



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

WBS 1.2.9.3

OCT 13 1992

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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST
(CAR) YM-92-029 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION
(YMQAD) AUDIT YMP-92-13 OF U.S. GEOLOGICAL SURVEY

The YMQAD staff has verified the corrective action to CAR YM-92-029 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 Cynthia H. Prater at 794-7742.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-356

Enclosure:
CAR YM-92-029

cc w/encl:

K. R. Hooks, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
T. H. Chaney, USGS, Denver, CO
R. W. Craig, USGS, Las Vegas, NV
J. H. Rusk, MACTEC, Las Vegas, NV

cc w/o encl:

J. W. Gilray, NRC, Las Vegas, NV
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12
D. D. Porter, SAIC, Golden, CO

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PDR WASTE
WM-11

PDR

YMP-5

ADD: Ken Hooks

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

8 CAR NO.: YM-92-029
DATE: 4/14/92
SHEET: 1 OF 2
QA

CORRECTIVE ACTION REQUEST

1 Controlling Document USGS-YMP-QMP-3.04		2 Related Report No. AUDIT YMP-92-13	
3 Responsible Organization USGS		4 Discussed With K. W. Causseaux/ T. Chaney	
<p>5 Requirement:</p> <p>YMP-USGS-QMP-3.04, Rev 1, Technical Review of Publications, effective 10/27/86, Section 7.0 Records Management states "The document and its supporting documents shall be submitted to the USGS Records Processing Center in accordance with QMP-17.01".</p> <p>NOTE: It is recognized that the current revision of QMP-3.04 is revision 3, with modification M2.</p>			
<p>6 Adverse Condition:</p> <p>In some instances, major comments from reviewers are not in Record Package Segments.</p> <p>DISCUSSION</p> <p>For example, the complete comments by Alan Flint regarding his technical review of publication "Geohydrology and evapotranspiration at Franklin Lake Playa", Inyo County, California: U.S.G.S Open-File Report 90-356 by J.B. Czarnecki were not in the Record Package Segment for this publication.</p> <p>NOTE: The comments were found in a file that was being held by USGS with a note indicating that the documents in this file were not to be transmitted to the Central Records Facility.</p> <p>These comments had been removed from the records segment package because the comments were on a draft copy of the document rather than on a memo or Comment Resolution Sheet and USGS management had decided to remove draft copies of</p>			
9 Does a significant condition adverse to quality exist? Yes ___ No <u>X</u> If Yes, Circle One: A B C		10 Does a stop work condition exist? Yes ___ No <u>X</u> ; if Yes - Attach copy of SWO If Yes, Circle One: A B C D	
11 Response Due Date: 20 days from issuance			
12 Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination			
13 Recommended Actions: Investigate to determine the extent of the deficiency. Correct deficiencies found.			
7 Initiator R. E. POWE <i>RE Powe</i> Date 4/14/92		14 Issuance Approved by: QADD <i>R.C. Spence</i> Date 4/20/92	
15 Response Accepted QAR <i>CC Williams for R.E. Powe</i> Date 5-19-92		16 Response Accepted QADD <i>R.C. Spence</i> Date 5/26/92	
17 Amended Response Accepted SUPPLEMENTAL RPT 6/1/92 QAR <i>R.E. Powe</i> Date 6/9/92		18 Amended Response Accepted 5/26/92 QADD <i>R.C. Spence</i> Date 6/9/92	
19 Corrective Actions Verified QAR <i>R.C. Spence</i> Date 10/7/92		20 Closure Approved by: QADD <i>R.C. Spence</i> Date 10/13/92	

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CORRECTIVE ACTION REQUEST (Continuation Page)

6 Adverse Condition (continued)

documents from the records file.

USGS-YMP-QMP-3.04 Revision 3 requires use of a Comment Resolution Form to document major comments, therefore there should be no reason to take any further action to prevent the practice of documenting major comments within the body of the draft document.

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CORRECTIVE ACTION REQUEST (Continuation Page)

1. YMP-USGS CORRECTIVE ACTION RESPONSE FOR CAR # YM-92-029

A. Remedial Action - Actions taken to correct specific deficiencies noted.

The records package for the specific report cited in Block 6 of this CAR will be evaluated/corrected by 5/29/92. In addition, record packages identified during investigative actions noted in item B. below will be evaluated/corrected by 8/3/92.

B. Investigative Action - Actions taken to determine the extent of the condition.

Investigative actions taken by Hydrologic Investigations Program (HIP) have identified 25 additional report record packages in the YMP-USGS Local Records Center that require further evaluation and identification of possible need for remedial action.

Initial investigative actions have not identified that the same deficiency exists with Geologic Division/Geologic Studies Program report record packages. Therefore, approximately 50 records packages will be randomly sampled by the Branch Office. A supplemental response will be forwarded to DOE/YMQAD by 6/8/92 to outline the results of the investigation and, if needed, to identify required remedial actions to be completed by 8/3/92.

C. Root Cause Determination - Identification of the root cause of the condition.

Not requested from Yucca Mountain Quality Assurance Division Office.

D. Corrective Action To Preclude Recurrence - Actions taken to address the root cause and preclude recurrence of the condition.

Not requested from Yucca Mountain Quality Assurance Division Office.


2. Scheduled Corrective Actions and Responsibilities.

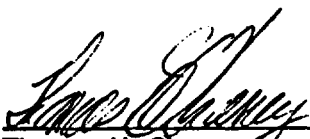
5/29/92 D.H.Appel, Chief, HIP - correct records package for report cited in Block 6 of CAR.

6/8/92 G.L.Ducret, Chief, Programs and Plans - investigate GD/GSP record packages. Report results and outline plan for remedial action.

8/3/92 D.H.Appel, Chief, HIP or J.S.Stuckless, Chief, GSP - correct records packages identified as a result of investigative actions.

3. Response Approved:


Larry R. Hayes, USGS Chief,
Yucca Mountain Project Branch
Date 5/18/92


Thomas H. Chaney
YMP-USGS Quality Assurance Manager
Date 5/18/92

Std dtd 5/18/92 - Hayes to sponsor

OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
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CORRECTIVE ACTION REQUEST (Continuation Page)

The following information supplements the 5/18/92 YMP-USGS response for this CAR.

1. **SUPPLEMENTAL RESPONSE FOR CORRECTIVE ACTION REQUEST CAR-YM-92-029.**

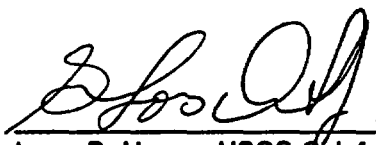
B. **Investigative Action - Actions taken to determine the extent of the condition.**

Investigative actions are complete. Fifty Geologic Division/Geologic Studies Program report record packages were evaluated. The record packages included major comments made by reviewers. No additional investigative or remedial actions are warranted. The remedial actions are underway to evaluate/correct the record packages previously identified by the Hydrologic Investigations Program.

2. **UPDDATED SCHEDULE NOTING STATUS OF CORRECTIVE ACTION.**

5/29/92	Completed. D.H.Appel, Chief, HIP - records package for report cited in Block 6 of CAR has been evaluated and corrected.
6/8/92	Completed. G.L.Ducret, Chief, Programs and Plans - investigation of 50 GD/GSP record packages revealed no additional problems.
8/3/92	D.H.Appel, Chief, HIP - correct 25 records packages identified as a result of investigative actions.

3. **RESPONSE APPROVAL.**


for Larry R. Hayes, USGS Chief, Date 6/5/92
Yucca Mountain Project Branch


Thomas H. Chaney, Date 6/5/92
YMP-USGS Quality Assurance Manager

See also 6/5/92 - Hayes to Spencer

VERIFICATION OF CAR NO. YM-92-029

Verification of CAR YM-92-029 was performed during Audit YMP-92-20 and on September 15, 1992.

REMEDIAL:

1. Investigative action by the YMP-USGS identified 25 additional report record packages in the YMP-LRC that required further evaluation.
2. In addition, 50 Geologic Division/Geologic Studies Program report record packages were evaluated. Included in the packages were major comment made by reviewers.
3. The QAR reviewed 2 packages at the YMP-USGS LRC, "Absorption of Water into Porous Blocks of Various Shapes and Sizes: Water Resources Research," and Preliminary Permeability and Water-retention Data from Non-welded and Bedded Tuff Samples, Yucca Mountain Area, Nye County, Nevada." The Technical Reviewer's Appraisal Forms for both reports were marked "Publish with minor technical revision (as noted below or in attached memorandum)." Upon review of comments to both reports, the QAR concurred that the comments were minor or editorial in nature.

INVESTIGATIVE ACTION

Upon further investigation, YMP-USGS determined that 2 reviews by A.K. Turner had been withheld from the original report record package. These were submitted to the YMP-USGS LRC as an amendment to the original package on August 3, 1992.

ROOT CAUSE DETERMINATION

Not requested by YMQAD office.

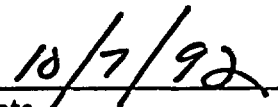
CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

Not requested by YMQAD office.

VERIFICATION OF CORRECTIVE ACTION

The QAR verified that the above mentioned amendment had been submitted and accepted by the YMP CRF as a correction to Record Package NNA.920417.00009.


Cynthia H. Prater, QAR


Date

CONCUR:  10/7/92