



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

QA: L

SEP 22 1994

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-94-045 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE
DIVISION (YMQAD) AUDIT YMP-94-06 OF U.S. GEOLOGICAL SURVEY
(SCPB: N/A)

The YMQAD staff has evaluated the response to CAR YM-94-045. 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 Deborah Sult, 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 Richard L. Maudlin at 794-7290.

Catherine Hampton for
Richard E. Spence, Acting Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-5147

Enclosure:
CAR YM-94-045

cc w/encl:

R. L. Johnson, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
T. H. Chaney, USGS, Denver, CO
R. W. Craig, USGS, Las Vegas, NV
D. D. Porter, SAIC, Golden, CO

cc w/o encl:

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

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PDR WASTE
LM-11 PDR

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

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CORRECTIVE ACTION REQUEST

1 Controlling Document YMP-USGS-QMP-3.03, Revision 4		2 Related Report No. YMP-94-06	
3 Responsible Organization USGS		4 Discussed With D. Gockel/M. Wallendorf	
5 Requirement: QMP-3.03, Paragraph 5.3.2.3 states in part: "Software user documentation.... It shall include basic information such a installation procedures, hardware and software operating environments, input and input options, file formats and default parameters."			
6 Adverse Condition: Contrary to the above, no objective evidence in the form of user documentation could be provided to reflect all of the information required to be addressed in the user documentation for MAIN 130/1.			
9 Does a Significant Condition Adverse to Quality exist? Yes ___ No <u>X</u> If Yes, Circle One: A B C D E		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	
3 Response Due Date: 20 Working Days From Issuance			
11 Required Actions: <input checked="" type="checkbox"/> Remedial <input type="checkbox"/> Extent of Deficiency <input type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination			
12 Recommended Actions: Either generate or obtain user documentation that addresses the information specified in QMP-3.03, Revision 4 for main 130/1.			
7 Initiator Richard L. Maudlin <i>C. C. Warner for</i> <i>6-30-94</i>		14 Issuance Approved by: QADD <i>[Signature]</i> for Date 7-4-94	
15 Response Accepted QAR <i>[Signature]</i> Date 07/14/94		16 Response Accepted QADD <i>[Signature]</i> Date 9/21/94	
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)

1. CORRECTIVE ACTION RESPONSE FOR CAR No. YM-94-045

A. **REMEDIAL ACTION:** Prior to the performance of the recommended remedial actions for the cited software, MAIN130, a detailed investigation is necessary to confirm the applicability of YMP-USGS-QMP-3.03, R4 to MAIN130 (i.e. Is MAIN130 Scientific and Engineering Software (SES)?). This investigation, which involves USGS YMP Branch, YMP-USGS QA Office, and YMP-USGS Geologic Studies Program personnel in Denver and in Menlo Park, California, is currently underway. It will be concluded with the completion of a supplemental response to this CAR to be provided by August 31, 1994, which will provide the results of this investigation and will outline remaining remedial actions. Should MAIN130 be confirmed to be SES, a plan and schedule will be provided to put adequate user documentation in place for MAIN130. Otherwise, the software will be withdrawn from YMP-USGS Software Configuration Management.

B. **EXTENT OF THE DEFICIENCY:** Not Applicable.

C. **ROOT CAUSE DETERMINATION:** Not Applicable.

D. **CORRECTIVE ACTION TO PRECLUDE RECURRENCE:** Not Applicable.

2. For each action above, identify the name of the individual assigned responsibility for completion of the action and the anticipated (or actual, if complete) completion date.

1.A. SES Investigation and Supplemental Response:

M.A. Wallendorf, YMP-USGS SCM Coordinator

08/31/94

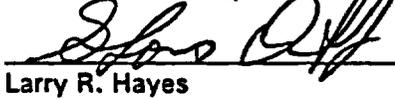
3. RESPONSE APPROVED:



Thomas H. Chaney

8/1/94
Date

YMP-USGS Quality Assurance Manager



Larry R. Hayes

8/1/94
Date

Chief, Yucca Mountain Project Branch

8/1/94 Ltn. Hayes to Spence

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CORRECTIVE ACTION REQUEST (Continuation Page)

SUPPLEMENTAL RESPONSE: (As outlined in the original corrective action response dated 08/01/94.)

1. CORRECTIVE ACTION RESPONSE FOR CAR No. YM-94-045

A. **REMEDIAL ACTION:** A detailed investigation has been completed to determine the applicability of YMP-USGS-QMP-3.03, R4 to MAIN130. This investigation, which involved USGS YMP Branch Office and YMP-USGS Geologic Studies Program personnel, has concluded that MAIN130 is not Scientific and Engineering Software as defined by YMP-USGS-QMP-3.03. A Software Identification Form has been completed in accordance with QMP-3.03 to document the results of the investigation and the withdrawal of the software from further software configuration management. No additional remedial actions are required.

B. **EXTENT OF THE DEFICIENCY:** Not Applicable.

C. **ROOT CAUSE DETERMINATION:** Not Applicable.

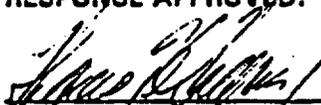
D. **CORRECTIVE ACTION TO PRECLUDE RECURRENCE:** Not Applicable.

2. For each action above, identify the name of the individual assigned responsibility for completion of the action and the anticipated (or actual, if complete) completion date.

1.A. M.A. Wallendorf, YMP-USGS SCM Coordinator

08/23/94

3. RESPONSE APPROVED:



Thomas H. Chaney
YMP-USGS Quality Assurance Manager

8/31/94
Date



Larry R. Hayes
Chief, Yucca Mountain Project Branch

8/31/94
Date

8/31/94 Ltn. Hayes to Spence