

Department of Energy

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

FEB 29 1996

Wesley E. Barnes, Project Manager, YMSCO, NV ATTN: James R. Compton, YMSCO, NV

EVALUATION OF RESPONSE TO DEFICIENCY REPORT (DR) YMQAD-96-D009 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-96-01 (SCPB: N/A)

The YMQAD staff has evaluated the response to DR YMQAD-96-D009. 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 Donald J. Harris at 794-7356.

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

YMQAD:RBC-1256

Enclosure: YMOAD-96-D009

cc w/encl:

J. G. Spraul, NRC, Washington, DC

S. W. Zimmerman, NWPO, Carson City, NV

Patricia Pytel, M&O, Las Vegas, NV D. S. White, M&O, Las Vegas, NV

E. R. Cooper, YMSCO, NV

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV

D. G. Sult, YMQAD/QATSS, Las Vegas, NV

D. J. Harris, YMQAD/QATSS, Las Vegas, NV

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PERFORMAN	ICE/DEFICIENCY REPORT		
1 Controlling Document: QARD DOE/RW-0333P, Revision 4, YAP2.2Q, Rev. 0/ICN	N 1, YAP2.6Q, Rev 0/ICN2	2 Related Report No. YM-ARP-96-01	
3 Responsible Organization: YMSCO			
5 Requirement/Measurement Criteria: 1) QARD, Supplement III, Section III.2.1, Planning Scient A. Scientific investigations shall be planned in accordance		D.	
B. Planning shall be coordinated with organizations providi	ing input to or using the resul	Its of the investigation	n.
C. Planning shall address provisions for determining the acc	curacy, precision, and repres	entativeness of resul	ts.
D. Planning documents shall meet the requirements of Sect Control."	ion 5.0, "Implementing docu	ments," and Section	6.0, "Document (Contd. Page 3)
 Contrary to the identified requirements identified as 1), (8.3.1.17.3.1) that is currently in place is obsolete. The Stude earthquake. This concept was abandoned by the Project over provides the project approach to assess fault displacement at Consequently, there is no current planning document in effer an updated Study Plan describing the projects approach to identified requirements identified as 4) Contrary to identified requirements identified as 4) The Participant Planning Sheet for P&S account 1.2 references studies 8.3.1.17.4.1 and 8.3.1.17.3.6 (prepared 12) 	dy Plan emphasizes the conce er 2 years ago. The Topical I nd vibratory Ground Motion ect at the time of the audit (10 dentify relevant earthquake so .3.2.8.3.1 USGS, PWBS Eler	ept of a 10,000 year of Report YMP/TR-002 Hazards at Yucca Mo/23/95) and work is ources.	cumulative slip 2 NP, dated June 1994, Iountain. not being controlled by t Earthquake Sources
Hoitistor D Monald & Ham	9 QA Review	. /	<u> </u>
Jeff McCleary Date 10/27/9		() Harris	Date 11/1/95
10 Response Due Date 20 working days from issuance	11 QA Issuance Approval QAR (PR)(AOQAM (DR)	a Panco	Date ///7/95
12 Remedial Actions:		- Spring	- 777
13 Remedial Action Response By: Date	14 Remedial Action Due Dat	N/A	Date
15 Remedial Action Response Acceptance OAR Date	16 PR Verification/Closure	N/A N/A	Date

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17 Recommended Actions: 1) Develop a Study Plan revision for 8.3.1.17.3.1 that reflects the current project approach to the identification of relevant earthquake sources in accordance with YAP 2.2Q, "Preparation, Review, Approval, and Revision of the Site Characterization Plan.							
2) Change the Participant Plant	ning Sheets for the	statement of w	vork to refi	ect the desired co	ontent of the	deliverable	:.
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18 Investigative Actions:	· · · · · · · · · · · · · · · · · · ·	·		<u> </u>			
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19 Root Cause Determination:							
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20 Action to Preclude Recurrence:							
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4-			•				
21 Response by:	7 .		22 Correction	Action Completion D	ue Date:		
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3 Response Accepted			24 Response	Accepted	Jol Vol	0	74 AI
DAR Massis	Date 2/2	2/96	ADDAMM	ablowald	MAN MAN	Date 2.	18,46
25 Amended Response Accepted	,		26 Amended	Response Accepted			
QAR 27 Corrective Action's Verified	Date		· AOQAMM	und hu	 _	Date	
			28 Closure A	pproved by:			
QAR	Date		AOQAMM	· ·		Date	

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2) OARD, Section 2.0, Quality Assurance Program.

QARD 2.2.2B Quality Assurance Program Documents

Affected Organizations shall establish quality assurance implementing documents applicable to the scope of work that translates QARD requirements in work processes.

- The system shall accommodate the size and location(s) of the organization, the organizational structure, and the nature of the work such that management processes will be carried out effectively.
- The system shall provide positive control over external interfaces between affected organizations and internal interfaces within an organization. An interface exists when one organization prescribes an activity or requirements to, or shares an activity or requirement with another organization.

QARD 2.2.4 Planning Work

Planning shall be performed to ensure work is accomplished under suitably controlled conditions. Planning elements shall include, as appropriate:

- A. Definition of the work scope, objectives, and a listing of the primary tasks involved.
- B. Identification of scientific approach or technical methods used to collect, analyze, or study results of applicable work.
- C. Identification of applicable standards and criteria.
- D. Identification and selective application, or development, of appropriate implementing documents.
- E. Identification of field and laboratory testing equipment, or other equipment.
- F. Identification of, or provisions for the identification of, required records and the recording of objective evidence of the results of the work performed.
- G. Identification or quality assurance program verification to overview the work performed of the product produced.
- H. Identification of prerequisites, special controls, environmental conditions, processes, or skills.
- I. Identifications of computer software
- 3) YAP 2.2Q, "Preparation, Review, Approval, and Revision of Site Characterization Plan Study Plans."
- 1.0 Purpose

This procedure assigns responsibility and provides a process so that Site Characterization Plan (SCP) DOE/RW-0199, Study Plans (SPs) are prepared, reviewed, approved, and revised in a consistent manner,. This procedure implements the 1993 U.S. Department of Energy (DOE)/Nuclear Regulatory Commission (NRC) Level of Detail Agreement and Review Process for SPs. Attachment 9.1, DOE Content Requirements for Descriptions of Studies in SCP Study Plans, cannot be changed without negotiation with the NRC. This procedure also implements applicable requirements of the Office of Civilian Radioactive Waste Management Quality Assurance Requirements and Description (QARD), DOE/RW-0333P.

3.0 Definitions

3.6 SPs - DOE documents that describe the studies, activities, tests, and analyses that constitute site characterization activities as defined by the Nuclear Waste Policy Act of 1982, Public Law 97-425, as amended. SPs describe in more detail the studies presented in Chapter 8 or the SCP and are designed to meet the objectives given in the YMP RD. Guidance on the level of detail, format and content of SPs is provided in Attachment 9.1, DOE Content Requirements for Descriptions of Studies in SCP Study Plans.

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4)	YAP 2.6Q,	Revision 1	ICN 2,	"Determination	of Quality	Affecting	Work."
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5.1 Technical and Quality Assurance (QA) Review

5.1.1 The AM/Director:

a) assigns a prepare to develop a PPS for each Planning and Scheduling (P&S) Account for which the AM/Director is responsible, to include a statement of work, and related planning information (i.e., scheduling and budgeting i information; determination of quality affecting work and application of QA controls (grading); the identification of technical and QA requirements for work determined to be quality affecting; and acceptance criteria that will be used by the YMSCO to determine the acceptability of the work) based on recommendations received from the appropriate Responsible Supplier and the most current YMSCO guidance pertaining to budget and schedule issues.

6.3 Procurement Quality Requirements

Specify the following procurement quality requirements as applicable to the affected statement of work. Enter this information in the statement of work on the PPS.

It is permissible to impose these requirements of the Responsible Supplier using the existing contract between the DOE and the Responsible Supplier. When the contract is used as the vehicle for imposing any or all of the applicable procurement quality requirements, the PPSs must provide traceability to the correct contract. Specify or reference; following as applicable to the item or service being procured:

- a) Technical requirements including:
- Specific documents (such as drawings, codes standards, regulations, study plans, procedures, or instructions) that describe the items or service to be furnished. The revision level or change status of these documents or the "latest approved version," shall also be identified.

Block 6 continued

b) USGS contract 1434-93-C-90070 to the Board of Regents, UCCSN, University of Nevada, Reno, dated 10/1/93 and contract modification 2, dated 10/1/93 still references Study Plan activity 8.3.1.17.4.1.2, "Monitor Current Seismicity," and Study Plan Activity 8.3.1.17.4.1.3, "Evaluate Potential for Enduced Seismicity and the Site." (NOTE: effective 9/30/95 this contract was terminated by USGS). The contract was not modified to reflect the desired content of the deliverable (Reference DR Block 6, Item 1).

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Study Plan:

As indicated in the deficiency report, Study Plan 8.3.1.17.3.1 Rev. 0 is inconsistent with Seismic Topical Report #1 that was submitted to the NRC in June 1994. Recognizing this, AMSP initiated Revision 1 to Study Plan 8.3.1.17.3.1 in 1994 so that a revised Study Plan could be issued following NRC acceptance of the Topical Report for review.; however final release of Rev. 1 was delayed until the NRC accepted the Topical Report for review. In a letter dated Sept. 22 1995 the NRC finally informed DOE that their concerns had been satisfactorily addressed and that the Topical Report was accepted for review. Since that time the the study plan revision process has been moving forward and we anticipate completing the process of DOE approval of study Plan 8.3.1.17.3.1 Rev. 1 by April 12, 1996.

Participant Planning sheets:

No change is required. The FY 95 deliverable identified in the Deficiency report has been received and accepted by DOE. Reference to Study Plan 8.3.1.17.4.1in the criteria statement was to identify one source of the data to be compiled in this deliverable report. No modification to the UNR contract was required Information gained from the Little Skull Mountain earthquake, for example, collected as part of the "monitor current seismicity" activity in Study Plan 8.3.1.17.4.1 was included in the deliverable. No FY 96 work was authorized in this WBS element.

Exhibit AP-16.1Q.3

Rev. 07/03/95

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