



Department of Energy

Washington, DC 20585

QA: L

SEP 26 1997

W. E. Barnes, Project Manager
ATTN: J. R. Compton
U.S. Department of Energy
Yucca Mountain Site Characterization
Office, M/S 523
P.O. Box 30307
North Las Vegas, NV 89036-0307

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) YM-96-D-065 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SURVEILLANCE YMP-SR-96-016 OF YUCCA MOUNTAIN SITE CHARACTERIZATION OFFICE

The OQA staff has verified the corrective action to DR YM-96-D-065 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 Kenneth T. McFall at (702) 295-2832.

Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-2325

Enclosure:
DR YM-96-D-065

cc w/encl:
J. O. Thoma, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
J. A. Hall, M&O, Las Vegas, NV

cc w/o encl:
W. L. Belke, NRC, Las Vegas, NV
K. T. McFall, OQA/QATSS, Las Vegas, NV
D. G. Sult, OQA/QATSS, Las Vegas, NV
W. E. Barnes, DOE/YMSCO, Las Vegas, NV
R. W. Clark, DOE/OQA, Las Vegas, NV

NH33
wm-11
102.7

Rec'd: nmss/PAHL

9710010075 970926
PDR WASTE
WM-11 PDR



300136



Printed with soy ink on recycled paper

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

8 ☐ Performance Report
☒ Deficiency Report
NO. YM-96-D-065
PAGE 1 OF 23
QA: L

PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:

QARD, DOE/RW-0333P, Revision 5

2 Related Report No.

YMP-SR-96-016

3 Responsible Organization:

Yucca Mountain Site Characterization Office

4 Discussed With:

S. Jones / K. Skipper

5 Requirement/Measurement Criteria:

QARD, Section 2.0, Paragraph 2.2.5, states in part: "Planning shall be documented to ensure work is accomplished under suitably controlled conditions. Planning elements shall include, as appropriate:

B. Identification of scientific approach or technical methods used to collect, analyze, or study results of applicable work."

QARD, Section 5.0, Paragraph 5.2.2 states: "Implementing documents shall include the following information appropriate to the work to be accomplished." Subparagraph 5.2.2B stipulates: "Technical and regulatory requirements."

6 Description of Condition:

Contrary to the above requirements, the appropriate technical requirements for the collection of core have not been specified and/or established in implementing documents. In discussion with U.S. Department of Energy Assistant Manager for Scientific Programs personnel it was determined that core orientation, photography, and geologic logging are considered standard industry practices that need to be accomplished for all core. However, in review of site procedures these technical requirements are not always mandated.

Examples of this deficiency are represented by:

- 1) Los Alamos National Laboratory (LANL) procedure LANL-EES-13-DP-612, Revision 0, fails to contain specifics on orientating core, core photography, and creation of a geologic log containing structural and lithologic features.
- 2) Civilian Radioactive Waste Management System Management and Operating Contractor procedure NWI-DS-0001Q, Revision 2, fails to identify core photograph and creation of a geologic log for non-assigned, non-allocated drill hole core.

Basically, the Project has failed to identify and document minimum set of technical requirements needed for the collection of all core when there is no special instructions identified by the Principal Investigators.

7 Initiator

John S. Martin

Date 7/2/96

9 QA Review

QAR

Date 7/10/96

10 Response Due Date:

20 Working Days From Issuance

11 QA Issuance Approval

QAR (PR)/AOQAM (DR)

Date 7/19/96

12 Remedial Actions:

13 Remedial Actions Response By:

N/A

Date

14 Remedial Action Due Date

N/A

Date

15 Remedial Action Response Acceptance

QAR

N/A

Date

16 PR Verification /Closure

QAR

N/A

Date

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

8

DR NO. YM-96-D-065

PAGE 2 OF 3

QA: L

DEFICIENCY REPORT

17 Recommended Actions:

Investigate to determine the extent of the deficiency.

Based on the results, determine root cause of the condition.

Provide actions to preclude recurrence.

18 Investigative Actions:

Staff members from the U.S. Department of Energy (DOE) and the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) reviewed the core collection, handling, and processing procedures presently in place.

19 Root Cause Determination:

Project failed to identify, document, and implement a minimum set of technical requirements needed for the collection and handling of all core when there are no special instructions identified by the Principal Investigator(s).

20 Action to Preclude Recurrence:

Staff members from the DOE and CRWMS M&O reviewed DR YM-96-D-065. The review team recommends modifications to the Exploratory Studies Facility Requirements Document and the Surface-Based Testing Facilities Requirements Document for resolution of the deficiency report. The modifications consist of reference to American Society for Testing and Materials (ASTM) standards for the collection and handling of core. The applicable ASTM standard is D 5079-90 (Standard Practices for Preserving and Transporting Rock Core Samples). The proposed modifications will ensure that all core, including core designated as Non-Required Assigned, will be collected and processed in such a manner as to retain a "Q" pedigree for possible future use.

21 Response By

Date 12/20/97

22 Corrective Action Completion Due Date

JULY 1997

23 Response Accepted

QAR

Date 1-23-97

24 Response Accepted

AOQAM

Date 2/4/97

25 Amended Response Accepted

QAR

Date

26 Amended Response Accepted

AOQAM

Date

27 Corrective Action Verified

QAR

Date 8/28/97

28 Closure Approved by:

AOQAM

Date 9/24/97

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

8 ☐ Performance Report
☒ Deficiency Report

NO. YM-96-D-065

PAGE 3 OF 3

QA: L

PR/DR CONTINUATION PAGE

Los Alamos National Laboratory (LANL) procedure LANL-EES-13-DP-612, Revision 0, and CRWMS procedure NWI-DS-001Q, Revision 2, have been revised and a new procedure NWI-DS-004 has been created to address the deficiencies in DR YM-96-D-065. The classification Non-Required Non Assigned has been dropped and is no longer an issue.

A Document Action Request (DAR) will be initiated to make the proposed changes to the ESFDRD and the SBTFRD. Approval of the DAR is estimated to occur during February 1997. The document changes are expected to be completed by July 1997.

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

NO. YM-96-D-065

PAGE ____ OF ____

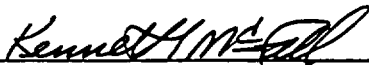
QA: 1

PR/DR CONTINUATION PAGE

VERIFICATION AND CLOSURE OF DEFICIENCY REPORT (DR) YM-96-D-065

It was verified that ICN #1 to the SBTFD and ICN #1 to the ESFDR were issued by Document Control on 8/22/97 and 8/23/97, respectively. All necessary activities for the completion of corrective action have been accomplished and the deficiency is now considered closed.

KTM
9-23-97 INCLUDING REFERENCE TO THE REQUIRED
STANDARD FOR CORE,



Kenneth T. McFall, QAR

9/4/97
Date