



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

NOV 08 1995

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

EVALUATION OF RESPONSE TO DEFICIENCY (DR) YMQAD-95-D016 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 preliminary response to  
DR YMQAD-95-D016. 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 (702) 794-7945 or Kenneth O. Gilkerson at  
(702) 794-7738.

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:RBC-439

Enclosure:  
DR YMQAD-96-D016

cc w/encl:

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

cc w/o encl:

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

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Robert W. Craig

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bcc w/encl:

K. O. Gilkerson, YMOAD/QATSS, Las Vegas, NV

J. R. Summerson, YMSCO, NV

S. B. Jones, YMSCO, NV

D. R. Williams, YMSCO, NV

E. R. Cooper, YMSCO, NV

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

8  Performance Report  
 Deficiency Report  
NO. YMQAD-95-D-016  
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**PERFORMANCE/DEFICIENCY REPORT**

1 Controlling Document:  
DOE/RW QARD-0333P Revision 4

2 Related Report No.  
YM-ARP-95-20

3 Responsible Organization:  
USGS/LBL

4 Discussed With:  
Tom Chaney/Martha Mustard

5 Requirement/Measurement Criteria:  
Section 2.2.11 states "Each organization shall establish a program for the evaluation, selection, indoctrination, training, and qualification of personnel performing work subject to QARD requirements. The program shall:...H. Ensure the required indoctrination and training for a specified task is completed prior to performing the task."

6 Description of Condition:  
Contrary to the above, a number of LBL personnel working to the USGS QA program under a MOA until July, 1995 were not trained and/or indoctrinated as required. The following LBL personnel were not trained to USGS procedures:  
R. Ahlers- Not trained or indoctrinated to the USGS QA program procedures  
M. Bandurraga- Not trained or indoctrinated to the USGS QA program procedures  
Z. Aunzo-Indoctrinated to YMP but not to any USGS procedures.  
C. Haukwa--Indoctrinated to YMP but not to any USGS procedures.  
Y. Wu- Not trained to USGS procedure QMP 5.05 although individual is responsible for keeping the scientific notebook  
  
NOTE: The MOA identifies all job tasks to LBL as requiring QARD controls. The MOA specifically requires all document reviews to be performed in accordance with USGS procedure QMP-3.04

7 Initiator:  
*K.O. Gilkerson*  
K.O. Gilkerson Date 09/18/95

9 QA Review:  
*K.O. Gilkerson*  
QAR K.O. Gilkerson Date 09/18/95

10 Response Due Date  
20 working days after issuance

11 QA Issuance Approval:  
*R.C. [Signature]*  
QAR (PRVAOQAM) [Signature] Date 9/27/95

12 Remedial Actions:

13 Remedial Action Response By:  
Date

14 Remedial Action Due Date  
Date

15 Remedial Action Response Acceptance  
QAR Date

16 PR Verification/Closure  
QAR Date

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**DEFICIENCY REPORT**

**17 Recommended Actions:**

Determine if other LBL and subcontractor personnel assigned to perform tasks under the USGS program are appropriately trained and indoctrinated. Evaluate the work (tasks) performed by untrained personnel to determine adequacy of work and the impact of the personnel not being trained. Identify cause for noncompliance. Present corrective action and any remedial actions based on extent of deficiency.

**18 Investigative Actions:**

*See USGS Correspondence dated 10/26/95 from Craig to Spence  
re: YMQAD-95-D-016 and PR/OR continuation page.*

**19 Root Cause Determination:**

**20 Action to Preclude Recurrence:**

21 Response by: *attached  
Correspondence  
R Craig per dated 10/26/95* Date

22 Corrective Action Completion Due Date: *1/30/95*

23 Response Accepted *R. Silburn (Preliminary Response)  
10/31/95* Date

24 Response Accepted  
AOQAM *AC Spence* Date *11/7/95*

25 Amended Response Accepted  
QAR Date

26 Amended Response Accepted  
AOQAM Date

27 Corrective Actions Verified  
QAR Date

28 Closure Approved by:  
AOQAM Date

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- Performance Report  
 Deficiency Report

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QA:L

PR/DR CONTINUATION PAGE

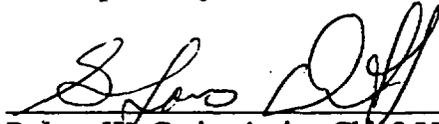
Block 12: Remedial actions:

An investigation into the status of training for LBNL personnel working for the USGS is in process with the results expected by November 17, 1995. A supplemental response will be submitted by November 30, 1995 to address the remedial actions, the impact, and the cause.

Block 18: Investigative Actions:

An investigation into the status of training for LBNL personnel working for the USGS is in process with the results expected by November 17, 1995. A supplemental response will be submitted by November 30, 1995 to identify the remedial actions, the impact, and the cause.

Block 21: Response by:



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

10/26/95  
Date

Block 22: Corrective Action Completion Due Date:

November 30, 1995

10/26/95 CRAIG TO SPENKE