



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
P.O. Box 98608
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JAN 26 1995

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Technical Project Officer
for Yucca Mountain
Site Characterization Project
TRW Environmental Safety Systems, Inc.
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ISSUANCE OF SURVEILLANCE RECORD YMP-SR-95-016 RESULTING FROM
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) SURVEILLANCE
OF TECHNICAL AND MANAGEMENT SUPPORT SERVICES (T&MSS) (SCPB: N/A)

Enclosed is the record of Surveillance YMP-SR-95-016 conducted
by the YMQAD at the T&MSS facilities in Las Vegas, Nevada, and
at the field locations at the Yucca Mountain Site, January 4-11,
1995.

The purpose of the surveillance was to evaluate the T&MSS
qualification of Schlumberger Well Services (SWS) and the T&MSS
Quality Assurance surveillance function of the geophysical
logging activities conducted by SWS.

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

If you have any questions, please contact either Robert B.
Constable at 794-7945 or Kenneth O. Gilkerson at 794-7738.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1880

Enclosure:
Surveillance Record
YMP-SR-95-016

YMP-5

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JAN 26 1995

L. Dale Foust

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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:
Technical and Management
Support Services (T&MSS),
Yucca Mountain Site, NV

²SUBJECT:
Geophysical Logging

³DATE: 1/4 through 11/95

⁴SURVEILLANCE OBJECTIVE: Evaluate T&MSS Quality Assurance (QA) oversight of Geophysical Logging Activities

⁵SURVEILLANCE SCOPE:
The scope included the T&MSS QA qualification of Schlumberger Well Services and the T&MSS QA surveillance function of the Geophysical Logging Activities conducted by Schlumberger Well Services.

⁶SURVEILLANCE TEAM:
Team Leader:

Kenneth O. Gilkerson

Additional Team Members:

John R. Doyle

⁷PREPARED BY:

Kenneth O. Gilkerson

1/3/95

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:

K. Gilkerson

Surveillance Team Leader

1/23/95

Date

¹²APPROVED BY:

John R. Doyle

QA Division Director

1-25-95

Date

ENCLOSURE

Block 9 (continued) Basis of Evaluation/Description of Observations:

The Yucca Mountain Quality Assurance Division (YMQAD) surveillance of the Technical and Management Support Services (T&MSS) Quality Assurance's (QA) oversight of the Geophysical Logging activities conducted by Schlumberger Well Services (SWS) included a review of the T&MSS QA Qualification of Schlumberger (re: PO# 390950116-39), observations of the actual field logging activities conducted at the Yucca Mountain Site boreholes USW G-2 and UZ-14, and interviews/observations of T&MSS QA personnel. Additional logging activities not surveilled by YMQAD that were to take place between 1/4/95 and 1/10/95 included boreholes SD-9 and SD-12. T&MSS QA provided oversight of logging activities at all these locations.

It was observed that training and qualification of the following Schlumberger personnel was verified by T&MSS QA:

Field Engineers

T.E. Northcutt
T.H. Hanson III
T.G. Roesner

Operators

H.L. Carter
R.L. Vandenhoek, Jr
H.L. Yaeger

The T&MSS QA personnel additionally determined that Civilian Radioactive Waste Management System /Drilling Support personnel were working to Yucca Mountain Project (YMP) procedure YAP SIII.4Q and that the Schlumberger personnel were working to procedures C-014320, C-014034, and M-090209 as identified in the SWS QA Program. The calibration and set up protocols utilized calipers/tools with the following identification numbers: SGC-SA#645 and TCC-B0738. The SWS logging rig ID was #8303 and crane ID was #4710. It was noted that the drilling support group held up activities until all appropriate approvals had been obtained (e.g. State of Nevada).

Discussions with the Management and Operating (M&O) Contractor Drilling Support and T&MSS QA personnel disclosed that personnel were knowledgeable of procedures and experienced in these work activities.

A review of the T&MSS QA qualification of SWS as a supplier determined that SWS was qualified based on an acceptable past history with Raytheon Services Nevada and a review and acceptance of the SWS QA program. The Supplier Evaluation Report was properly executed and well documented per T&MSS internal QA procedures (SP1.28 Revision 9) and project procedure AP-7.4Q Revision 0.

PERSONNEL CONTACTED:

L.E. Thompson, M&O Drilling Support
David Olsen, M&O Drilling Support
Keith Herrin, M&O Drilling Support
Kent Johnson, T&MSS QA
Paul Hale, T&MSS QA
W.A. Lindquist, T&MSS QA

Block 10 (Continued) SURVEILLANCE CONCLUSIONS:

Based on interviews, observations and reviews of documentation, it was determined that T&MSS QA properly evaluated and subsequently qualified SWS as a qualified supplier in accordance with Office of Civilian Radioactive Waste Management Quality Assurance Requirements Descriptions Document, Sections 4 and 7 requirements. Additionally, it was determined that T&MSS QA adequately executes oversight of the Geophysical Logging activities conducted at the Yucca Mountain Site.