



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

WBS 1.2.11  
 QA: N/A

**MAR 18 1993**

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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST  
 (CAR) YM-93-012 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION  
 (YMQAD) AUDIT YMP-93-01 OF U. S. GEOLOGICAL SURVEY

The YMQAD staff has verified the corrective action to CAR YM-93-012 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at 794-7945 or James Blaylock at 794-7913.

Richard E. Spence, Director  
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-3151

Enclosure:  
 CAR YM-93-012

cc w/encl:

- ~~K. R. Hooks, NRC, Washington, DC~~
- ~~S. W. Zimmerman, NWPO, Carson City, NV~~
- T. H. Chaney, USGS, Denver, CO
- R. W. Craig, USGS, Las Vegas, NV
- R. L. Maudlin, MACTEC, Las Vegas, NV
- B. J. Verna, YMP, NV
- A. V. Gil, YMP, NV

cc w/o encl:

- J. W. Gilray, NRC, Las Vegas, NV
- N. J. Brogan, SAIC, Las Vegas, NV
- D. D. Porter, SAIC, Golden, CO

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ADD: Ken Hooks

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

8 CAR NO.: YM-93-012  
DATE: 10-23-92  
SHEET: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST**

1 Controlling Document YMP-USGS-QMP-7.01 Rev. 4		2 Related Report No. YMP-93-01	
3 Responsible Organization USGS		4 Discussed With W. Causseaux	
5 Requirement: QMP 7.01, R4-M2 Para. 5.1.4 allows project personnel to use vendors not on the approved vendors list subject to conditions. These conditions include: 1. Addition to the QA office working vendors list by the QA Manager, and 2. A Nonconformance Report shall be written if the vendor is not qualified for the Approved Vendors List within 60 calendar days of addition to the working vendors list.			
6 Adverse Condition: Contrary to the above 1. There is no QA office working vendors list, and 2. A Nonconformance Report has not been issued after the QA Manager agreed by memo to allow the use of a vendor on July 23, 1992, and the vendors has not been added to the Approved Vendors List.			
9 Does a significant condition adverse to quality exist? Yes ___ No <u>X</u> If Yes, Circle One: A B C		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 D	
11 Response Due Date: 20 working days from issuance			
12 Required Actions: <input checked="" type="checkbox"/> Remedial <input type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input checked="" type="checkbox"/> Root Cause Determination			
13 Recommended Actions:			
7 Initiator J. Blaylock and C. Prater <i>J. Blaylock 10/25/92</i>		14 Issuance Approved by: QADD <i>R.C. Spruce</i> Date <i>11/3/92</i>	
15 Response Accepted QAR Date		16 Response Accepted QADD Date	
17 Amended Response Accepted QAR <i>J. Blaylock</i> Date <i>1/21/93</i>		18 Amended Response Accepted QADD <i>R. Blaylock</i> for. Date <i>01-26-93</i>	
19 Corrective Actions Verified QAR <i>J. Blaylock</i> Date <i>3/1/93</i>		20 Closure Approved by: QADD <i>R. Blaylock</i> Date <i>3/1/93</i>	

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CAR NO. YM-93-012  
DATE: \_\_\_\_\_  
SHEET: \_\_\_\_\_ OF \_\_\_\_\_

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

**1. CORRECTIVE ACTION RESPONSE FOR CAR No. YM-93-012:**

- A. Remedial Action:** 1. No remedial actions are necessary (see corrective actions to preclude recurrence).
2. Initiation of a new Nonconformance Report (NCR) is not warranted at this time. An existing nonconformance report USGS-NCR-92-23 already documents the deficiency for which the vendor was suspended. All usage of the vendor since April 1991 is being evaluated under USGS-NCR-92-23. The results of this evaluation and additional remedial actions, if any, will be outlined in a supplemental response.
- B. Investigative Action:** Not requested.
- C. Root Cause Determination:** 1. The usage of the working vendors list was unclear. The original intent was to track the evaluation of potential vendors, the re-evaluations of approved vendors, and conditionally approved vendors not on the AVL. More useable systems have been developed to track these separate categories independently.
2. The formality of initiating a NCR was not fulfilled. An internal nonconformance report covering Li-Cor procurements had already been initiated and response development was underway. Therefore the QA Office personnel involved with tracking the evaluation/approval based upon the 7/23 memo did not recognize a need for another NCR.
- D. Corrective Action to Preclude Recurrence:** 1. The requirement for a working vendors list is being deleted from QMP-7.01.
2. QA Office personnel through working with this deficiency have been reminded to follow the requirements of QMP-7.01, R4 para.5.1.4.

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WASHINGTON, D.C.

CAR NO. YM-93-012  
DATE: \_\_\_\_\_  
SHEET: \_\_\_\_\_ OF \_\_\_\_\_

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

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

A. Remedial Action:

1. NA

2. 12-16-92 -- K.W.Causseaux will be responsible for completion of the evaluation of calibration documentation and the determination of impact.

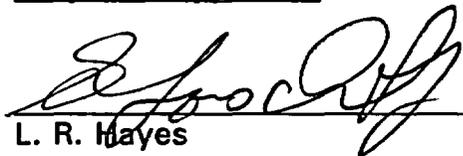
12-23-92 -- T.H.Chaney and L.R.Hayes will be responsible for providing a supplemental response to YMQAD.

D. Corrective Action to Preclude Recurrence:

1. 1-4-93 (expected effective date) -- A.E. Lykins is responsible for initiating change to QMP-7.01, R4.

2. 12-1-92 -- A.E.Lykins and T.H.Chaney have been reminded of QMP requirements for initiating NCRs.

3. Response Approved:

  
\_\_\_\_\_  
L. R. Hayes  
For Chief, Yucca Mountain Project Branch

12/1/92  
Date

  
\_\_\_\_\_  
T. H. Chaney  
YMP-USGS Quality Assurance Manager

12/1/92  
Date

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

CAR NO. YM-93-012

DATE: 1/6/93

SHEET: OF

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

**1. CORRECTIVE ACTION RESPONSE FOR CAR No. YM-93-012:**

- A. **Remedial Action:** 1. No remedial actions are necessary (see corrective actions to preclude recurrence).
2. Initiation of a new Nonconformance Report (NCR) is not warranted at this time. An existing nonconformance report USGS-NCR-92-23 already documents the deficiency for which the vendor was suspended. All usage of the vendor since April 1991 has been evaluated under USGS-NCR-92-23 and corrected if necessary.
- B. **Investigative Action:** Not requested.
- C. **Root Cause Determination:** 1. The application and the maintenance of the working vendors list was not clearly defined in QMP 7.01.
2. The formality of initiating a NCR was not fulfilled. An internal nonconformance report covering Li-Cor procurements had already been initiated and response development was underway. Therefore the QA Office personnel involved with tracking the evaluation/approval based upon the 7/23 memo did not recognize a need for another NCR.
- D. **Corrective Action to Preclude Recurrence:** 1. The requirement for a working vendors list is being deleted from QMP-7.01. The method of tracking the evaluations and suitability of vendors is now a pending file, maintained by vendor name, which includes: the requests for evaluating vendors, notices to vendors that they will be evaluated, results of the evaluations including whether a vendor is or is not qualified and/or what requirements must be met in order to become qualified, and any corrective actions taken by a vendor to become approved for the AVL. The pending file is a working file maintained by the QA Staff and includes a tickler system for tracking activities. Vendor evaluations are audits, surveillances, or desk evaluations.
2. QA Staff, including QA implementation specialists in the field, have been advised to comply with the current QMP 7.01. Upon approval and publication of the revision QMPs 4.01 and 7.01, all personnel involved with using vendors' services will be trained.

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CAR NO. YM-93-012  
DATE: 1/6/93  
SHEET:      OF     

**CORRECTIVE ACTION REQUEST**  
(continuation sheet)

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

A. Remedial Action:

1. NA

2. 12-31-92 -- USGS-NCR-92-23 was verified by Dan Valega and closed.

D. Corrective Action to Preclude Recurrence:

1. 1-29-93 (anticipated approval date) -- A.E. Lykins is responsible for initiating change to QMP-7.01, R4.

2. 12-1-92 -- A.E.Lykins and T.H.Chaney have been reminded of QMP requirements for initiating NCRs.

3. Response Approved:



L. R. Hayes

1/6/93  
Date

For Chief, Yucca Mountain Project Branch



T. H. Chaney

1/6/93  
Date

YMP-USGS Quality Assurance Manager

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RADIOACTIVE WASTE MANAGEMENT  
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CAR NO. YM-93-012  
DATE: 03/11/93  
PAGE: \_\_\_\_\_ OF \_\_\_\_\_  
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**CORRECTIVE ACTION REQUEST (Continuation Page)**

VERIFICATION OF CAR YM-93-012

USGS revised QMP-7.01 to remove the requirement of maintaining a working vendor's list, and hence the requirement for initiation of a Nonconformance Report is no longer applicable. The effective date for the revised procedure is April 9, 1993.

James Blaylock  
James Blaylock

3/11/93  
Date