



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

NOV 01 1996

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 Site Characterization Project
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 101 Convention Center Drive
 Las Vegas, NV 89109

ISSUANCE OF DR YM-97-D-005 AND YM-97-D-006 RESULTING FROM YMQA SURVEILLANCE YMP-SR-96-028

Enclosed are Deficiency Reports (DR) YM-97-D-005 and YM-97-D-006, generated as a result of Yucca Mountain Quality Assurance Surveillance YMP-SR-96-028.

Please provide a response to this deficiency that meets the applicable requirements of Administrative Procedure 16.1Q, Performance/Deficiency Reporting. Send the original of your responses to Deborah Sult, YMQA/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada 89193-8608. Responses to the DRs are due 20 working days from the date of this letter. Extensions to due dates must be requested in writing with appropriate justification prior to the due date.

If you have any questions, please contact either Mario R. Diaz at (702) 794-1489 or John R. Doyle at (702) 794-1465.

Richard E. Spence
 Yucca Mountain Quality Assurance

YMQA:MRD-0212

Enclosure:
 DRs YM-97-D-005 and
 YM-97-D-006

cc w/encl:
 T. A. Wood, DOE/HQ (RW-55) FORS
 J. G. Spraul, NRC, Washington, DC
 S. W. Zimmerman, NWPO, Carson City, NV
 B. R. Justice, M&O, Las Vegas, NV
 Records Processing Center

cc w/o encl:
 W. L. Belke, NRC, Las Vegas, NV
 D. G. Horton, DOE/OQA, Las Vegas, NV
 J. R. Doyle, YMQA/QATSS, Las Vegas, NV
 D. G. Sult, YMQA/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
NO. YM-97-D-005
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: Quality Assurance Requirements and Description (QARD) DOE/RW-0333P, Rev 5	2 Related Report No. YMP-SR-96-028
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3 Responsible Organization: CRWMS M&O	4 Discussed With: Andrew Burningham, Ned Elkins
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5 Requirement/Measurement Criteria:
QARD Subsection 2.2.10 Document Review Para. 2.2.10 E 1 states :

"Each organization or technical discipline affected shall review the document according to the established review criteria. Changes to the document shall be reviewed by those organizations or technical disciplines affected by the change."

In addition, Para. 2.2.10 E 2 States " The Affected Organizations QA organization shall review implementing documents that translates the QARD into work processes as described in subsection 2.2.1, Quality Assurance Program Documents. The QA organization shall also review changes to documents if they reviewed the previous version, regardless of whether the QA organization is affected by the change. "

6 Description of Condition:

1. Contrary to the above requirements, Field Work Package FWP-ESF-96-003 R.1 "Thermal Testing in the Exploratory Studies Facility - Phase I " calls out the specific scope definitions for the ESF Constructor to provide underground labor, and equipment to conduct scientific test operations in the Thermal Test Facility. Kiewitt/Parsons Brinkerhoff (K/PB) QA was not included in the FWP review and approval process.

2. FWP-ESF-96-003 para. 3.1 states " ... The sequence of Q activities may be modified by the ESF TCO FTC based on conditions in the field, provided those modifications are documented". Thereby not affording affecting organizations the opportunity to review changes.

7 Initiator John R. Doyle <i>John R. Doyle</i> Date 10/18/96	9 Is condition an isolated occurrence? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown; Must be Yes if PR
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10 Recommended Actions: (Not required for PR)

Include K/PB in the review and approval process of FWPs Review existing FWPs to determine if there is an impact on quality affecting activities. Revise FWP process to preclude adverse condition item 2.

11 QA Review QAR John R. Doyle <i>John R. Doyle</i> Date 10/18/96	12 Response Due Date 20 working days from issuance
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13 Affected Organization QA Manager Issuance Approval: (QAR for PR)

Printed Name *Richard E. Sance* Signature *R. E. Sance* Date *10/31/96*

22 Corrective Actions Verified QAR Date	23 Closure Approved by: (N/A for PR) AOQAM Date
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PR/DR NO. YM-97-D-005

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR)

Required

Yes

No

17 Action to Preclude Recurrence: (Not required for PR)

Required

Yes

No

18 Corrective Action Completion Due Date:

19 Response by:

Initial

Amended

Date

Phone

20 Response Accepted

QAR

Date

21 Response Accepted (N/A for PR):

AQQAM

Date

ORIGINAL
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WASHINGTON, D.C.**

8 Performance Report
 Deficiency Report
NO. YM-97-D-006
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
QARD, FWP-ESF-96-003, R1

2 Related Report No.
YM-SR-96-028

3 Responsible Organization:
CRWMS M&O

4 Discussed With:
Doug Weaver, Andrew Burningham

5 Requirement/Measurement Criteria:

Quality Assurance Requirements and Description (QARD) Sub-Section 2.2.3 "Controlling Activities" A. States :

" The QA program shall apply to site characterization data and samples.

Note: Site characterization for the purpose of QA program applicability includes activities related to sample collection and the collection and analysis of data to support performance confirmation or performance assessments."

6 Description of Condition:

Contrary to the above requirements, Williams B7X rock bolts have been installed and grouted as Non-Q for the Single Heater Test. Installation data has been collected and recorded as Q data in accordance with Technical Procedure (TP) 245 " Calibration , Preparation, Installation, and Operation of Vibrating Wire Rock Bolt Load Cells "

7 Initiator

John R. Doyle *John R. Doyle* Date 10/18/96

9 Is condition an isolated occurrence?

Yes No Unknown; Must be Yes if PR

10 Recommended Actions: (Not required for PR)

Revise FWP to include rock bolt installation and grouting as a "Q" activity.

11 QA Review

QAR John R. Doyle *John R. Doyle* Date 10/18/96

12 Response Due Date

13 Affected Organization QA Manager Issuance Approval: (QAR for PR)

Printed Name *Richard E. Spence*

Signature *Richard E. Spence*

Date *10/31/96*

22 Corrective Actions Verified

QAR Date

23 Closure Approved by: (N/A for PR)

AOQAM Date

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QA: L

PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR) Required Yes No

17 Action to Preclude Recurrence: (Not required for PR) Required Yes No

18 Corrective Action Completion Due Date:

19 Response by:

Initial

Amended

Date

Phone

20 Response Accepted

QAR

Date

21 Response Accepted (N/A for PR):

AOQAM

Date