



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
P.O. Box 98608
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DEC 06 1994

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for Yucca Mountain
Site Characterization Project
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P.O. Box 5800, Mail Stop 1333
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EVALUATION OF AMENDED RESPONSE TO CORRECTIVE ACTION REQUEST
(CAR) YM-94-089 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE
DIVISION (YMQAD) AUDIT YMP-94-09 OF SANDIA NATIONAL LABORATORIES
(SCPB: N/A)

The YMQAD staff has evaluated the amended response to CAR YM-94-089. The amended 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 (702) 794-7945 or James Blaylock at (702) 794-7913.

Robert B. Constable for

YMQAD:RBC-1107

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

Enclosure:
CAR YM-94-089

cc w/encl:

J. H. Hines, OOD, AL
~~J. G. Spraul~~, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
R. R. Richards, SNL, Albuquerque, NM, M/S 1333
M. C. Brady, SNL, Las Vegas, NV

cc w/o encl:

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

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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 QAIP 02-04, Revision 1, Conducting and Documenting Analysis		2 Related Report No. YMP-94-09	
3 Responsible Organization SNL		4 Discussed With C. Brechtel/D. Kessel	
5 Requirement: QAGR 1.2.3.2.6.2.3, Surface Facilities Field Tests and Characterization Measurements, invoked QAIP 02-04 for calculations associated with rock quality measurement.			
6 Adverse Condition: Calculations associated with the WBS identified above, use a Monte Carlo subroutine. There is no evidence that the calculations were conducted in accordance with the requirements of QAIP 02-04.			
9 Does a Significant Condition Adverse to Quality exist? Yes ___ No <u>X</u> If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E		10 Does a stop work condition exist? Yes ___ No <u>X</u> ; If Yes - Attach copy of SWO If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	
13 Response Due Date: 20 Working Days From Issuance			
11 Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination			
12 Recommended Actions:			
7 Initiator <u>James Blaylock</u> James Blaylock		14 Issuance Approved by: QADD <u>R Blountable</u> for Date <u>9-12-94</u>	
15 Response Accepted QAR _____ Date _____		16 Response Accepted QADD _____ Date _____	
17 Amended Response Accepted QAR <u>James Blaylock</u> Date <u>12/1/94</u>		18 Amended Response Accepted QADD <u>R Blountable</u> for Date <u>12-5-94</u>	
19 Corrective Actions Verified QAR _____ Date _____		20 Closure Approved by: QADD _____ Date _____	

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CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

Corrective Action Response for CAR # YM-94-089

A. Remedial Action

Information that documents that the proper performance of the monte carlo simulation has been added to the Scientific Notebook WA-0071 Rock Mass Quality Index Derived From NRG Core Data has been added. The contents of the SN were reviewed against the requirements of QAIP 2-4 and determined to be in compliance with this additional documentation.

B. Extent of the Deficiency

A review of other SNs developed under WA-0071 determined that the missing documentation was limited to one SN.

There was no adverse impact to the quality of the data obtained under this SN and with the additional documentation no conditions adverse to quality exist.

C. Root Cause Determination

The level of detail in the notebook was not sufficient. The guidance provided by the Task Leader for the level of detail required to document analyses was inadequate.

D. Corrective Action to Prevent Recurrence

Training meetings will be conducted with all personnel involved in generating scientific notebooks for W.B.S. 1.2.3.2.6.2. This training will provide guidance for the level of detail to be included in scientific notebooks. These meetings will be completed by November 30, 1994 and the issues discussed and personnel in attendance will be documented by memo to file in accordance with QAIP 2-5.

PAR 10/12/94


for L.E. Shephard 10/12/94

10/13/94 LTR. SHEPHARD TO SPENCE