

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION
QUALITY ASSURANCE SURVEILLANCE REPORT OF
SANDIA NATIONAL LABORATORY DATA
SUBMITTALS INTO THE TECHNICAL DATA BASE
SURVEILLANCE NO. YMP-SR-92-021

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Approved by: Donald G. Horton Date: 8/25/92
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ENCLOSURE

1.0 EXECUTIVE SUMMARY

This surveillance was performed to review the status of the transmittal of data into the Yucca Mountain Project Technical Data Base by Sandia National Laboratories (SNL). The results of this surveillance found that SNL has submitted unqualified data into the Automated Technical Data Tracking System on a Technical Data Information Form (TDIF) that indicated that the data was qualified. Internal SNL Quality Assurance Implementing Procedure (QAIP) 17-2, "Data Records Management System," Revision 0, does not address the definition of qualified data that is contained within Administrative Procedure (AP)-5.1Q, Revision 2, "Control and Transfer of Technical Data on the Yucca Mountain Site Characterization Project." Corrective Action Request (CAR) YM-92-059 was issued to address this deficiency.

The surveillance team reviewed two SAND reports generated as a result of Midway Valley Trenching activities. This work was performed under the auspices of Study Plan No. 8.3.1.17.4.2. The two SAND reports will support a final U.S. Geological Survey (USGS) technical report. However, the Principal Investigator (PI) made statements within each report that they did not belong in the Reference Information Base or the Site and Engineering Properties Data Base. The surveillance team does not necessarily agree that these documents contained no data for inclusion into the Project Technical Data Base, since the information should be qualified if it was done under an approved Study Plan and a qualified Quality Assurance (QA) Program. In addition, if the final USGS report were to be questioned during licensing, the SAND reports could very well be further reviewed to resolve disputes. Having the reports in the Project Technical Data Base makes supporting documentation available and accessible.

The Technical Data Catalog data identification field should be expanded to accommodate the three different types of data that are listed on TDIFs. Currently, the TDIF identifies acquired, developed and transferred data. The catalog only has identification fields for acquired and developed data. See the recommendation contained within Section 6.0 of this report.

2.0 SCOPE

This surveillance was performed to review the status of the submittal of data into the Yucca Mountain Project Technical Data Base by SNL. Data submittals reviewed included the work performed associated with Midway Valley Trenching (Job Package 91-01) and underground nuclear explosion data.

3.0 SURVEILLANCE TEAM

Jerry Heaney, QA Engineer, Science Applications International Corporation (SAIC)/YMQAD, Las Vegas, Nevada, Surveillance Team Leader

Terry Grant, Geologist, SAIC, Field Test Support, Las Vegas, Nevada, Technical Specialist

4.0 PERSONNEL CONTACTED DURING THE SURVEILLANCE

The following personnel were contacted during the course of the surveillance:

Sara Sharpton, SNL, Administration Manager

Joe Shelling, SNL, Technical Staff

Alice Hotchkiss, SNL, Records Manager

Allison Davis, SNL, PI

John Friend, MAC Technical Services, QA Support Leader

Mary Ostrander, Geocenters, Records Coordinator

Debra Wash, Geocenters, Records Technician

Paula Adams, Applied Methods, Records Administrator

Susan Jones, Yucca Mountain Site Characterization Project (YMP) Chief, Regulatory Interaction Branch

Claudia Newberry, YMP

Ardyth Simmons, YMP

5.0 SURVILLANCE RESULTS

As a result of the surveillance CAR No. YM-92-059 was issued. A synopsis is provided below. An information copy of the CAR is enclosed in this report.

CAR No. YM-92-059

SNL has submitted unqualified data into the Automated Technical Data Tracking System by a TDIF that indicated that the data was qualified. All underground nuclear explosion data described as qualified in the Yucca Mountain Site Characterization Project Technical Data Catalog was not collected under a fully qualified QA program nor was the data put through the AP-5.9Q qualification process.

Additionally, SNL procedure QAIP 17-2, Revision 0, does not contain the AP-5.1Q definition of qualified data or instructions on the preparation of the TDIF.

The submittal of two SAND reports covering Midway Valley Trenching activities into the Participant Technical Data Archives was reviewed. These reports were submitted in accordance with requirements.

The report titles were:

SAND Report SAND91-0607, "Preliminary Mapping of Surficial Geology of Midway Valley Yucca Mountain Project, Nye County, Nevada, Interim Data Report"

SAND Report SAND90-2491, "Summary and Evaluation of Existing Geological and Geophysical Data Near Prospective Surface Facilities in Midway Valley, Yucca Mountain Project, Nye County, Nevada"

6.0 RECOMMENDATIONS

The following recommendation is presented for the Yucca Mountain Site Characterization Project Office Technical Data Manager to consider:

Technical Data is put into the Technical Data Catalog by submitting a TDIF along with the data. The TDIF addresses three different types of data, acquired, developed and transferred.

The Technical Data Catalog addresses only two types, acquired and developed. During the surveillance several TDIFs reviewed indicated that data was being transferred but the Technical Data Catalog indicated that the data was developed. It is recommended to expand the identification field in the Technical Data Catalog to accommodate transferred data or explain the system of the identification of transferred data within the catalog or a procedure so that upon request, a future user of the data catalog will know exactly what type of data he/she is receiving.

ENCLOSURE

CORRECTIVE ACTION REQUEST CAR YM-92-059

ORIGINAL
 THIS IS A RED STAMP

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.		CAR NO.: <u>YM-92-59</u> DATE: <u>7/29/92</u> SHEET: <u>1</u> OF <u>1</u> QA
CORRECTIVE ACTION REQUEST		
1 Controlling Document AP-5.1Q, Revision 2		2 Related Report No. SR 92-021
3 Responsible Organization Sandia National Laboratory	4 Discussed With S. Sharpton	
5 Requirement: <p>AP-5.1Q "Control and Transfer of Technical Data on the Yucca Mountain Site Characterisation Project" Revision 2 requires that submittal of data to the Automated Technical Data Tracking System be accompanied by a Technical Data Information Form. Participants must indicate on the form if the data being submitted is qualified.</p> <p>AP-5.1Q defines "qualified data" as data acquired or developed under a fully qualified QA program or qualified in accordance with appropriate YMP procedures. The appropriate YMP procedure is AP-5.9Q "Qualification of Data or Data Analyses Not Developed Under the Yucca Mountain Project Quality Assurance Plan".</p>		
6 Adverse Condition: <p>Sandia has submitted unqualified data into the Automated Technical Data Tracking System by Technical Data Information Forms (TDIF) that indicated that the data was qualified. All underground nuclear explosion data described as qualified in the Yucca Mountain Site Characterisation Project Technical Data Catalog was not collected under a fully qualified QA program nor was the data put through the AP-5.9Q qualification process.</p> <p>Additionally, Sandia procedure QAFP-17.2, Revision 0 does not contain the AP-5.1Q definition of qualified data or instructions on the preparation of the TDIF.</p>		
9 Does a significant condition adverse to quality exist? Yes <u>X</u> No ___ If Yes, Circle One: A <u>(B)</u> C	10 Does a stop work condition exist? Yes ___ No <u>X</u> ; If Yes - Attach copy of SWO If Yes, Circle One: A B C D	11 Response Due Date: 20 Working Days from Transmittal Date.
12 Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination		
13 Recommended Actions: 1. Revise Procedure QAFP 17.2 to include requirements of AP-5.1Q. 2. Determine extent of of misclassified data. Qualify data under AP-5.9Q or reclassify data as non-qualified in data catalog. 3. Train appropriate personnel to new QAFP 17.2 requirements.		
7 Initiator <i>Gerard Heaney</i> Date <u>7-29-92</u>	14 Issuance Approved by: <i>AC Jones</i> Date <u>8/4/92</u>	
15 Response Accepted OAR _____ Date _____	16 Response Accepted OADD _____ Date _____	
17 Amended Response Accepted OAR _____ Date _____	18 Amended Response Accepted OADD _____ Date _____	
19 Corrective Actions Verified OAR _____ Date _____	20 Closure Approved by: OADD _____ Date _____	