



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

OCT 04 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

**ISSUANCE OF SURVEILLANCE RECORD YMP-SR-96-026 RESULTING FROM
YUCCA MOUNTAIN QUALITY ASSURANCE (YMQA) SURVEILLANCE OF THE
CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND
OPERATING CONTRACTOR (CRWMS M&O)**

Enclosed is the record of Surveillance YMP-SR-96-026 conducted by the YMQA at the CRWMS M&O facilities in the Bank of America Building, Las Vegas, Nevada, August 29, 1996 through September 5, 1996.

The purpose of the surveillance was to verify that implementing design procedures adequately translate the Quality Assurance Requirements and Description (QARD) document into work processes, and that their content meets QARD requirements.

One Deficiency Report (DR) was issued as a result of this surveillance. Response to the DR, which was transmitted via separate letter, is due by the date indicated in Block 12.

This surveillance is considered completed and closed as of the date of this letter. A response to this surveillance record is not required; however, the open DR will continue to be tracked until it is closed to the satisfaction of the quality assurance representative and the Director, Office of Quality Assurance.

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If you have any questions, please contact either Mario R. Diaz at (702) 794-1489 or Patrick V. Auer at (702) 794-1432.

Richard E. Spence
Yucca Mountain Quality Assurance

YMQA:MRD-2772

Enclosure:
Surveillance Record YMP-SR-96-026

cc w/encl:

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- R. W. Clark, DOE/HQ (RW-3.1) FORS
- T. A. Wood, DOE/HQ (RW-14) FORS
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- R. R. Loux, 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
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- Wayne Cameron, White Pine County, Ely, NV
- B. R. Mettam, County of Inyo, Independence, CA
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- M. J. Clevenger, M&O/LANL, Los Alamos, NM
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- R. E. Armstrong, M&O, Las Vegas, NV
- R. P. Ruth, M&O, Las Vegas, NV
- T. H. Chaney, USGS, Denver, CO
- Records Processing Center

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Recip: NMSS/HLUR

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

QUALITY ASSURANCE SURVEILLANCE RECORD

SURVEILLANCE DATA

¹ORGANIZATION/LOCATION:
 Civilian Radioactive Waste
 Management System
 Management and Operating
 Contractor (CRWMS M&O),
 Bank of America Building, Las
 Vegas, NV

²SUBJECT:
 Verify that implementing design procedures
 adequately translate the Quality Assurance
 Requirements and Description (QARD)
 document into work processes, and that their
 content meets QARD requirements.

³DATE: 8/29/96 - 9/5/96

⁴SURVEILLANCE OBJECTIVE:
 Review the CRWMS M&O Quality Administrative Procedures (QAP)-3-8, Revision 6, QAP-3-9, Revision 6, and
 QAP-3-10, Revision 6, to determine if they adequately translate QARD, Section 2.2.10, requirements for document
 reviews of specifications, drawings, and design analyses.

⁵SURVEILLANCE SCOPE:
 Review CRWMS M&O QAP-3-8, QAP-3-9, and QAP-3-10, to: 1) Verify that they
 adequately address the requirements of Section 2.2.10 of the QARD as
 referenced in the QARD requirements matrix; and 2) Verify that these
 procedures address the requirements of Paragraph 5.2.2 of Section 5.0,
 "Implementing Documents," of the QARD.

⁶SURVEILLANCE TEAM:
 Team Leader:

Patrick V. Auer

Additional Team Members:

N/A

⁷PREPARED BY:
Patrick V. Auer 8-27-96
 Surveillance Team Leader Date

⁸CONCURRENCE:
N/A
 QA Division Director Date

SURVEILLANCE RESULTS

⁹BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:

See Page 2

¹⁰SURVEILLANCE CONCLUSIONS:

See Page 3

¹¹COMPLETED BY:
Patrick V. Auer 9-16-96
 Surveillance Team Leader Date

¹²APPROVED BY:
[Signature] 10/3/96
 QA Division Director Date

EXCLUDE

Block 9 BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS: (continued)

The purpose of this surveillance was to verify the CRWMS M&O design procedures (QAP-3-8, QAP-3-9, and QAP-3-10) adequately translate the QARD, Section 2.2.10, "Document Review," requirements for document reviews of specifications, drawings, and design analyses, and the content of these procedures meet the requirements of the QARD, Section 5.2.2, "Content of Implementing Documents." This surveillance was conducted from August 29, 1996 through September 5, 1996, on the CRWMS M&O at the Bank of America Building, Las Vegas, Nevada.

The surveillance was accomplished by reviewing the QARD requirements matrix for Section 2.2.10 and comparing the procedural requirements with the QARD requirements. The procedures were reviewed to ensure that a sequential method is specified to accomplish the work described and that a method exists to document that the work was performed as required.

The procedures adequately describe responsibilities and interfaces between organizations performing the work including acceptance based on sign-off of the document under review; e.g., analysis, specification, or drawing. The procedures detail the work process in a sequential, easy to understand manner with appropriate sign-off and approval where necessary. The methods for demonstrating that the work was performed include documentation of comments on the respective design document except in the case of resolutions of those comments (see Deficiency Report YM-96-D-101 described below). During the review process, all comments are treated as "mandatory" by the design organization.

Additionally, participation in document reviews (e.g., QAP-3-10 reviews of Exploratory Studies Facility/Geologic Repository Operations Area Interface Drawings) by Yucca Mountain Quality Assurance (YMQA)/Quality Assurance Technical Support Services personnel indicates that comments are resolved prior to approval of the document; and in the case of this particular review, comment resolutions were documented on the drawings.

DOCUMENTS REVIEWED:

QAP-3-8, Revision 6, "Specifications"
QAP-3-9, Revision 6, "Design Analysis"
QAP-3-10, Revision 6, "Engineering Drawings"

PERSONNEL CONTACTED:

Alden M. Segrest, Mined Geologic Disposal System (MGDS) Manager, CRWMS M&O
John J. Clark, MGDS Development, CRWMS M&O
Oscar J. Gilstrap, Quality Assurance, CRWMS M&O
Ronald E. Wagster, MGDS Development, CRWMS M&O
Frederick C. Arth, Quality Assurance, CRWMS M&O
Richard E. Spence, Director, YMQA

Block 10 SURVEILLANCE CONCLUSIONS: (continued)

In conclusion, the QAPs used to develop, check, and review specifications, design analysis, and engineering drawings are adequate to implement QARD, Section 2.2.10, requirements except in the area of documentation of mandatory comments and their resolutions. As a result, one deficiency document has been issued.

DEFICIENCY:

CRWMS M&O QAP-3-8, QAP-3-9, and QAP-3-10 do not specify a method for identifying which comments made during reviews of specifications, analysis, and engineering drawings are "mandatory" and for documenting the resolutions of those "mandatory" comments (reference: YM-96-D-101).

RECOMMENDATIONS:

None