



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

SEP 05 1996

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 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

**EVALUATION OF AMENDED RESPONSE TO DEFICIENCY REPORT (DR)
 YM-96-D-055 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE
 DIVISION'S (YMQAD) AUDIT YM-ARC-96-11 OF LAWRENCE LIVERMORE NATIONAL
 LABORATORY**

The YMQAD staff has evaluated the amended response to DR YM-96-D-055. The response has been determined to be satisfactory. Verification of completion of the corrective action will be performed after the effective date provided. Any extension to this date must be requested in writing, with appropriate justification, prior to the date. Please send a copy of extension requests to Deborah Sult, YMQAD/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada 89193-8608.

If you have any questions, please contact either Robert B. Constable at (702) 794-5580 or John E. Therien at (702) 794-5408.

Richard E. Spence
 Richard E. Spence, Director
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-2549

Enclosure:
 DR YM-96-D-055

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

- cc w/o encl:
- W. L. Belke, NRC, Las Vegas, NV
 - J. E. Therien, YMQAD/QATSS, Las Vegas, NV
 - D. G. Sult, YMQAD/QATSS, Las Vegas, NV
 - D.G. Horton, DOE/OQA, 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
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
033-YMP-QP 4.1, Revision 3, CN 4.3-3-1, CN 4.1-3-2

2 Related Report No.
YM-ARC-96-11

3 Responsible Organization:
Lawrence Livermore National Laboratory (LLNL)

4 Discussed With:
R. Monks

5 Requirement/Measurement Criteria:
Sections 4.1.5.4.1 and 4.1.5.4.3 requires that the QA Manager review QARD revisions vis-a-vis the Generic QA Requirements Specification and revise this specification, as appropriate. Additionally, based on revisions to the Generic QA Requirements Specification, Task Leaders are to review and revise, as appropriate, Subcontract QA Requirements Specifications.

6 Description of Condition:
The Generic QA Requirements Specification has not been revised since 7/1/91, nor is there evidence that this Specification has been reviewed vis-a-vis the various QARD revisions issued since July 1991.

The Subcontract QA Requirements Specification for Argonne National Laboratory (ANL) and Pacific Northwest Laboratory (PNL) have not been revised since September 1992, although annual evaluations were performed in October and February of 1995, respectively.

7 Initiator
John E. Therich *[Signature]* Date 4/30/96

9 QA Review
QAR *[Signature]* Date 4/30/96

10 Response Due Date
20 Working Days From Issuance

11 QA Issuance Approval
QAR (PRI/AOQAM/ORI) *[Signature]* Date 5/8/96

12 Remedial Actions:
QARs have been canceled. Note: at the time of the audit, LLNL had no contracts with suppliers where the QARs are involved.

13 Remedial Action Response By:
[Signature] Date 6-12-96

14 Remedial Action Due Date
July 31, 1996. Date

15 Remedial Action Response Acceptance
QAR Date

16 PR Verification/Closure
QAR Date

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DEFICIENCY REPORT

17 Recommended Actions:

Determine if the QA requirements invoked on ANL and PNL work is consistent with present QARD requirements.
Evaluate the methodology in QP 4.1 to determine if this process is consistent with LLNL current procurement needs.
Examine the procurement interfaces associated with ANL, PNL, LLNL and the Civilian Radioactive Waste Management System Management and Operating Contractor.

18 Investigative Actions:

A review of ANL and PNL QA Program Plans by the LLNL QA staff and LLNL technical representative during annual evaluations shows that appropriate QARD requirements were implemented by the contract laboratories.
YMP-QP 4.1 was not consistent with current work practices and has been canceled.
The M&O now contracts directly for ANL and PNL work. LLNL technical staff reviews, or may be required to review, work results and provide technical direction to ANL and PNL as part of LLNL's assigned responsibilities for the M&O. This information is provided to and through the M&O. LLNL may provide technical evaluation data in future ANL and PNL annual evaluations.

19 Root Cause Determination:

Procedures were not revised to reflect current work practices.

20 Action to Preclude Recurrence:

Cancellation of procedure will preclude its use.
Procurement interfaces with ANL, PNL, LLNL, and TRW should be addressed in TRW procedure revision when it is published.

21 Response by: <i>Lois M. ...</i> Date <i>6-1-96</i>	22 Corrective Action Completion Due Date August 31, 1996
23 Response Accepted OAR <i>N/A</i> Date	24 Response Accepted AOQAM <i>N/A</i> Date
25 Amended Response Accepted OAR <i>John S. ...</i> Date <i>8/26/96</i>	26 Amended Response Accepted AOQAM <i>Blomtable</i> Date <i>9-3-96</i>
27 Corrective Actions Verified OAR Date	28 Closure Approved by: AOQAM Date

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PR/DR CONTINUATION PAGE

Block 22. Corrective Action Completion Due Date
Addition of date: August 31, 1996