EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR) YM-93-076
 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD)
 AUDIT YMP-93-13 OF RAYTHEON SERVICES NEVADA (SCP: N/A)

The YMQAD staff has evaluated the response to CAR YM-93-076. The response has been determined to be satisfactory. Verification of completion of the corrective action will be performed after the effective date provided. Any extension to this date must be requested in writing, with appropriate justification, prior to the date. Please send a copy of extension requests to Nita J. Brogan, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Stephen R. Dana at 794-7176.

Richard E. Spence

Richard E. Spence, Director
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-6028

Enclosure:
 CAR YM-93-076

cc w/encl:

- K. R. Hooks, NRC, Washington, DC *
- S. W. Zimmerman, NWPO, Carson City, NV
- D. J. Tunney, RSN, Las Vegas, NV
- J. C. de la Garza, YMP, NV

cc w/o encl:

- J. W. Gilray, NRC, Las Vegas, NV
- N. J. Brogan, YMQAD/QATSS, Las Vegas, NV

102.7
WM-11
NH03 *1/1*

Ltr. Encl.

ADD: Ken Hooks

1 1

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

⁸ CAR NO. YM-93-076
DATE: 7/21/93
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CORRECTIVE ACTION REQUEST

¹ Controlling Document
QARD, Rev. 0 & PP-02-08, Rev. 1, Training,...of MTL Personnel

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatich & J. Rue

⁵ Requirement:

QARD Section 2.2.11, states in part "Each affected organization shall establish a program for the evaluation, selection, indoctrination, training, and qualification of personnel performing work subject to QARD requirements. The program shall: F. Ensure minimum education and experience are verified or, when minimum education and experience cannot be specifically be verified, provide a statement and justification for the personnel assignment. G. Ensure supervisors evaluate and assess the need for additional indoctrination and training as assignments, positions, and implementing documents change. H. Ensure the required indoctrination and training for a specified task is completed prior to performing the task."

⁶ Adverse Condition:

The following deficiencies were found:

- 1) Documented verification of education and experience had not been accomplished for V. Thummala.
- 2) The annual evaluation for Level I, Level II, and Level III MTL personnel was not documented on the Record of Certification.
- 3) Training to ASTM C 42-90 was not accomplished prior to work initiation for D. Anderson nor D. Herrington.

⁹ Does a significant condition adverse to quality exist? Yes ___ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes ___ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Identify the remedial action to be taken to correct the deficiencies identified in Block 6.
Identify the extent of the condition and the planned corrective action to prevent recurrence.
In addition, identify the root cause of the deficiencies.

⁷ Initiator
S. Jones Date 7/21/93

¹⁴ Issuance Approved by:
QADD *[Signature]* Date 7/27/93

¹⁵ Response Accepted
QAR *S. Jones* Date 9/9/93

¹⁶ Response Accepted
QADD *[Signature]* Date 9/14/93

¹⁷ Amended Response Accepted
QAR _____ Date _____

¹⁸ Amended Response Accepted
QADD _____ Date _____

¹⁹ Corrective Actions Verified
QAR _____ Date _____

²⁰ Closure Approved by:
QADD _____ Date _____

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CORRECTIVE ACTION REQUEST (Continuation Page)

REQUIREMENT (continued)

In implementation of these requirements RSN has generated the following:

- 1) PP-02-02, Rev. 1, "Personnel Selection" paragraph 6.2, which states in part "The Manager, Human Resources shall be responsible for verifying the education and experience of employees and subcontractors of the RSN YMP Office, prior to their performing quality affecting activities."
- 2) PP-02-08, Rev. 1, "Training, Qualification, and Certification of Materials Testing Laboratory Personnel" paragraph 6.9.1, states "Level I, Level II, and Level III MTL personnel shall be evaluated annually by the Examiner. The results of the annual evaluation shall be documented on the Record of Certification."
- 3) PP-02-01, Rev. 1, "Indoctrination and Training" paragraph 6.1.2, states in part "Prior to performing any quality-affecting activity, the employee shall be indoctrinated/ trained as a minimum to the following topics as they relate to a particular function: General criteria, including the QARD, Applicable codes, regulations, and standards."

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CORRECTIVE ACTION REQUEST (Continuation Page)

A. REMEDIAL:

1. V. Thummala was an employee of Holmes & Narver (H&N) and continued employment through the transition to RSN. V. Thummala is a DOE "Q" level security cleared employee. A DOE requirement is that all personnel education and background be verified prior to submittal of application to DOE for a "Q" clearance.

V. Thummala's pre-employment verification was conducted on 6/26/85 by H&N and is present in the RSN Security records. This documentation is now included in the RSN/YMP files.

2. Evaluation for Level I, II and III MTL personnel is now current in RSN/YMP records.
3. Training of required MTL personnel to the ASTM C-42 Standard is conducted upon the release of all updates. Documentation is now current in the RSN/YMP records of training to ASTM C-42 1990 update, the version cited in CAR.

B. INVESTIGATIVE ACTIONS:

Minor. No YMP quality affecting items or work were compromised since all MTL personnel had been verified and trained. Documentation in RSN/YMP records was lacking.

C. ROOT CAUSE DETERMINATION:

Lack of monitoring to ensure that all necessary verification, training and certification documentation had been transmitted to the RSN/YMP records.

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

The Manager, RSN/YMP Field Operations; will monitor MTL personnel verifications, training and annual certifications, and will ensure that necessary documentation is in the records.

Response Approved: _____

Lee E. Watson
Responsible Manager

Date _____

8/23/93

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RADIOACTIVE WASTE MANAGEMENT
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WASHINGTON, D.C.

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CORRECTIVE ACTION REQUEST (Continuation Page)

Amended Response

A. REMEDIAL:

1. V. Thummala was an employee of Holmes & Narver (H&N) and continued employment through the transition to RSN. V. Thummala is a DOE "Q" level security cleared employee. A DOE requirement is that all personnel education and background be verified prior to submittal of application to DOE for a "Q" clearance.

V. Thummala's pre-employment verification was conducted on 6/26/85 by H&N and is present in the RSN Security records. This documentation is now included in the RSN/YMP files.

2. Evaluation for Level I, II and III MTL personnel is now current in RSN/YMP records.
3. Training of required MTL personnel to the ASTM C-42 Standard is conducted upon the release of all updates. Documentation is now current in the RSN/YMP records of training to ASTM C-42 1990 update, the version cited in CAR.

B. INVESTIGATIVE ACTIONS:

The extent of the condition was minor. All MTL personnel files were verified for qualifications, certifications and training. No YMP quality affecting items or work were compromised because all MTL personnel had been qualified, certified and trained. Documentation in RSN/YMP records was lacking.

C. ROOT CAUSE DETERMINATION:

Lack of monitoring to ensure that all necessary verification, training and certification documentation had been transmitted to the RSN/YMP records.

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

The Manager, RSN/YMP Field Operations, has established a non-proceduralized log and checklist for monitoring of MTL personnel verifications, training, and annual certifications, and will ensure that necessary documentation is in the records.

Response Approved: *T. H. Bullback for L. W.*
Responsible Manager

Date 9-3-93

Str dtl 9/2/93 - YMP: 188:93