



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

FEB 12 1996

L. Dale Foust
Technical Project Officer
for Yucca Mountain
Site Characterization Project
TRW Environmental Safety Systems, Inc.
Bank of America Center, Suite P-110
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Las Vegas, NV 89109

ISSUANCE OF SURVEILLANCE RECORD YMP-SR-96-008 RESULTING FROM
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) SURVEILLANCE
OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT
AND OPERATING CONTRACTOR (CRWMS M&O) (SCPB: N/A)

Enclosed is the record of Surveillance YMP-SR-96-008 conducted by
the YMQAD at the CRWMS M&O facilities at the Yucca Mountain Site,
Nevada, January 4-11, 1996.

The purpose of the surveillance was to evaluate the process for
the collection of Multi-Point Borehole Extensometer core located
at Alcove 5.

Deficiency Reports (DR) YMQAD-96-D032 and YMQAD-96-D033 were
issued as a result of this surveillance. Responses to these DRs,
which were transmitted via separate letter, are due by the date
indicated in Block 10 on the DRs.

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 DRs will continue to be tracked
until they are closed to the satisfaction of the quality
assurance representative and the Director, Office of Quality
Assurance.

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YMP-5

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PDR WASTE
NM-11 PDR

FEB 12 1996

L. Dale Foust

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If you have any questions, please contact either Mario R. Diaz at (702) 794-7974 or John R. Doyle at (702) 794-7986.



Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:MRD-1122

Enclosure:
Surveillance Record YMP-SR-96-008

cc w/encl:

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OFFICE OF
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),
Yucca Mountain Site, Nevada

²SUBJECT:
Multi-Point Borehole Extensionmeter (MPBX)
borehole sample collection and processing.

³DATE: 1/4 - 11/96

⁴SURVEILLANCE OBJECTIVE: to evaluate the process for the collection of MPBX core located at Alcove 5.

⁵SURVEILLANCE SCOPE:
Sample collection from MPBX boreholes # 1 and 2 in Alcove 5.

⁶SURVEILLANCE TEAM:
Team Leader:

John R. Doyle
Additional Team Members:

N/A

⁷PREPARED BY:

John R. Doyle 1/3/96
Surveillance Team Leader Date

⁸CONCURRENCE:

N/A
QA Division Director Date

SURVEILLANCE RESULTS

⁹BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:

See Page(s) 2 & 3

¹⁰SURVEILLANCE CONCLUSIONS:

See Page(s) 3

¹¹COMPLETED BY:

John R. Doyle 2/8/96
Surveillance Team Leader Date

¹²APPROVED BY:

[Signature] 2-8-96
for QA Division Director Date

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

On January 4 through 11, 1996 a surveillance was performed at the Exploratory Studies Facility (ESF) at the Yucca Mountain Site, Nevada to evaluate the process for the collection of MPBX core located at Alcove 5.

MPBX boreholes are boreholes that are drilled and instrumented at various convergence locations in the ESF to monitor rock-mass relaxation and deformation. At the request of a Principal Investigator, core can be collected for site characterization activities.

MPBX boreholes ESF-MDS-MPBX#1 and ESF-MDS-MPBX#2 were cored at Alcove 5 in accordance with the requirements of Job Package (JP) 92-20D, Revision 0, and Test Planning Package (TPP) T-93-2, Revision 4. Core was collected by CRWMS M&O/Drilling Support and Sample Management (DS&SM) personnel as per Nevada Work Instruction (NWI), NWI-DS-001Q, Revision 1, and transported to the Sample Management Facility (SMF).

Examination of core collected at the SMF revealed that the core collected did not have orientation or footage markings required by procedure before transport to the SMF (see Deficiency Report [DR] Yucca Mountain Quality Assurance Division [YMQAD]-96-D032). A review of the Field Packaging Approval utilized by CRWMS M&O/DS&SM revealed that this MPBX core processing was to be performed at the SMF, not at the borehole location as per procedure. Field Packaging Approvals are limited to special packaging or handling conditions required to preserve in-situ conditions that may be required for a specific study. However, they are not to be utilized to supersede or take the place of procedural requirements. Conversations with cognizant personnel indicated the reason for this discrepancy was to preclude hindering tunnel boring operations that were ongoing at the time (see DR YMQAD-96-D032).

In addition, in reviewing the JP and TPP for this activity, it was found that organizations referenced were not those that were performing the work (see DR YMQAD-96-D033).

Documents reviewed during the course of the surveillance:

JP 92-20D, Revision 0, "Construction Monitoring in the Ramps, MTL Drifts and Alcoves"
TPP T-93-2, Revision 4, "Construction Monitoring in the Exploratory Studies Facility"
Yucca Mountain Site Characterization Administrative Procedure YAP-SII.1Q, Revision 1,
"Submittal, Review, and Approval of Requests for Yucca Mountain Site Characterization Project
Geologic Specimens"
NWI-DS-001Q, Revision 1, "Field Logging, Handling and Documenting Borehole Samples"
Field Packaging Approval Request, Buesch to the Sample Overview Committee (SOC),
dtd 1/2/96

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

Personnel Contacted during the course of the surveillance:

Michael Mapa, Deputy Manager of DS&SM, CRWMS M&O/Science Applications International Corp. (SAIC)
Christopher Lewis, Curator SMF, CRWMS M&O/SAIC
Allan Mitchell, Test Coordination Office Coordinator, Los Alamos National Laboratory
Steve Hopkins, Senior Geologist, CRWMS M&O/SAIC

Block 10 (continued) SURVEILLANCE CONCLUSIONS:

Based on documentation reviews, personnel interviews, and the issuance of two DRs, it has been determined that the overall adequacy and effectiveness of implementation is marginally effective.

Two conditions adverse to quality were identified and documented during the course of the surveillance. A summary is as follows:

DR YMQAD-96-D032:

Cores were not videotaped, measured, marked with footage, or orientation marks at the field facility for boreholes ESF-MDS-MPBX #s 1 and 2 in Alcove 5. In addition, these above deviations by the Field Packaging Approval direction of Buesch to the SOC were contrary to the procedural requirements of NWI-DS-001Q.

DR YMQAD-96-D033:

JP 92-20D gives numerous references to Organizations that are no longer participants on the Yucca Mountain Site Characterization Project. The DR will give direction to revise this JP and others that have similar discrepancies to reflect the current organizational responsibilities.