

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION

QUALITY ASSURANCE SURVEILLANCE REPORT OF

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT OFFICE

SAMPLE CONTROL ACTIVITIES

SURVEILLANCE YMP-SR-93-015

CONDUCTED JANUARY 20 THROUGH FEBRUARY 3, 1993

ACTIVITIES SURVEILLED:

FIELD LOGGING, HANDLING, AND PROCESSING OF
CORES FROM THE BOREHOLES THROUGH THE
SAMPLE MANAGEMENT FACILITY

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Approved by: *D. G. Horton* Date: 2/25/93
Donald G. Horton
Director
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1.0 EXECUTIVE SUMMARY

This report contains the results of the Office of Civilian Radioactive Waste Management Quality Assurance (QA) Surveillance YMP-SR-93-015. This surveillance was conducted from January 20 to February 3, 1993, at the UE 25, UZ-16 borehole and the Sample Management Facility (SMF) to access procedural compliance to the requirements to the Yucca Mountain Site Characterization Project Office Branch Technical Procedure BTP-SMF-002, Revision 3, "Transport, Receipt, Admittance, and Processing Borehole Samples for the SMF," and BTP-SMF-008, Revision 3, ICN 2, "Field Logging, Handling and Documenting Borehole Samples." The evaluation of these procedures indicated that implementation was adequate and effective.

No Corrective Action Requests were generated as a result of this surveillance.

2.0 SCOPE

The purpose of this surveillance was to access procedural compliance to the handling, identification, transmittal, and processing of cores from the borehole to the SMF. In addition, the selection of core samples, per special instruction from the Principal Investigator as part of the Job Package, was also included in the surveillance.

Activities surveilled were governed by procedures BTP-SMF-002, Revision 3, and BTP-SMF-008, Revision 3, Interim Change Notice (ICN) 2.

3.0 SURVEILLANCE TEAM

Fred H. Lofftus, Quality Assurance Engineer, Surveillance Team Leader, Yucca Mountain Quality Assurance Division (YMQAD)

Cynthia H. Prater, Quality Assurance Specialist, YMQAD

This surveillance team cooperated on all aspects of the surveillance. There was no specialization by team members.

4.0 PERSONNEL CONTACTED

Arch W. Girdley, Physical Scientist, U.S. Department of Energy
Claude G. Scroggins, Shift Supervisor, Science Applications International Corporation (SAIC)
Diane Y. Hattler, Senior Geologist, SAIC
David Putnam, Drilling Engineer, Raytheon Services Nevada
Jeffrey Kirkwood, Field Geologist, SAIC
Christopher Lewis, SMF Curator, SAIC

David Merritt, SMF Staff Geologist, SAIC
Richard Mamon, Photographer, Johnson Controls
Jack L. 'Homme, SMF Geotechnician, SAIC
Daniel Sanchez, SMF Geotechnician, SAIC

5.0 SURVEILLANCE RESULTS

5.1 Results of Reviewed Procedures

BTP-SMF-002

The Drilling Support and Sample Management courier was observed during the in-process verification of the Field Container Summary and the Transmittal Document. Having verified that the two documents were in agreement, the courier then assumed the responsibility as the "Person Accepting Custody" of the core and transporting it to the SMF, Steps 2 through 9. The unloading operation at the SMF was observed and the documentation reverified for completion. The technician then assumed responsibility as the Person Accepting Custody of the core for the SMF, Steps 10 and 11. The core containers were transferred to the work area where the containers were opened and their contents verified against a Confirmation Checklist. A videotape was taken for the purpose of creating a visual documentation of the existing condition of the core, identification markers, etc., as a final step, before being placed in storage. Resulting documentation was reviewed for accuracy and completion and no deficiencies were noted. In Steps 13 through 18 and 24, the storage facility was visited for the purpose of verifying that the storage containers were identified with five individual permanent labels signifying the content of the containers. No deficiencies were noted.

BTP-SMF-008

The core from Run 261 was observed as it was pulled from borehole UZ-16 and moved to the Logging Trailer, where it was staged for examination, identification and processed for transmittal to the SMF, Steps 3 through 28. In-process documentation consisted of a Field Container Summary and a Transmittal that was reviewed for accuracy and no discrepancies were noted.

5.2 Evaluation of Surveillance Results

The evaluation of these two procedures indicated that implementation was adequate and effective. This surveillance resulted in two ICNs being initiated by the Drilling Support and Sample Management Department to clarify procedural requirements to BTP-SMF-002 and -008. ICN 1 to BTP-SMF-002 is to replace the words "split sample" with "grab sample," which better defines the type of sampling taken. ICN 3 to BTP-SMF-008 is to clarify the

instructions regarding the processing and submittal of QA records the Local Records Center. The two ICNs were verified to be in the process stage for approval but were not issued prior to the closure of this surveillance.

6.0 RECOMMENDATIONS

None.