

Department of Energy

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

SEP 27 1996

L. D. 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

VERIFICATION OF CORRECTIVE ACTIONS AND CLOSURE OF DEFICIENCY REPORT (DR) YM-96-D-054 AND PERFORMANCE REPORT (PR) YM-96-P-026 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE (YMQA) AUDIT YM-ARC-96-11 OF LAWRENCE LIVERMORE NATIONAL LABORATORY

The YMQA staff has verified the corrective actions to DR YM-96-D-054 and PR YM-96-P-026 and determined the results to be satisfactory. As a result, these deficiency documents are considered closed.

If you have any questions, please contact either Robert B. Constable at (702) 794-5580 or Donald J. Harris at (702) 794-1467.

YMQA:RBC-2733

Richard E. Spence Yucca Mountain Quality Assurance

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WM-11

Enclosure: DR YM-96-D-054 and PR YM-96-P-026

cc w/encl:

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

cc w/o encl: W. L. Belke, NRC, Las Vegas, NV D. J. Harris, YMQA/QATSS, Las Vegas, NV D. G. Sult, YMQA/QATSS, Las Vegas, NV D. G. Horton, DOE/OQA, Las Vegas, NV

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| RADIOACTIVE WA U.S. DEPARTM | DF CIVILIAN ASTE MANAGEM IENT OF ENERGY GTON, D.C. | · | B Performance Re Deficiency Repo Ym-Gly-D-1 NO. 171QAD-96-DO PAGE 1 OF 2 QA: |
| PERFORMANCE/D | EFICIENCY REPO | DRT | |
| 1 Controlling Document: | | 2 Related Rep | |
| QARD DOE/RW-0333P, Revision 5 | | YM-ARC-96-1 | 11 |
| | Discussed With: | l | |
| Lawrence Livermore National Laboratory R. | Monks | • | |
| 5 Requirement/Measurement Criteria: | | | <u> </u> |
| Section 2.2.2, "Classifying Items." | | | |
| The QA program shall apply to the following, which shall be include Section 2.2.3, "Controlling Activities." | iuaea on the Q-List (Ite | ms A through G | J. |
| A. The QA program shall apply to site characterization data and | samples. | | |
| B. The QA program applies to activities related to items on Q-Li | | | |
| C. The QA program shall apply to those activities that provide d | | otential dispersio | n of radioactive materi |
| from the licensed facility. | | • | |
| Section 2.2.4, "Applying QA Controls." | | | |
| QA Controls (grading) to be applied. | | | |
| 033-YMP-QAP 2.8, Revision 4, "Quality Assurance Grading." Participant Planning Sheet (PPS) (PSA03) statement of work desigrade the work or activity out to be either Non-Quality affecting of 2) QAG-L-020, Revision 1, indicates the activity is not subject to 1.2.2.5.1 states the QARD applies to this effort. | ignated on the PPS that or specifies what QA re | the "QARD app quirements appl | lies to this effort," and y. |
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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

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| | PAGE | 2 | OF | 2 | |
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DEFICIENCY REPORT

17 Recommended Actions:

Revise the QA Grading Report to reflect of PPS for the WBS activities or incorporate the QA requirements in the Activity Plan or Scientific Investigation Plan.

NOTE: All PPS' includes a statement when the QARD applies or does not apply.

18 Investigative Actions:

A review of all Grading Reports indicate that the technical staff has attempted to include experimental set-up or preliminary test activities required to assure confidence in data in their planning documents. Only these portions of the total activity were graded as "Non Q" or "not subject to the QARD". Review of Activity Plans and Study Plans referred to in the Grading Reports allows one to differentiate when "Q" data may be obtained and require re-grading or have been graded as "Q" in separate Grading Reports.

19 Root Cause Determination:

In an attempt to conserve funds and manpower in the early start-up of Scientific Investigation Activities, the QA grading procedure was used to allow broad discretion by the PIs in selecting controls considered applicable to the preliminary phases of their activities.

20 Action to Preclude Recurrence:

YMP-QP 3.0, "Scientific Investigation Control," and YMP-QP 2.8, "Quality Assurance Grading" will be revised to assure that LLNL staff work is accomplished in accordance with the requirements of the QARD and as specific in the PPSs.

| 21 Response by: | | 22 Corrective Action Completion Due Date: | | |
|-----------------|------------------|---|------------------------------|-----------------------|
| 23 Response A | | Date 6 4-96 | 24 Response Accepter | - Lon Date 6.26.96 |
| DAR | Harris | Date 6-20-96 | ADDAM ADDASLADIE | Date 6.26.96 |
| QAR | esponse Accepted | Date | 26 Amended Response Accepted | 3 Pate |
| 27 Corrective | Actions Verified | Date 9/24/96 | 28 Closure And ved IV: | Date 9.26.96 |

Exhibit AP-16 0.2

Rev. 07/03/95

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

____ Performance Report Deficiency Report

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PR/DR CONTINUATION PAGE

VERIFICATION OF CORRECTIVE ACTION FOR DR YM-96-D-054

Block 27, Corrective Actions Verified -

Remedial Actions: Verified Change Notices to LLNL QA Grading Reports were issued, effective 9/12/96, which stated: All activities are subject to the QARD. In addition, LLNL Memorandum LLYMP9607066 was appended to the OA Grading Reports. The memorandum provided the reason for the changes to the following QA Grading Reports:

> LLNL-OAG's L002 CN 2-1, L003 CN 2-1, L005 CN 1-1, L008 CAN 1-1, L011 CN 1-1, L014 CN 2-1, L017 CN 1-1. L020 CN 1-1. L021 CN 1-1. L025 CN 1-1. L026 CN 1-1. L027 CN 1-1. L028 CN 1-1. L029 CN 1-1, L030 CN 1-1, L032 CN 1-1, L033 CN 1-1, L034 CN 1-1, L037 CN 1-1, L038 CN 1-1, L039 CN 1-1, L040 CN 1-1, L041 CN 1-1, L041 CN 1-1, L043 CN 1-1, L047 CN 1-1, L048 CN 1-1, L061 CN 1-1, L062 CN 1-1, L068 CN 1-1, L071 CN 1-1, L072 CN 1-1, L076 CN 0-1, L080 CN 0-1, L081 CN 0-1.

Action to Preclude Recurrence:

- 1) Verified LLNL 033-YMP-QP 2.8, Revision 4, Quality Assurance Grading was canceled, effective 9/10/96.
- 2) Verified LLNL 033-YMP-QP 3.0, Revision 5, Scientific Investigation became effective 9/19/96, was revised to incorporate the requirements of QARD, Revision 5 changes. In addition, it eliminated the Task Leader references, changed the responsibilities for LLNL's QA Grading and designated the Participant Planning Sheets (PPS) as the determinant factor in QA Grading, when the PPS states the activities are "subject to the QARD".

Harris Donald J. Harris, OAR

9/24/95= 21/24/96 Date

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| PERFORMANCE | DEFICIENCY REP | ORT | |
| 1 Controlling Document: | | 2 Related Report N | No. |
| 033-YMP-QP 2.8, Revision 4, "QA Grading" | | YM-ARC-96-11 | |
| 3 Responsible Organization: Lawrence Livermore National Laboratory | 4 Discussed With: R. Monks | • . | |
| 5 Requirement/Measurement Criteria: Paragraph 2.8.5.3, "QA Grading Reviewers, Appointed by the The Task Leader (TL) initiates the QA Grading Review by no If the TL and TAL are the same, QA Grading Review is accord | tifying the Project Leade | | |
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| 6 Description of Condition: | ······ | ······································ | |
| The term TL has been cancelled. The procedure has not been Grading Report Review Record Form YMP075, Revision 8 (C | | | |
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| Grading Report Review Record Form YMP075, Revision 8 (C | | | |
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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

| 8 | Ø | Performance Report |
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| | | Deficiency Report |

NO. YM-96-P-026 PAGE _____ OF _ QA: L

PR/DR CONTINUATION PAGE

VERIFICATION OF CORRECTIVE ACTION FOR PR YM-96-P-026

Block 16, PR Verification/Closure

- 1) Verified 033-YMP-QP 2.8 was canceled on 9/10/96.
- 2) Verified 033-YMP-OP 3.0, Scientific Investigation Control, Revision 5, effective 9/19/96, incorporated OARD, Revision 5 changes and incorporated the requirements that the Participant Planning Sheets (PPS) are the determining factor in classifying LLNL-QA Grading Reports when the PPS states the activity is subject to the QARD. The Task Leader designation has been removed as being responsible for OA Grading Report and is in agreement with the OA Grading Report Form; LLNL-QAG-L082.

Nonald J. Harris, QAR

<u>9/24/95</u> Date