



**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 98608  
Las Vegas, NV 89193-8608  
MAY 30 1996

L. Dale Foust  
Technical Project Officer  
for Yucca Mountain Site  
Characterization Project  
TRW Environmental Safety Systems, Inc.  
Bank of America Center, Suite P-110  
101 Convention Center Drive  
Las Vegas, NV 89109

ISSUANCE OF DEFICIENCY REPORT (DR) YMQAD-96-D061 RESULTING FROM  
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) SURVEILLANCE  
YMP-SR-96-011 (SCPB: N/A)

Enclosed is DR YMQAD-96-D061 generated as a result of YMQAD  
Surveillance YMP-SR-96-011.

Please identify the corrective action to be taken and implemented to  
correct the deficiency. A DR Continuation Page has been provided.  
Send the original of your response to Deborah Sult, YMQAD/QATSS,  
P.O. Box 98608, Mail Stop 455, Las Vegas, NV 89193-8608. Response  
to the DR is due 20 working days from the date of this letter. Any  
extension to the due date must be requested in writing, with  
appropriate justification, prior to the due date.

If you have any questions, please contact either Robert B. Constable  
at 794-5580 or Patout H. Cotter at 794-1332.

*Robert B. Constable*

YMQAD:RBC-1838

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

Enclosures:

1. DR YMQAD-96-D061
2. PR/DR Continuation Page

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102.7  
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L. Dale Foust

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MAY 30 1996

cc w/encls:

T. A. Wood, HQ (RW-14) FORS  
J. G. Spraul, NRC, Washington, DC  
B. W. Zimmerman, NWPO, Carson City, NV  
R. L. Strickler, M&O, Vienna, VA  
R. P. Ruth, M&O, Las Vegas, NV  
Records Processing Center

cc w/o encls:

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

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

THIS IS A RED STAMP

8 ☐ Performance Report  
☒ Deficiency Report  
NO. YMQAD:96-D061  
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

QARD, DOE/RW-0333P, Revision 5

2 Related Report No.

YMP-SR-96-011

3 Responsible Organization:

CRWMS M&O Design

4 Discussed With:

O. J. Gilstrap / A. Segrest / J. Willis / J. Bailey / W. Glasser

5 Requirement/Measurement Criteria:

1.
  - QARD, Section 2.0, "Quality Assurance Program," Paragraph 2.2.1, "Quality Assurance Program Documents."
  - "B. Affected Organizations shall establish implementing documents applicable to their scope of work that translate Quality Assurance Requirements and Description (QARD) requirements into work processes."
  - QARD Section 3.0, "Design Control," Paragraph 3.2.8, "Design Change Control," states:  
"Design changes shall be controlled according to the following requirements:  
A. Changes to final designs, field changes, and nonconforming items dispositioned "use-as-is" or "repair" shall be justified and shall be subject to design control measures commensurate with those applied to the original design.  
B. Design control measures for changes shall include provisions to assess the effect of the changes on the overall previously verified design and ensure that the design analyses for the item are still valid."

6 Description of Condition:

1. Contrary to the requirements in paragraph 2.2.1 and 3.2.8, the Design Control measures for NCRs dispositioned "use-as-is" (those not covered by an ECR) or "repair" resulting in changes to design requirements are presently not described and documented in CRWMS M&O implementing procedures.
2. Contrary to the requirements in paragraph 2.2.1, the CRWMS M&O matrix does not correctly identify where the QARD requirements are directly addressed for the following procedures:  
  
NLP-3.25, "Configuration/Change Control," NLP-3.10, "Preparation of Changes to Engineering Drawings and Specifications," QAP-3-8, Specifications," QAP-3-9, "Design Analysis," and QAP-3-10, "Engineering Drawings."

7 Initiator

Patout H. Cotter

Date 5/17/96

9 QA Review

QAR

Date 5/17/96

10 Response Due Date:

20 Working Days From Issuance

11 QA Issuance Approval

QAR (PR)/AOQAM (DR)

Date 5/29/96

12 Remedial Actions:

Revise CRWMS M&O procedure(s) as necessary to comply with QARD requirements.

13 Remedial Actions 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:

1. Initiate action to update procedures.
2. Determine the root cause of deficient condition.
3. Determine and implement actions to preclude recurrence.

18 Investigative Actions:

19 Root Cause Determination:

20 Action to Preclude Recurrence:

21 Response By:

Date

22 Corrective Action Completion Due Date

23 Response Accepted

QAR

Date

24 Response Accepted

AOQAM

Date

25 Amended Response Accepted

QAR

Date

26 Amended Response Accepted

AOQAM

Date

27 Corrective Action Verified

QAR

Date

28 Closure Approved by:

AOQAM

Date

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PERFORMANCE/DEFICIENCY REPORT

Block 5, Requirement/Measurement Criteria, continued:

2. QARD, Section 2.0, "Quality Assurance Program," Paragraph 2.2.1, "Quality Assurance Program Document," states:

"2.2.1C Each Affected Organization shall complete a QARD requirements matrix for the portion of the QARD which they are implementing.

2.2.1C.1 The matrix shall identify: a) Where the QARD requirements are directly addressed."

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PR/DR CONTINUATION PAGE