



**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

AUG 16 1993

Larry R. Hayes  
Technical Project Officer  
for Yucca Mountain  
Site Characterization Project  
U.S. Geological Survey  
101 Convention Center Drive  
Suite 860  
Las Vegas, NV 89109

**EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR)  
YM-93-052 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE  
DIVISION (YMQAD) AUDIT YMP-93-010 OF U.S. GEOLOGICAL SURVEY  
(SCP: N/A)**

The YMQAD staff has evaluated the response to CAR YM-93-052. 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 James Blaylock at 794-7913.

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:RBC-5574

Enclosure:  
CAR YM-93-052

cc w/encl:

Trudy Wood, HQ (RW-52) FORS  
K. R. Hooks, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
R. J. Brackett, M&O/Duke, Vienna, VA  
R. L. Robertson, M&O/TRW, Vienna, VA  
J. A. Jackson, M&O/TRW, Las Vegas, NV  
R. W. Craig, USGS, Las Vegas, NV

cc w/o encl:

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

9308240204 930816  
PDR WASTE  
WM-11 PDR

YMP-5

ADD: Ken Hooks

W. Encl.

102.7  
102.8 WM-11  
NHD3

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

8 CAR NO.: YM-93-052  
DATE: 06/25/93  
SHEET: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST**

1 Controlling Document  
QAPP, Revision 5, Section 16.0

2 Related Report No.  
Audit YMP-93-010

3 Responsible Organization  
USGS

4 Discussed With  
T. Chaney/L. Hayes

5 Requirement:

Section 16.0 states in part: "This system shall insure that significant conditions that are adverse or potentially adverse to quality, are identified promptly and corrected as soon as practical."

6 Adverse Condition:

YMP-USGS-QMP-16.01, Revision 3 does not have sufficient management controls for timely closure of CARs. As an example of procedural ineffectiveness, three of eighteen open corrective actions deal with late evaluation, late responses, or failure to implement timely corrective action (CARs 90-04, 92-02, and 92-07). These three CARs range from 14 months to 32 months old.

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 Working Days  
from Issuance

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

13 Recommended Actions:

Establish stringent guidelines in granting extension requests. Establish plans for closing older CARs.

7 Initiator James Blaylock  
James Blaylock

Date 06/24/93

14 Issuance Approved by: [Signature]  
QADD [Signature] Date 07-01-93

15 Response Accepted  
QAR James Blaylock

Date 08/09/93

16 Response Accepted  
QADD [Signature] Date 8/13/93

17 Amended Response Accepted

QAR Date

18 Amended Response Accepted

QADD Date

19 Corrective Actions Verified

QAR Date

20 Closure Approved by:

QADD Date

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

CAR NO. YM-93-052  
DATE: 7/29/93  
SHEET: 2 OF 3

CORRECTIVE ACTION REQUEST  
(Continuation Page)

1. CORRECTIVE ACTION RESPONSE FOR CAR #YM-93-052

- A. **REMEDIAL ACTIONS:** The Chief, Yucca Mountain Project Branch, will provide a written reminder to all Program Chiefs that they are responsible for assuring that corrective actions within their respective areas are given appropriate priority and that extension requests must be justified in writing prior to the scheduled corrective action due date.

The QA Manager will review all Corrective Action Reports over six months old to confirm that the corrective action commitments and the proposed schedules are still appropriate. If problems are noted, the QA Manager will contact the appropriate management to recommend revision to the actions or the schedule. In addition, audit staff assignments have been refocused to expedite the verifications of completed actions. Three USGS Corrective Action Reports have been verified and closed since the YMQAD audit.

- B. **INVESTIGATIVE ACTIONS:** Not requested
- C. **ROOT CAUSE DETERMINATION:** The root cause is that management has not given appropriate priorities to resolving corrective actions in a timely manner.
- D. **CORRECTIVE ACTION TO PRECLUDE RECURRENCE:** Procedure YMP-USGS-QMP-16.04, Quality Deficiency Reports, will be revised to include criteria for requesting an extension and to include a requirement that the justification be evaluated by the QA Office against the criteria specified in the procedure. If the requested extension is rejected, the QA Manager will coordinate with the technical management of the responsible organization to develop an acceptable corrective action schedule. (NOTE: The YMP-USGS procedures addressing deficiency documents are currently being combined into one Quality Management Procedure QMP-16.04.)

*Ltr dtd 7/29/93 - Hagen to Spencer*

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

CAR NO. YM-93-052  
DATE: 7/29/93  
SHEET: 3 of 3

CORRECTIVE ACTION REQUEST  
(Continuation Page)

CORRECTIVE ACTION RESPONSE FOR CAR #YM-93-052 (Continued)

2. INDIVIDUAL ASSIGNED RESPONSIBILITY AND ANTICIPATED  
COMPLETION DATE:

A. REMEDIAL ACTIONS:

Responsible actionee - Larry R. Hayes, Chief, YMPB-USGS      Completion  
date

August 31, 1993 - reminder to Program Chiefs

Responsible actionee - Thomas H. Chaney, YMP-USGS QA

Man-  
ager,

Completion date

August 31, 1993 - review of old Corrective Action

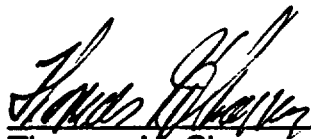
Reports

B. INVESTIGATIVE ACTIONS: Not requested

C. ROOT CAUSE DETERMINATION: Not applicable

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE: Responsible actionee  
Larry R. Hayes and Thomas H. Chaney, QMP-16.04, RO is expected to be  
approved by August 16, 1993 and effective by August 30, 1993.

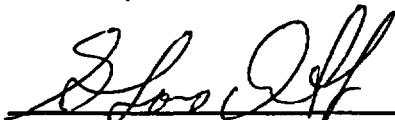
3. RESPONSE APPROVED:



Thomas H. Chaney, YMP-USGS  
Quality Assurance Manager

7/30/93

Date



Larry R. Hayes, Chief, Yucca  
Mountain Project Branch

7/30/93

Date