



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

MAY 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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF 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 verified the corrective action to DR YMQAD-95-D016
and determined the results to be satisfactory. As a result, the DR is
considered closed.

If you have any questions, please contact either Robert B. Constable at
794-5580 or Kenneth T. McFall at 794-5470.

for 
Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1744

Enclosure:
CAR 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
Records Processing Center

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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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 Initiated:

 K.O. Gilkerson Date 09/18/95

9 QA Review:

 OAR K. O. Gilkerson Date 09/18/95

10 Response Due Date
20 working days after issuance

11 QA Issuance Approval:

 OAR (PRV) OAM (DPA) Date 9/27/95

12 Remedial Actions:

13 Remedial Action Response By:
 N/A Date

14 Remedial Action Due Date
 N/A Date

15 Remedial Action Response Acceptance
 OAR N/A Date

16 PR Verification/Closure
 OAR N/A 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: <i>Structure Correspondence & Craig per dated 10/26/95</i> Date	22 Corrective Action Completion Due Date: <i>11/30/95</i>
23 Response Accepted <i>R. Silburn (Preliminary Response)</i> Date <i>10/31/95</i>	23 Response Accepted
QAR <i>Kenneth McFall</i> Date <i>4-11-96</i>	AOQAM <i>AC King</i> Date <i>11/7/95</i>
25 Amended Response Accepted	26 Amended Response Accepted
QAR <i>Kenneth McFall</i> Date <i>4-11-96</i>	AOQAM <i>AC King</i> Date <i>4/17/96</i>
27 Corrective Actions Verified	28 Closure Approved by:
QAR <i>Kenneth McFall</i> Date <i>5.2.96</i>	<i>AC King</i> Date <i>5/20/96</i>

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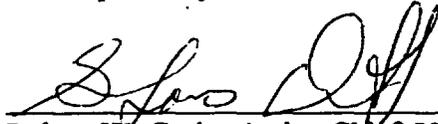
Block 12: Remedial actions:

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:



RC
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

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AMENDED RESPONSE YMQAD-95-D016

Block 12 Remedial Actions:

None required other than as stated in the investigative actions.

Block 14 Remedial Action Due:

N/A

Block 18 Investigative Actions:

The extent of this deficiency was determined to be minimal and with no significant impact on quality or data as determined through internal surveillance YMP-USGS-96003-IS.

Correspondence from LBNL indicates that there are no other personnel who have performed quality affecting work that are not already entered into our system. All LBNL individuals performing quality affecting work for YMP-USGS were identified and training records verified. Only M. Bandurraga and Y. Wu were identified as having had performed quality affecting work which would warrant appropriate training.

M. Bandurraga's quality affecting work consisted of writing minor modifications to the "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 as the individual did not implement or submit scientific notebooks per YMP-USGS QMP-5.05.

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AMENDED RESPONSE YM2QAD-D016 (Continued)

Block 19 Root Cause Determination:

Oversight and lack of attention given to task was the cause of this deficiency.

Block 20 Action to Preclude Recurrence:

There are no planned actions by the YMP-USGS to preclude recurrence as LBNL is now performing work under their own QA program and under direct oversight of the M&O.

Block 21 Response by:

R.W. Craig

R.W. Craig, Chief, Yucca
Mountain Project Branch

Date 4/4/96

Block 22 Corrective Action Completion Due Date:

N/A

VERIFICATION STATEMENT FOR DR YMOAD-96-D016

Based on the additional verification information submitted to YMQAD in the letter from Craig to Spence, dated 4/3/96, and supported by training records of M. Bandurraga and Y. Wu faxed from Don Mangold of LBNL to Kenneth McFall on 5/7/96, this DR is considered closed. This information also included the extent of the deficiency and the fact that LBNL is now working to their own program and not USGS's.

Kenneth T. McFall
Kenneth T. McFall, QAR

5-9-96
Date