



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

MAR 21 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

EVALUATION OF VERIFICATION INFORMATION FOR DEFICIENCY REPORT
(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 verification information for DR YMQAD-95-D016. The response has been determined to be unsatisfactory because the extent of the deficiency, the cause, and corrective actions to preclude recurrence are not addressed.

An amended response is required to be submitted to this office within ten working days of the date of this letter. Send the original of your response to Deborah G. Sult, YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109. If an extension to the due date is necessary, it 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 Kenneth T. McFall at 794-7280.

Robert B. Constable

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1386

Enclosure:
DR YMQAD-95-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
K. T. McFall, YMQAD/QATSS, Las Vegas, NV
D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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

8 ☐ Performance Report
☒ Deficiency Report
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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 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 Initiated:

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. Hance
QAR (PRVADQAM (BPR

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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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: *11/30/95*

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

24 Response Accepted
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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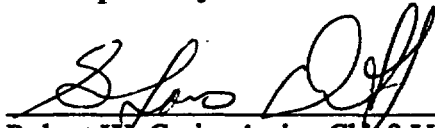
Block 12: Remedial actions:

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 SPENCE

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Block 22: Corrective Action Completion Due Date: 2/15/96

Of the individuals cited in the deficiency, only M. Bandurraga and Y. Wu performed quality affecting work which would warrant appropriate training.

M. Bandurraga's quality affecting work consisted of writing minor modifications to the report "Preliminary Development of the LBL/USGS Three-Dimensional Site Model of Yucca Mt., NV", in response to DOE & the M&O's comments. Qualification records per YMP-USGS QMP-2.08 indicate that this individual was adequately qualified to perform the task. Training or indoctrination to the USGS QA program procedures, while not documented for M. Bandurraga has been determined as not being necessary because he has now been trained to comparable LBNL QA program elements and the report is considered preliminary.

Y. Wu's quality affecting work related to Scientific & Engineering Software. This individual received the appropriate training i.e., YMP-USGS QMP-3.03 - Software. While this individual did not receive training in YMP-USGS QMP-5.05 - Scientific Notebook, the QA Office is of the opinion that the necessary training for the specific quality affecting work performed was adequate.

Discussions and correspondence with LBNL QA management, and review of records have identified the LBNL personnel performing quality affecting work while under the auspices of the YMP-USGS QA Program. The appropriate training and qualification records were verified and it was determined that there was no negative impact on the work performed.



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

2/20/96
Date

2/20/96 CRHIG TO SPENCE