

Department of Energy

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

JAN 18 1996

Robert W. Craig Acting Technical Project Officer for Yucca Mountain Site Characterization Project U.S. Geological Survey 101 Convention Center Drive Suite 860 Las Vegas, NV 89109

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EVALUATION OF SUPPLEMENTAL RESPONSE TO DEFICIENCY REPORT (DR) YMQAD-95-D017 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-95-20 OF U.S. GEOLOGICAL SURVEY (SCPB: N/A)

The YMQAD staff has evaluated the supplemental response to DR YMQAD-95-D017. The supplemental 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 that date.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Alan W. Rabe at 794-7042.

YMOAD:RBC-952

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosure: DR YMOAD-95-D017

102.7 102.7

Robert W. Craig

cc w/encl: J. G. Spraul, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV T. H. Chaney, USGS, Denver, CO

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cc w/o encl: W. L. Belke, NRC, Las Vegas, NV D. G. Sult, YMQAD/QATSS, Las Vegas, NV A. W. Rabe, YMQAD/QATSS, Las Vegas, NV

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RADIOACTIVE V U.S. DEPAR	E OF CIVILIAN WASTE MANAGEMI TMENT OF ENERGY INGTON, D.C.		<ul> <li>Performance Report</li> <li>Deficiency Report</li> <li>NO. YMQAD-95-D017</li> <li>PAGE 1 OF 2</li> <li>QA: L</li> </ul>	
PERFORMANCE	E/DEFICIENCY REPO			
1 Controlling Document: DOE/RW-0333P, Rev. 4				
3 Responsible Organization: US Geological Survey (USGS)	4 Discussed With: Warren Day, Tom Chaney	<i>.</i>	,	
<ul> <li>5 Requirement/Measurement Criteria:</li> <li>QARD III.2.1.A Scientific investigations shall be planned in acocrdance with Section 2.0 of the QARD.</li> <li>QARD 2.2.4 Planning shall be performed to ensure work is accomplished under suuitably controlled conditions.</li> <li>2.2.4.C Identification of applicable standards and criteria.</li> <li>QARD 2.2.2.B.3 The system shall provide positive control over external interfaces</li> <li>YLP-4.1Q-YMSCO Par. 5.1.1.e determines the applicability of QARD requirements to the scope of work that is defined in the Procurement Plan</li> </ul>				
The Technical Data Information Form (TDIF) GS950708314 of the PTn Hydrogeologic Unit, Yucca Mountain, Nevada" by because of the inclusion of some non-qualified borehole data. WBS is classified as Q by DOE and is also so classified in the (PACS). USGS also has classified this milestone as Q. The documents and in order for it to be used in subsequent activit copy of the TDIF as required by YAP-5.1Q. Therefore, DOE no documentation of any DOE change to the PACS requirem	y Moyer, Geslin, and Flint i Most of the supporting da e Participant Planning She report should be qualified a ies. The submittal of the re thad no formal notification	identifies that the task for the report in the Planners required by the port to DOE d	the report is not qualified rt is qualified. However, the ing and Control System the governing procurement id not include a completed	
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7 Initiator <u>Alan W. Rabe</u> 10 Response Due Date 20 working days after issuance	9 QA Review QAR Alan W. Rat 11 QA Issuance App QAR (PR)/AOQAM		Date <u>09/21/95</u>	
12 Remedial Actions: 13 Remedial Action Response By:	14 Remedial Action		~~~ (/* // K)	
Date		0016	Date	
15 Remedial Action Response Acceptance QAR Date	16 PR Verification/C QAR N/A	losure	Date	
Exhibit AP-16 10 1		Steele L	SURE Rev 07/03/95	

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	•		OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.		
*			DEFICI	ENCY REPORT	
	report. Sep 1. Upgrava 2. Clearing depender in 3. Excludin Alternal fa	show the report a tions are available ta in accordance w in the report whic e nonqualified data nqualified data from in written approval	s qualified. The provisito to correct the report qualith procedure xxxxx, h data is not qualified a n the report. of the nonqualified cla	ons of YAP-SIII.3Q, Par. 3.15 must be alification.: nd include an evaluation that states tha ssification from DOE.	•
			on and identify corrective	e actions as appropriate.	
	18 Inv A	Actions:			·
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	Acto Preci	ude Recurrence:			
	ponse by:	Que ind	backer	22 Corrective Action Completion	Due Date:
	See	amended	Date	See amended	
	conse Acce		Date	24 Response Accepted	/ Date
	the	oonse Accepted	Date 12/7/9 5	26 Amendal Bacabaca Mandata	Date 12.12.95
	ctive Acti	ons Verified		28 Closure Approved by:	
	16.10.2		Date	AOQAM	Date
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Block 12: Remedial Actions: None

**Block 18: Investigative Actions:** 

The Participant Planning Sheet in the Planning and Control System (PACS) states "QARD applies to this effort". This statement does not necessarily equate to the position that the product will be labelled "qualified" in the data tracking system. The work <u>was</u> done under the controls of the QA Program, one of which is YAP-SIII.3Q. The TDIF for the subject report was prepared under the guidance of YAP-SIII.3Q which states that developed data cannot be classified as "Qualified" if derived from unqualified data sources. The newly approved QARD (Revision 5, approved but not yet in effect) specifically states that unqualified data may be used without qualification in scientific investigations and design activities. See section III.2.5.A.

The USGS believes that it met the requirements of the PACS statement. If the requirements conveyed on the PACS Participant Planning Sheet do not meet the needs of DOE, then discussions should be initiated between DOE and the Participants to assure that the product requirements are clearly expressed in the planning sheets and that the two parties agree about their meaning.

Block 21: Response by:

for

Robert W. Craig, Acting Chief, Yucca Mountain Project Branch

10/26/95

Block 22: Corrective Action Completion Due Date: Not applicable

Exhibit AP-16.10.3 FRM00047.001 REV. 07/03/95

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## **PR/DR CONTINUATION PAGE**

**Response Evaluation:** 

The USGS has misunderstood the requirement of both the Participant Planning Sheet (PPS) in the Planning and Control System (PACS) and the AQRD requirements. Designation of the activity as having the QARD applicable in the PPS is the interface control established by DOE to have a qualified product delivered. The QARD has included provisions to allow work to proceed when not all items can be gualified. It then establishes the controls that are required in order for guality work to be properly documented and controlled. It does not give authorization to produce unqualified products which do not meet PPS requirements. Lessons Learned/Program Clarification No. 94-002 is useful to further understand the provisions established in the OARD. Please note the reference therein to AP-5.90 for qualifying existing data.

It should be noted that there are several options available when one is contemplating using unqualified existing data. These were delineated in Block 17. If it is felt that production of an ungualified report is in the best interests of the project, then DOE written approval and/or revision of the PPS can be accomplished. However, it is unacceptable to ignore quality interface requirements established as required by the QARD as delineated in Block 5.

Based on the above, this response is rejected.

Mark C. Upnan Mark C. TYWAN Mark C. Upnan Mark C. TYWAN Mark C. Upnan Physical Scientist 11/2/85

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#### AMENDED RESPONSE YMQAD-95-D017

Block 12 USGS will discuss the subject report with YMPO Assistant Manager for Scientific Programs to determine the appropriate actions. These actions will be provided to YMQAD as a supplemental response.

Block 14 12/15/95 (Supplemental response)

Block 18 The TDIF for the subject report was prepared in accordance with YAP-SIII.3Q, R0. No further root cause investigative is necessary.

This is not necessarily an isolated case. However, further extent of conditions or impact determination is not necessary to perform at this time, as the need for upgrading other reports to Q status will be identified in an individual basis as the licensing process evolves.

Block 19 N/A

Block 20 All FY 96 USGS Milestones will be prepared in accordance with the guidance provided in the 11/15/95 letter from Susan Jones to L. Dale Foust and Bob Craig re: U.S. Department of Energy Policy on Synthesis Reports and YAP-SIII.3Q, R1.

Block 21 Response by:

113:193

R. W. Craig, Acting Chief Yucca Mountain Project Branch

Block 22 N/A

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## SUPPLEMENTAL RESPONSE FOR YMQAD-95-D-017

Block 12 The USGS investigated the subject manuscript and the associated Technical Data Information Form to determine if it was feasible to consider the report conclusions to be qualified on the premise that any non-qualified data cited as source data were only used in a corroborative manner. It was determined that the lithostratigraphic data could be considered corroborative, however there were three additional points to be considered before the conclusions could be declared qualified. The three concerns are: 1) the report used the TOUGH code which was not qualified, 2) a developed data set cited as a source data was also not qualified, and 3) some physical properties data cited in the report are not to be used for site characterization. It is concluded that it is not practical to change the designation of the report conclusions from non-qualified to qualified. The USGS will request written approval from DOE of the non-qualified status.

- Block 14 January 30, 1996 (anticipated date of DOE approval)
- Block 21

Response by: R.W. Craig, Acting Chief Fer Yucca Mountain Project Branch

*12/20/95* Date

Block 22 NA

Exhibit AP-16.10.3 FRM00047.001 12/20/95 CRAIG TO SPENCE REV. 07/03/95