



Department of Energy
Washington, DC 20585

QA: L

NOV 12 1997

L. D. Foust, Technical Project Officer
for Yucca Mountain Site
Characterization Project
TRW Environmental Safety Systems, Inc.
1180 Town Center Drive, M/S 423
Las Vegas, NV 89134

**VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY
REPORT (DR) YM-97-D-058 RESULTING FROM OFFICE OF QUALITY
ASSURANCE (OQA) AUDIT UNR-ARP-97-17 OF THE CIVILIAN RADIOACTIVE
WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING
CONTRACTOR**

The OQA staff has verified the corrective action to DR YM-97-D-058 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Stephen D. Harris at (702) 734-0870.

R. W. Cel
for Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-0250

Enclosure:
DR YM-97-D-058

cc w/encl:
T. A. Wood, DOE/HQ (RW-55) FORS
J. O. Thoma, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
B. R. Justice, M&O, Las Vegas, NV
R. A. Morgan, M&O, Las Vegas, NV
M. C. Tynan, DOE/YMSCO, Las Vegas, NV

cc w/o encl:
W. L. Belke, NRC, Las Vegas, NV
S. D. Harris, OQA/QATSS, Las Vegas, NV
D. G. Sult, OQA/QATSS, Las Vegas, NV
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Recp: NMSS/PATL



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

8 Performance Report
 Deficiency Report

NO. YM-97-D-058

PAGE 1 OF 2
QA: L

PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

Civilian Radioactive Waste Management System Management & Operating Contractor (CRWMS M&O)-Quality Administrative Procedure (QAP)-SIII-2, Revision 0, "Review of Scientific Documents and Data"

2 Related Report No.

UNR-ARP-97-17

3 Responsible Organization:

CRWMS M&O

4 Discussed With:

Norma E. Biggar/Jan C. Rasmussen

5 Requirement/Measurement Criteria:

Quality Assurance Requirements & Description (QARD) 2.2.10.F requires mandatory comments resulting from the review to be documented and resolved before approving the document.

QAP-SIII-2, Revision 0, Section 5.2.9, states, "The technical reviewers shall sign and date a statement verifying that the document meets review requirements and that all mandatory comments have been resolved or that no mandatory comments were developed.

6 Description of Condition:

Contrary to the above requirements, there was no evidence the technical reviewer(s) had signed a statement verifying that the document meets review requirements and that all mandatory comments have been resolved, or no mandatory comments were developed. The report, "Natural Resources Final Report," Revision 00, had been approved as completed by way of letter LV.PP.TAG.06/97-052, dated June 2, 1997.

7 Initiator

S. D. Harris
S. D. Harris Date 6-5-97

9 Is condition an isolated occurrence?

Yes No Unknown; Must be Yes if PR

10 Recommended Action: (Not required for PR)

Evaluate the implementation of the process followed for review of other deliverables to determine if technical documents are being submitted prior to completion of the review process, and resolve any process deficiencies to meet the requirements of the QARD and implementing procedures.

11 QA Review:

QAR *S. D. Harris* Date 6-5-97

12 Response Due Date

20 working days from issuance

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

Printed Name D. G. Horton

Signature *R. W. Clap* Date 6/27/97

22 Corrective Action Verified

QAR *S. D. Harris*

Date 10/9/97

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

AOQAM *R. W. Clap* Date 11/6/97

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PR/DR NO. YM-97-D-58
PAGE 2 OF 2
QA: L

PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

Response:

Documentation of the technical reviews of technical sections of the Natural Resources Final Report, including signatures, will be completed, indicating closure with regard to resolution of mandatory comments.

To address the concern from recommended actions that this is not an isolated occurrence, documentation of reviews of other Level 3 reports produced to date during FY97 by the M&O SPO will be evaluated to assess if implementation of the review process was appropriately conducted and documented.

15 Extent of Condition: (Not required for PR)

Evaluation shows that there are only approximately three other reports recently produced by the M&O which are subject to consideration for review relative to this condition. Initially, indications are that this condition is not generally existent in these documents.

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:

09/26/97

19 Response by: Norma Biggar

Norma Biggar

Date 07/28/97

Phone 295-3549

20 Response Accepted

QAR

Stephen D. Harris 7/30/97

21 Response Accepted (N/A for PR)

DOQA

R.W. Clef

Date

8/13/97

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NO. YM-97-D-058
PAGE OF
QA: L

PR/DR CONTINUATION PAGE

Verification activities:

14 Remedial Actions:

The report, "Natural Resources Final Report," Revision 00, which was the document of concern for this DR, had been submitted to the Department of Energy in June 1997 and was rejected (YAR No. 0878A). It was verified that two sections of the report, Geothermal and Industrial Minerals, have mandatory comments that have yet to be resolved. The intent of the CRWMS M&O was to resolve these outstanding mandatory comments in Fiscal Year 1998, which would have made considerable changes to the report, and perform another review of this document. However, funding was cut for this effort.

The results presented in the "Natural Resources Final Report" had been the work of several organizations performing work for the M&O at the University of Nevada, Reno (UNR) and subcontracted through UNR. However, for the most part, these organizations had not followed an acceptable QA program that meets the Quality Assurance Requirements and Description Document. (QARD). One exception was the ACTLABS data that had been produced under an acceptable program. This situation had been documented on YM-97-D-053. The response to this DR said the work and data would be considered non-Q, except for ACTLABS's data, and would be so indicated in the Technical Data Base. In addition, if any of the non-Q data would be used to support viability assessment or licensing, YAP-SIII.1Q, Qualification of Unqualified Data, would be used to qualify it prior to use.

15 Extent of Condition:

<u>FY97 WBS</u>	<u>Milestone ID</u>	<u>Title</u>	<u>Actual Finish</u>
1.2.3.14.2	SP3305M3	Drift Scale Test Design and Forecast Results	July 16, 1997
1.2.3.3.12.9	SP24BM3	UZ Site Flow Model (Lawrence Berkeley National Lab)	June 9, 1997
1.2.3.9.5	SP23BM3	Updated Integrated Site 3-D Geoframework Model	Feb. 21, 1997

The above three report reviews were verified. Documentation of comments and resolution signatures by the reviewers were verified for the "Drift Scale Test Design and Forecast Results" and the "Updated Integrated Site 3-D Geoframework Model" reviews. The "UZ Site Flow Model" review documentation had not yet been submitted to records. Cheryl Hastings was contacted at Lawrence Berkeley National Lab to determine the status of the documented review. She stated that the required review documentation had been obtained but was still within the Laboratory. Since the review documentation was available for evaluation on two of the three deliverables, it was determined to be satisfactory to indicate that reviews of FY97 deliverables were not being overlooked prior to submittal to the Department of Energy.

This DR is closed based on the above described conditions, which place adequate controls on possible use of this data in the future and indicate review documentation was completed for FY97 deliverables other than the "Natural Resources Final Report, Rev. 00."

Stephen D. Harris 10/9/97
Stephen D. Harris Date