TO: K. HOOKS



**Department of Energy** 

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

WBS 1.2.9.3 QA

MAY 29 1991

Richard J. Herbst Technical Project Officer for Yucca Mountain Site Characterization Project Los Alamos National Laboratory University of California N-5, Mail Stop J521 P.O. Box 1663 Los Alamos, NM 87545

EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR) YM-91-041 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT 91-03 OF LOS ALAMOS NATIONAL LABORATORY

The YMQAD staff has evaluated the response to CAR YM-91-041. The response has been determined to be satisfactory. However, it is requested that monthly status be reported to this office based upon numerous target commitment dates provided. Monthly status reports should be provided starting at the end of July 1991. Verification of completion of the corrective action will be performed after the effective dates provided. Any extension to committed dates must be requested in writing with appropriate justification prior to the date. Please send a copy of extension requests to Nita J. Brogan, Science Applications International Corporation, Las Vegas, Nevada.

If you have any questions, please contact either Catherine E. Hampton at (702) 794-7973 or FTS 544-7973, or John S. Martin at (702) 794-7881 or FTS 544-7881.

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Donald G. Horton, Director Yucca Mountain Quality Assurance Division

YMOAD: CEH-3889

Enclosure: CAR YM-91-041

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•		MENT NY NY NY NY NACAR NO.: <u>YM-91-041</u> 04/01/91 SHEET: <u>1</u> OF <u>2</u> QA WBS No.: <u>1.2.9.3</u>				
	CORRECTIVE ACTION REQUEST					
	1 Controlling Document LANL-YMP-QAPP, Rev. 5		2 Related Report No. Audit No. 91-03			
	3 Responsible Organization Los Alamos National Laboratory		4 Discussed With R. Herbst, S. Boli	Discussed With L. Herbst, S. Bolivar		
	10 Response Due 30 Days From Issue	11 Responsibility for C R. Herbst		12 Stop Work Order Y or N No		
	<ul> <li><sup>5</sup> Requirement: LANL-YMP-QAPP, Rev. 5, Sect. 1.2 states in part: " Implemmentation of the requirements of the QAPP shall be accomplished through quality implementing procedures (QPs)" LANL-YMP-OP-6.2, Rev. 0 "Preparation, Review and Approval of Quality Administrative Procedures, Para. 4.4 states: "QPs are documents that describe the methods used to conduct LANL YMP activities that affect quality. QPs implement the QA program requirements of the LANL QAPP."</li> <li><sup>6</sup> Adverse Condition: QAPP requirements are not being consistently reflected in QPs. DISCUSSION: The following representative examples illustrate the adverse condition.</li> <li>1. LANL-YMP-QAPP, Rev. 5, Section 15.5.3 states in part, "Persons responsible for dispositioning the NCR shall ensure that the following requirements are metThe disposition shall document action needed to preclude recurrence of the nonconforming condition." Los Alamos QP TWS-QAS-QP-15.2, Rev. 1, "Deficiency Reporting" only requires documentation of actions to preclude recurrence of significant conditions adverse to quality (i.e., the QP does not require documentation of action needed to preclude recurrence of all nonconforming conditions).</li> </ul>					
	<ul> <li>7 Recommended Action(s):</li> <li>1. Take necessary action to resolve the representative examples identified in the CAR.</li> <li>2. Investigate to determine the extent of inconsistencies and resolve all inconsistencies found.</li> <li>3. Evaluate results of investigation to determine if preventative action is necessary.</li> </ul>					
	·8 Initiator Dat J.S. Harrin and 04/01/2 J.M. Sove REfore		- 13 Approved By	: Date: Blaylost fn <u>1/3/9/</u>		
	15 Vefification of Corrective Action	<b>h</b>				
	16 Corrective Action Completed	and Accepted:	17 Closure Approv	ed By:		
	QAR	Date	OQA			

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ENCLOSURE

	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.				
CORRECTIVE ACTION REQUEST (continuation sheet)					
6 Adv	erse Condition (continued)				
2.	LANL-YMP-QAPP, Rev. 5, Section 7.1.3 "Bid Evaluation" states in part, "Bid evaluation shall determine the extent of conformance to the procurement documents. The evaluation, by the designated organizations, shall consider the following, as applicable to the type of procurement:				
·	<pre>o technical considerations o QA requirements o personnel o production capabilities o past performance o alternatives o exceptions</pre>				
	Los Alamos QP LANL-YMP-QP-04.5, Rev. 0, "Procurement of Noncommercial-Grade Items and Services," Para. 6.2.1 limits the evaluation of supplier's capability to provide an item or service in accordance with the technical and QA requirements of the procurement documents. (i.e., Personnel, production capabilities, past performance, alternatives, and exceptions are not addressed in the QP.)				
3.	3. LANL-YMP-QAPP, Rev, 5, Section 7.1.6, "Control of Documents Generated by Suppliers," states, "Documents generated by suppliers shall be submitted in accordance with requirements of the procurement documents and shall be handled, approved, and controlled according to LANL QPs for document control. The documents shall be evaluated against the criteria for procurement acceptance."				
	Los Alamos QP LANL-YMP-QP-04.5, Rev. 0, "Procurement of Noncommercial-Grade Items and Services" does not address this section of the QAPP.				
4. LANL-YMP-QAPP, Rev. 5, Section 2.2.2, "Use of Data Not Generated Under Quality Assura Controls," states in part, "For use in licensing activities, the QA Program for the D provides some data or data integrations that were not generated under a program that the requirements of 10 CFR 60, Subpart GA LANL QP shall be prepared to implement t requirements"					
	No Los Alamos QP could be found that addresses this subject.				
5.	LANL-YMP-QAPP, Rev. 5, Section 2.5.2, "Indoctrination" states in part, "Personnel assigned to perform activities affecting quality shall first be indoctrinated to the purpose, scope, methods of implementation, and applicability of the following documents (including revision: and changes) as they relate to the work to be accomplished:				
	<ul> <li>QAPPs</li> <li>implementing procedures and work instructions (applicable to the individual's responsibilities)</li> <li>regulations, and</li> <li>Project-level documents"</li> </ul>				
	LANL-YMP-QAPP, Rev. 5, Section 3.1.1, "Preparation of Scientific Investigation Planning Documents," states in part, "Scientific investigations affecting quality shall be planned and documented to ensure a systematic approach"				
	No QP or group of QPs could be found that clearly addresses control of activities performed by personnel who are not assigned to the YMP.				
	e.g. In support of a publication, (Eus. J. Mineral, 1990, 2, 771-777, Long-term Thermal Stability of Clinoplilolite: The Development of a "B" Phase, by David L. Bish), a Los Alamos employee not assigned to the YMP performed an analysis. No objective evidence				

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CORRECTIVE ACTION REQUEST (continuation sheet)

CAR YM-91-041

A. EXTENT - NA

B. ROOT CAUSE

We will matrix existing Quality Procedures (QPs) with the revised Quality Assurance Program Plan (QAPP) to bound the problem identified in CAR-041. We will then make a root cause determination. This will be completed 30 days after YMQAD acceptance of the revised QAPP.

C. REMEDIAL ACTION

The QAPP will be revised for compliance with the latest revision of the Quality Assurance Requirements Document (QARD) and paragraphs, or sections, needing revision will be identified. This effort will take 3 months; estimated date of completion will be July 30, 1991.

The QAPP will be revised and submitted to YMQAD for approval by September 30, 1991.

Existing QPs will be matrixed against the new QAPP. Any QPs that need to be revised to meet QAPP requirements will be identified and scheduled for revision. This task will be completed by October 15, 1991.

An evaluation will be made on a case by case basis regarding the need to stop work until affected QPs are revised.

Training to the new QAPP will commence after YMQAD acceptance. Training to revised QPs will be on a case by case basis, as needed.

The responsible individual for rewriting and obtaining approval for the new QAPP will be S. Bolivar, the QAPL. The individual responsible for training to the new QAPP will be Karen West (acting Training Coordinator).

The specific problems identified in the five representative examples (listed in the CAR) will be resolved by the above actions. Specifically:

1. Example 1 in CAR-041 is a QAPP over commitment. The QP 15.2 (Deficiency Reporting) meets QARD/NQA-1 requirements and the QAPP went beyond these requirements. The QAPP will be revised as per the time schedule described above.

After the QAPP revision is accepted by the YMQAD, it will be matrixed against QP 15.2. A revision to QP 15.2, if necessary, will be completed after the QAPP has been accepted by YMQAD.

At dtd 5/5/91 - TWS - EES - 13 - 05 - 91 - 029

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2. QP 4.5 will be revised to create a section titled Bid Evaluations. The evaluation of bid evaluations will include technical considerations, QA requirements, personnel, production capabilities, past performance, alternatives and exceptions. A QP Action Request to withdraw QP 4.5 will be submitted by May 15. The QP will be revised by July 30, 1991.

Since there have been no procurements requiring bid evaluations, there has been no impact on the quality program.

3. To resolve example 3, the QAPP will be revised. In section 7.1.6 of the QAPP, 'documents' will be changed to 'quality-affecting documents'. The revised QAPP will be submitted to the YMQAD by September 30, 1991.

QP 4.5 will be revised to address this section of the QAPP. A QP Action Request to withdraw QP 4.5 will be submitted by May 15. The QP will be revised by July 30, 1991.

4. The QAPP requires a QP be written to handle the use of data not generated under QA controls. Since no LANL personnel have attempted to qualify this type of data, the lack of a procedure has had no impact on the LANL QA program. The QAPP will be revised to identify that LANL personnel will follow the appropriate AP or APQ. The revised QAPP will be submitted to the YMQAD by September 30, 1991.

5. Example 5 states that no QP exists that addresses control of activities performed by personnel who are not assigned to the YMP. QP 2.5 (Selection of Personnel) will be revised by July 30, 1991 to address this issue. Until this procedure is rewritten, personnel not assigned to the YMP will not be allowed to conduct quality-affecting work on YMP.

D. CORRECTIVE ACTION TO PREVENT RECURRENCE

The requirement to matrix is in the QARD, R4, paragraph 2.7. This will be addressed in the revised QAPP, which will be submitted to the YMQAD by September 30, 1991.

M CAR 041 Response Approved QAPL Bolivar LANL Da CAR 041 Response Approved A PO Herbst 5-17-91 CAR 041 Response Approved MON Date 5.1.4 QAR 5-12-9 ( REV. 10/00 **Response Approved** YMDAD

Richard J. Herbst

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cc w/encl: K. R. Hooks, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV S. L. Bolivar, LANL, Los Alamos, NM Michael Clevenger, LANL, Los Alamos, NM J. L. Day, LATA, Los Alamos, NM

cc w/o encl:

J. B. Tillman, LAAO

J. W. Hines, OQD, AL

A. R. Chernoff, MSD, AL

J. W. Gilray, NRC, Las Vegas, NV

N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08