



Department of Energy

Washington, DC 20585

SEP 19 1997

QA: L

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

ISSUANCE OF SURVEILLANCE RECORD M&O-SR-97-052 RESULTING FROM THE OFFICE OF QUALITY ASSURANCE (OQA) SURVEILLANCE OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR (CRWMS M&O)/FLUOR DANIEL, IRVINE, CALIFORNIA

Enclosed is the record of Surveillance M&O-SR-97-052, conducted by the OQA of CRWMS M&O/Fluor Daniel facility in Irvine, California, August 5-10, 1997.

The purpose of the surveillance was to assess the implementation of CRWMS M&O design control procedures as they relate to the design process.

There were no Corrective Action Requests, Deficiency Reports or Performance Reports issued as a result of the surveillance. One deficiency was identified during the surveillance concerning lack of documentation of training on a procedure for one individual. The deficiency is considered isolated in nature and was corrected during the course of the surveillance. No further action is deemed necessary.

The results of the surveillance are that the team determined that the overall effectiveness and adequacy of the design control process and related technical documentation preparation and procedure development process are in accordance with the Office of Civilian Radioactive Waste Management and CRWMS M&O quality assurance procedures and are considered satisfactory. //

This surveillance is considered completed and closed as of the date of this letter. A response to this surveillance record is not required.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Craig J. Barnes at (702) 295-2813.

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Enclosure:
Surveillance Record M&O-SR-97-052

WMS/paul

Catherine Hampton for
Donald G. Horton, Director
Office of Quality Assurance



SEP 19 1997

L. D. Foust

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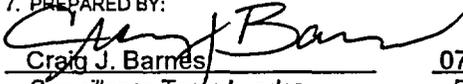
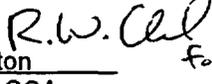
L. H. Barrett, DOE/HQ (RW-1) FORS
R. A. Milner, DOE/HQ (RW-2) FORS
T. A. Wood, DOE/HQ (RW-55) FORS
J. O. Thoma, NRC, Washington, DC
W. L. Belke, NRC, Las Vegas, NV
R. R. Loux, NWPO, Carson City, NV
S. W. Zimmerman, NWPO, Carson City, NV
Jim Regan, Churchill County Commission, Fallon, NV
D. A. Bechtel, 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
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
M. J. Clevenger, 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
H. R. Cox, M&O, Las Vegas, NV
R. A. Morgan, M&O, Las Vegas, NV
R. W. Clark, DOE/OQA, Las Vegas, NV

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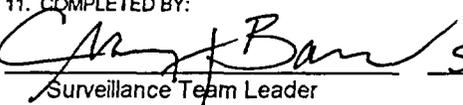
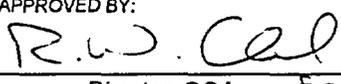
Surveillance No. M&O-SR- 97-052

QUALITY ASSURANCE SURVEILLANCE RECORD

SURVEILLANCE DATA

1. ORGANIZATION/LOCATION: Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O)/ Fluor Daniel, Irvine, CA	2. SUBJECT: Design Control Process	3. DATE: 08/06/97
4. SURVEILLANCE OBJECTIVE: Assess the implementation of CRWMS M&O design control procedures as they relate to the design process.		
5. SURVEILLANCE SCOPE: Review documentation and interview personnel for activities related to implementation of CRWMS M&O procedures for design control. Also, procedure availability, management control/oversight and training to appropriate design control procedures will be reviewed.		6. SURVEILLANCE TEAM: Team Leader: Craig J. Barnes Additional Team Members: Mario Diaz
7. PREPARED BY:  Craig J. Barnes Surveillance Team Leader	07/15/97 Date	8. CONCURRENCE:  Donald G. Horton Director, OQA
For 7/21/97 Date		

SURVEILLANCE RESULTS

9. BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS: <p>On August 5-10, 1997, a surveillance was conducted at the CRWMS M&O/Fluor Daniel facility in Irvine, California, to assess the implementation of CRWMS M&O design control procedures as they relate to the design process. Also, a review of compliance to applicable training, personnel qualification, and document control procedures, as well as management control/oversight of the design activities, was performed.</p> <p>See Pages 2-5...</p>	
10. SURVEILLANCE CONCLUSIONS: <p>Based on document reviews and personnel interviews, it has been determined that the overall effectiveness and adequacy of the design control process and related technical document preparation and procedure development process are in accordance with Office of Civilian Radioactive Waste Management and CRWMS M&O quality assurance procedures and are considered satisfactory. No deficiencies or recommendations were generated as a result of this surveillance.</p> <p>One deficiency was corrected during the surveillance as discussed in Block 9.</p>	
11. COMPLETED BY:  Surveillance Team Leader	9/10/97 Date
12. APPROVED BY:  Director, OQA	For 9/15/97 Date

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

DESIGN CONTROL

Because the design products at the Irvine facility were still in development, few products were at a stage that could be reviewed for compliance with applicable procedures; however, the following design products were discussed with appropriate engineering personnel and completed products were reviewed for adequate assumptions, selection of inputs, and design method, as well as compliance to applicable design control procedures.

Irvine Work Scope Descriptions	Document Identifier	Control Procedure	Document Status
Prepare the Waste Handling Systems Configuration Analysis	BCBD00000-01717-0200-00001	QAP-3-9	Approved 1/30/97
Support preparation of the Design Analysis for the Carrier/Cask Handling System	BCBD00000-01717-0200-00006	QAP-3-9	Draft in preparation
Support preparation of the Design Analysis for the Assembly Transfer System	BCBD00000-01717-0200-00007	QAP-3-9	Draft in preparation
Support preparation of the Design Analysis for the Canister Transfer System	BCDBD00000-01717-0200-00008	QAP-3-9	Draft in preparation
Support preparation of the Design Analysis for the DC Handling System	BCBD00000-01717-0200-00009	QAP-3-9	Draft in preparation
Prepare the Waste Handling Facilities Recovery Analysis	BCBD00000-01717-0200-00003	QAP-3-9	Approved 7/97
Prepare the Waste Handling Operations Scoping Study	Not available	QAP-3-5	In development
Prepare the Secondary Waste Treatment Analysis	BCBD00000-01717-0200-00005	QAP-3-9	Approved 6/97
Prepare the Secondary Waste Treatment Process Flow Diagrams	BCBD00000-01717-2700-67500 to 19	NAP-MG-015	Approved 6/30/97

Irvine Work Scope Descriptions	Document Identifier	Control Procedure	Document Status
Prepare the Pool System Analysis	BCBD00000-01717-0200-00005	QAP-3-9	Draft in preparation
Provide input to the Site-Generated Waste Study	Not available	QAP-3-5	In development
Support the preparation of the Engineering File for Surface Facilities	Not available	NAP-MG-012	In development
Support the preparation of the Waste Acceptance Criteria Document	Not available	QAP-3-5	Draft in preparation

The products reviewed during this surveillance were found to have acceptable detail presented in the Assumptions, Design Inputs, and Design Method sections.

Additionally, QAP-2-0 activity evaluations were reviewed for adequacy, accuracy, and procedure compliance, (4 total: Update/Integrate Nuclear Facility Design, Support Systems Studies, Develop Alternatives Data for NEPA, and Mechanical Flow Diagrams) for design activities conducted at the Irvine facility which support the Yucca Mountain Project.

The following completed records packages for analyses were reviewed for completion of discipline checking, design review, and final check including appropriate documentation and resolution of comments..

Prepare the Waste Handling Systems Configuration Analysis	BCBD00000-01717-0200-00001	QAP-3-9	Approved 1/30/97
Prepare the Waste Handling Facilities Recovery Analysis	BCBD00000-01717-0200-00003	QAP-3-9	Approved 7/97
Prepare the Secondary Waste Treatment Analysis	BCBD00000-01717-0200-00005	QAP-3-9	Approved 6/97

MANAGEMENT CONTROL/OVERSIGHT

Although no oversight activities have been conducted at the Irvine facility prior to this surveillance, there appears to be no impact on program quality because of the limited scope of work; the small number of personnel supporting design activities for the Yucca Mountain Project (~8); the fact that management activities are conducted from Las Vegas; and all verification, checking, and review of design documents are conducted in Las Vegas. However, it should be noted that there is the possibility for additional larger scope work to be assigned to remote locations, and oversight should continue in the future.

DOCUMENT CONTROL

Because of the limited number of personnel at the Irvine facility supporting the Yucca Mountain Project, only one set of controlled procedures is assigned to the location. M&O Procedures Manual, Control Number 102410 (QAP), and Control Number 102520 (NAP) issued to J. Salchak were reviewed for currency during the surveillance, including the following procedures:

M&O QAP-2-0, Rev. 4	“Conduct of Activities”
M&O QAP-2-3, Rev. 8	“Classification of Permanent Items”
M&O QAP-3-5, Rev. 7	“Development of Technical Documents”
M&O QAP-3-9, Rev. 7	“Design Analysis”
M&O QAP-3-10, Rev. 7	“Engineering Drawings”
M&O QAP-3-12, Rev. 7	“Transmittal of Design Input”
OCRWM AP-16.1Q, Rev 2	“Performance/Deficiency Reporting”

NOTE: These were not the only documents in the manuals, the manuals appeared to contain all of the appropriate M&O and OCRWM procedures.

PERSONNEL TRAINING AND QUALIFICATION

Qualification and training records, including position descriptions and Reading/Self-Study Records were reviewed for the following personnel:

- A. Amoli
- O. Cano
- S. Ngo
- R. Tome
- B. Fages

One Reading/Self-Study Record had not been completed for O. Cano (QAP-3-5, Revision 7). Mr. Cano had a current revision of the procedure at his work station, and interviews indicated that he was familiar with and had read the current revision to the procedure. A Reading/Self-Study Record was completed with documented evaluation of impact and the oversight corrected during the surveillance; therefore, no deficiency was generated. All other qualification and training records were found to be acceptable.

PERSONNEL INTERVIEWED DURING THE SURVEILLANCE

Jim Salchak
Ahmad Amoli
Oscar Cano
Robert Fages
Sing Ngo
Ron Tome
Mary Woods