

JUL 8 1991

Mr. Dwight E. Shelor, Acting Associate Director
for Systems and Compliance
Office of Civilian Radioactive Waste Management
U. S. Department of Energy, RW 30
Washington, DC 20585

Dear Mr. Shelor:

SUBJECT: OBSERVATION REPORT NO. 91-S10 ON QUALITY ASSURANCE
SURVEILLANCE YMP-SR-91-021 OF THE RAYTHEON SERVICES
NEVADA

I am transmitting the U. S. Nuclear Regulatory Commission (NRC) Surveillance Observation Report No. 91-S10 for the U. S. Department of Energy (DOE) Yucca Mountain Site Characterization Project Office (YMPO) Quality Assurance (QA) Surveillance No. YMP-SR-91-021 of the Raytheon Services Nevada (RSN) QA program conducted at Las Vegas on June 24 and 25, 1991. A member of the NRC staff participated as an observer on this surveillance.

The NRC staff observed and evaluated the DOE/YMPO QA surveillance to gain confidence that DOE and RSN are properly implementing the requirements of their QA program by assessing the effectiveness of the DOE/YMPO surveillance and determining the adequacy of the RSN QA program in the areas surveilled. The staff's evaluation is based on direct observations of the surveillance process, discussions with the DOE/YMPO auditors and RSN staff, and reviews of pertinent RSN records.

The scope of this surveillance was limited to procedural implementation. No assessment of technical adequacy and qualification of any of the technical documents (technical procedures and laboratory and/or field data) was made during the surveillance.

The staff observer found the DOE/YMPO surveillance of the RSN QA program useful and effective. The auditors were well prepared and were familiar with the RSN QA program and the relevant QA procedure being implemented. The surveillance was well prepared and conducted in determining the adequacy of procedural controls and status of procedural implementation of the RSN QA program under the Code of Federal Regulations Title 10 Part 50, Appendix B.

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The NRC staff agrees with the DOE/YMPO auditors' preliminary conclusion that the RSN QA Program provides adequate procedural controls and procedural implementation under the criteria surveilled.

If you have any questions concerning this report, please contact Kenneth Hooks of my staff at (301)/FTS 492-0447.

Sincerely,

(Original Signed by *Joseph J. Holonich*)

for

John J. Linehan, Acting Director
Repository Licensing and Quality
Assurance Project Directorate
Division of High-Level Waste Management
Office of Nuclear Material Safety
and Safeguards

Enclosure: As Stated

cc: R. Loux, State of Nevada
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SURVEILLANCE OBSERVATION REPORT NO. 91-S10

1.0 INTRODUCTION

Raytheon Services Nevada (RSN), a participant in the Yucca Mountain Site Characterization Project (YMP), is responsible to the U. S. Department of Energy (DOE) Yucca Mountain Site Characterization Project Office for providing architecture and engineering services to support the investigations at Yucca Mountain in support of testing to determine the suitability of the site for a potential high-level waste repository. RSN is responsible for the design and inspection of the Exploratory Studies Facility, both surface and subsurface. RSN also provides support for the Surface Based Testing Program in the form of drilling engineering, materials testing, and non-destructive examination.

On June 24 and 25, 1991, the U. S. Department of Energy (DOE)/Yucca Mountain Site Characterization Project Office (YMPO) conducted a quality assurance (QA) surveillance (YMP-SR-91-021) of the RSN YMP QA program at the Yucca Mountain Site. This surveillance was conducted in accordance with the YMPO Quality Management Procedure (QMP)-18-02, Revision 2, "Surveillance." A member of the U. S. Nuclear Regulatory Commission (NRC) staff participated in the surveillance as an observer. This report documents the staff's assessment of the effectiveness of the DOE/YMPO surveillance, the adequacy of the RSN QA program procedural controls, and procedural implementation under Criteria I, V, XVI, and XVIII of the Code of Federal Regulations Title 10, Part 50, Appendix B.

2.0 PURPOSE

This DOE/YMPO surveillance evaluated the adequacy of procedural controls and their implementation under selected program elements of the RSN QA program. The staff's purpose in observing this surveillance was to gain confidence that the DOE and its contractor are properly implementing the requirements of their QA programs by assessing the effectiveness of the DOE/YMPO surveillance and determining the adequacy of the RSN QA program in the areas surveilled.

3.0 SCOPE

The DOE/YMPO auditors selected Criteria I, "Organization;" V, "Instructions Procedures and Drawings;" XVI, "Corrective Action;" and XVIII, "Audits" from the RSN QA Program Plan (QAPP) for review and assessment of adequacy of procedural controls and procedural implementation. The scope of this surveillance did not include any review of the technical adequacy and qualification of technical products and activities such as technical procedures, laboratory notebooks and data, or field notebooks and data.

ENCLOSURE

4.0 SURVEILLANCE PARTICIPANTS

DOE/YMPO - John Martin and Bob Klemens, Science Application
International Corporation.

NRC - John W. Gilray, Observer

5.0 SURVEILLANCE SUMMARY RESULTS

The DOE/YMPO auditors reviewed the RSN QA Program Description for the YMP and the following RSN quality procedures: QAP 1.1, "Organization;" QAP 5.1, "Development of QA Procedures;" QAP 6.1, "QA Controlled Document Distribution;" QAP 6.2, "Review of Documents;" QAP 16.1, "Deficiency Reporting;" QAP 16.2, "Corrective Action;" QAP 16.3, "Trend Analysis;" QAP 18.1, "Audits;" and QAP 18.2, "Surveillances" to identify applicable QA requirements. The RSN QA Program Description for the YMP was approved by the YMPO February 22, 1991, and is in full implementation.

The auditors concluded that the procedural controls under Criteria I, V, XVI, and XVIII are generally adequate, and their procedural implementation is satisfactory. No adverse procedural or implementation deficiencies were identified.

6.0 CONTACTED DURING THE SURVEILLANCE

Mike Regenda, Manager, Quality Assurance
Richard Bullock, Technical Project Officer
Arshad Ali, Manager, Audit and Surveillance
Dan Tunney, Manager, QA Engineering
Ron Sabol, QA Sr. Specialist
Bob Dahlberg, QA Specialist
Harry Tutthill, Manager, Quality Control

7.0 NRC CONCLUSIONS

The staff observer found the DOE/YMPO surveillance of the RSN QA program useful and effective. The DOE/YMPO auditors were well prepared and were familiar with the RSN requirements and relevant implementing procedures for the areas surveilled. The surveillance plan for this surveillance was well thought-out and used in determining the adequacy of procedural controls under Criteria I, V, XVI, and XVIII. The auditors were thorough and professional in conducting the surveillance, and asked substantive questions to gain information required to demonstrate adequacy of implementation.

In general, the RSN personnel were cooperative, and retrievability of documentation requested by the auditors was generally very good.

The NRC staff agrees with the DOE/YMPO auditors' preliminary conclusions that the RSN QA program provides adequate procedural controls and that the procedural implementation covered by this surveillance is also adequate.