



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

WBS 1.2.9.3

JUL 06 1992

Richard L. Bullock
Technical Project Officer
for Yucca Mountain
Site Characterization Project
Raytheon Services Nevada
101 Convention Center Drive
Phase II, Suite P-250
Las Vegas, NV 89109

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST
(CAR) YM-92-026 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION
(YMQAD) AUDIT YMP-92-11 OF RAYTHEON SERVICES NEVADA

The YMQAD staff has verified the corrective action to CAR YM-92-026 and
determined the results to be satisfactory. As a result, the CAR is
considered closed.

If you have any questions, please contact either Robert B. Constable at
794-7945 or Mario R. Diaz at 794-7974.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-4300

Enclosure:
CAR YM-92-026

cc w/encl:
K. R. Hooks, NRC, Washington, DC
S. W. Zimmerman, NWFO, Carson City, NV
M. J. Regenda, RSN, Las Vegas, NV

cc w/o encl:
J. W. Gilray, NRC, Las Vegas, NV
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12

9207130184 920706
PDR WASTE
WM-11 PDR

YMP-5

100000

ADD: Ken Hooks

Utr. Encl.
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WM-11
NH03

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

8 CAR NO.: YM-92-026
DATE: 03/13/92
SHEET: 1 OF 2
QA

CORRECTIVE ACTION REQUEST

1 Controlling Document
PP-02-04, Rev. 0

2 Related Report No.
Audit YMP-92-11

3 Responsible Organization
RSN

4 Discussed With
R. Schreiner/R. Deklever

5 Requirement:

PP-02-04, Rev. 0, Paragraph 6.3.1.b, states in part "The Board Chairperson establishes minimum qualifications (e.g. education, experience and independence) needed by the Review Board and Team Review members."

Paragraph 6.3.1.f, states that "The Board Chairperson conducts training for assigned board members and team members to this procedure and other applicable documents in accordance with PP-02-01."

PP-02-01, Rev. 0, Paragraph 6.2.2.1, states that " The Qualified Instructor/Trainer shall develop a lesson plan or outline identifying the subject matter to be covered in the training. As a minimum, the lesson plan or outline shall include the title, content, length, objectives, methods, activities and materials for the instruction. It may include such things as prerequisites, target population, and the method for evaluation of its effectiveness. It shall

6 Adverse Condition:

Readiness Review for ESF Title II Design Activities was performed and documented without being in compliance with some of the procedural requirements.

Based on the requirements shown in block 5 above, the following discrepancies were found during the audit:

- a. R. Deklever was part of the Team Review Board. However, minimum qualifications for his participation were not established.
- b. Training of Board Members and Team Members was not performed by the Board Chairperson.
- c. A lesson plan for the training method used on the Board Members and the Team Members was not developed.
- d. Checklists used in the area of design were not approved by the Team Chairperson.
- e. An OIAL has never been maintained. However, RSN documented this discrepancy under DR-91-S-037. Therefore, as part of the corrective action to this CAR, a follow-up will be performed on the DR

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 SWO
If Yes; Circle One: A B C D

11 Response Due Date:
20 days after issue

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 deficiency noted in block 6. Identify the cause of the condition and the planned corrective action to prevent recurrence.

7 Initiator M. Diaz	<i>Mario Diaz</i>	Date <u>3-13-92</u>	14 Issuance Approved by:	<i>R.C. Spence</i>	Date <u>3/16/92</u>
15 Response Accepted QAR	<i>Mario Diaz</i>	Date <u>4-16-92</u>	16 Response Accepted QADD	<i>R.C. Spence</i>	Date <u>4/24/92</u>
17 Amended Response Accepted QAR	<i>Mario Diaz</i>	Date <u>6-11-92</u>	18 Amended Response Accepted QADD	<i>R.C. Spence</i>	Date <u>6/16/92</u>
19 Corrective Actions Verified QAR	<i>Mario Diaz</i>	Date <u>6-30-92</u>	20 Closure Approved by:	<i>R.C. Spence</i>	Date <u>7/2/92</u>

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8 CAR NO.: YM-92-026

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QA

CORRECTIVE ACTION REQUEST (Continuation Page)

5 Requirements (continued)

document concurrence through the signatures of the following: the qualified instructor who prepared it; a technical peer or manager and the training coordinator."

PP-02-04, Rev. 0, Paragraphs 4.7 and 5.1, state in part that "The checklists shall be completed and approved by the team members and the Team Chairperson."

Paragraphs 4.8 and 6.8 state in part that "All items identified as unsatisfactory or open shall be tracked via the Open Item Action Log (OIAL) until closed. The OIAL is maintained by the Systems Engineering Department as part of the RSN YMP Management Information System."

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CORRECTIVE ACTION REQUEST (Continuation Page)

5 Requirements (continued)

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Paragraphs 4.8 and 6.8 state in part that "All items identified as unsatisfactory or open shall be tracked via the Open Item Action Log (OIAL) until closed. The OIAL is maintained by the Systems Engineering Department as part of the RSN YMP Management Information System."

RSN Response: Reference Discrepancy 6.a.

Remedial Action Taken - Qualification documentation has been established and approved by the Readiness Review Chairperson for R. DeKlever. This documentation has been transmitted to the RSN Training Coordinator.

Root Cause Determination - The requirements were not clearly defined in the procedure.

Corrective Action to Preclude Recurrence - Procedure PP-02-04 will be revised to be more specific regarding Qualification requirements for all Board and Team members.

Reference Discrepancy 6.b.

Remedial Action Taken - The Indoctrination was performed by the Assistant Chairperson of this Readiness Review to the various RSN/YMP members. The procedure, PP-02-04, will be revised to state that ...indoctrination of RSN/YMP Readiness Review members will be performed by the Readiness Review Chairperson or designee and training of non-RSN/YMP Readiness Review members will be performed by the Chairperson or designee.

Root Cause Determination - Procedure too restrictive.

Corrective Action to Preclude Recurrence - Revise Procedure PP-02-04 to include indoctrination of RSN/YMP Readiness Review members and training of non-RSN/YMP Readiness Review members.

Reference Discrepancy 6.c.

Remedial Action Taken - The procedure will be revised to allow for an orientation in lieu of training when training is not necessary. The method of training chosen by the Readiness Review Board Chairperson was self-study assignment which does not require a lesson plan. Documented evidence of the self-study is in the training file.

Root Cause Determination - Procedure overly restrictive. Will clarify Indoctrination and Training requirements for members.

Ltr. dtd 4/10/92 - RSN - YMP - 1327

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QA

CORRECTIVE ACTION REQUEST (Continuation Page)

Corrective Action to Preclude Recurrence - Revise procedure to clarify requirements for indoctrination and Training lesson plans.

Reference Discrepancy 6.d.

Remedial Action Taken - The checklists for design has been signed and dated by the Readiness Review Chairperson. These documents have been transmitted to the Local Records Center.

Root Cause Determination - Required signature authority letter for Assistant Chairperson during absence of Readiness Review Chairperson.

Corrective Action to Preclude Recurrence - Procedure will be revised to make provisions for similar events occurring in the future.

Reference Discrepancy 6.e.

Remedial Action Taken - RSN has documented the open items in the Readiness Review Open Item Tracking Log although all open items for Readiness Review RMR-RR-001 has been closed out.

Root Cause Determination - Not enough attention to procedure detailed requirements.

Corrective action to Preclude Recurrence - A Readiness Review Open Items Log has been developed and will be implemented for subsequent Readiness Reviews.

Estimated Completion: 6-12-92

Responsible Individual: _____

R. L. Schreiner
R. L. Schreiner
Manager, Systems Engineering

Response Approval: _____

M. Wilson for R. L. Bullock

Date: _____

4-10-92

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

CAR NO YM-92-026
DATE June 3, 1992
SHEET 1 OF 1

CORRECTIVE ACTION REQUEST
(continuation sheet)

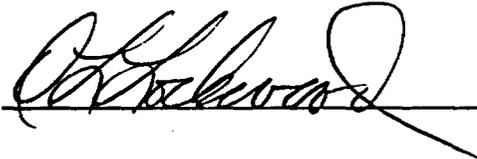
Amended Response

The Yucca Mountain Site Characterization Office (YMP) has cancelled the applicable readiness review procedure AP-5.13Q. As a result of this, RSN YMP is in the process of deleting project procedure PP-02-04 "Readiness Review".

Based on this procedure deletion, responses submitted earlier on April 10, 1992, as indicated in the referenced (2) of this attached letter are no longer valid.

RSN YMP plan to conduct Readiness Reviews under the RSN YMP Quality Assurance audit Program. The applicable audit procedure QAP-18.1(Y) will be revised to reflect this change by June 18, 1992.

RESPONSE APPROVED:



DATE:

6/4/92

Ltr dtd 6/3/92 - RSN - YMP-1343

