



Department of Energy

Washington, DC 20585

QA: L

JUL 11 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

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT (OCRWM) QUALITY ASSURANCE (QA) AUDIT REPORT LANL-ARP-97-12 OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR'S (CRWMS M&O) SUPPORT OF THE YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT AT LOS ALAMOS NATIONAL LABORATORY (LANL)

Enclosed is the report of the OCRWM QA Audit LANL-ARP-97-12. The audit was conducted by the Office of Quality Assurance (OQA) at LANL, Los Alamos, New Mexico, June 2-6, 1997.

Overall, the audit team determined that the CRWMS M&O at LANL is satisfactorily implementing the QA program described in the OCRWM Quality Assurance Requirements and Description document as it pertains to Milestone SP2370M4, Work Breakdown Structure Number 1.2.3.3.1.3.1, "Site Saturated Zone Ground-Water Flow System," specifically, "Results, Analyses and Interpretation of Tracer Tests in the Lower Bullfrog Tuff at the C Wells, Yucca Mountain, Nevada." During the course of the audit, the audit team generated one OCRWM Deficiency Report (DR), which is detailed in Section 5.5.2 of the enclosed report. DR YM-97-D-061 documents the lack of initiation of the software life cycle requirements for codes used in this milestone. Response to the DR (which was transmitted via separate letter) is due by the date indicated in Block 12. Three Recommendations were generated as a result of the audit. The OQA requests a response to Recommendation 6.2 of the enclosed report. A response to this Audit Report is not required.

The audit is considered completed and closed as of the date of this letter; however, the open DR will continue to be tracked until it has been closed to the satisfaction of the QA representative and the Director, OQA.

9707160185 970711
PDR WASTE PDR
WM-11

NH33 1/1
wm-11
102.7

Recip: nmss/HWR

150159



Printed with soy ink on recycled paper

JUL 11 1997

L. D. Foust

-2-

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Kenneth T. McFall at (702) 794-5470.



Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-1779

Enclosure:
Audit Report LANL-ARP-97-12

cc w/encl:

L. H. Barrett, DOE/HQ (RW-1) FORS
R. A. Milner, DOE/HQ (RW-2) FORS
T. A. Wood, DOE/HQ (RW-55) FORS
J. O. Thoma, NRC, Washington, DC
W. L. Belke, NRC, Las Vegas, NV
R. R. Loux, NWPO, Carson City, NV
S. W. Zimmerman, NWPO, Carson City, NV
Jim Regan, Churchill County Commission, Fallon, NV
D. A. Bechtel, Clark County, Las Vegas, NV
Susan Dudley, Esmeralda County, Goldfield, NV
Sandy Green, Eureka County, Eureka, NV
Tammy Manzini, Lander County, Austin, NV
Kim Packard, Mineral County, Hawthorne, NV
P. A. Niedzielski-Eichner, Nye County, Chantilly, VA
L. W. Bradshaw, Nye County, Tonopah, NV
Wayne Cameron, White Pine County, Ely, NV
B. R. Mettam, County of Inyo, Independence, CA
Mifflin and Associates, Las Vegas, NV
T. H. Chaney, USGS, Denver, CO
L. A. Souza, OQA/LANL, Los Alamos, NM
H. R. Cox, M&O, Las Vegas, NV
R. A. Morgan, M&O, Las Vegas, NV
M. J. Clevenger, M&O/LANL, Los Alamos, NM
G. Y. Bussod, M&O/LANL, Los Alamos, NM
P. W. Reimus, M&O/LANL, Los Alamos, NM
D. C. Mangold, M&O/LBNL, Berkeley, CA
R. E. Monks, M&O/LLNL, Livermore, CA
F. J. Schelling, M&O/SNL, Albuquerque, NM, M/S 1325
R. W. Clark, DOE/OQA, Las Vegas, NV