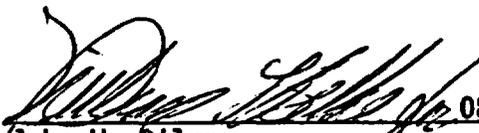
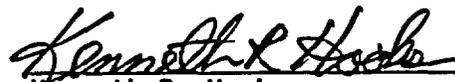


U.S. NUCLEAR REGULATORY COMMISSION
OBSERVATION SURVEILLANCE REPORT NO. 93-S4
OF THE OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
SURVEILLANCE NO. YMP-SR-93-033 OF THE
CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM
MANAGEMENT AND OPERATING CONTRACTOR


08/24/93
John W. Gilray
Repository Licensing and Quality
Assurance Project Directorate
Division of High-Level Waste Management

Reviewed and Approved by:


08/24/93
Kenneth R. Hooks
Repository Licensing and Quality
Assurance Project Directorate
Division of High-Level Waste Management

OBSERVATION SURVEILLANCE REPORT NO. 93-S4

1.0 INTRODUCTION

From July 15-16, 1993, the U.S. Department of Energy (DOE) Office of Civilian Radioactive Waste Management, Yucca Mountain Quality Assurance Division (YMQAD) conducted Quality Assurance (QA) Surveillance No. YMP-SR-93-033 of the Civilian Radioactive Waste Management System Management, and Operating Contractor (M&O) in Las Vegas, Nevada.

2.0 PURPOSE

The U.S. Nuclear Regulatory Commission staff observed and evaluated the YMQAD QA surveillance to gain confidence that the YMQAD and M&O are properly implementing the requirements of their QA programs by assessing the effectiveness of the YMQAD surveillance and the adequacy of the M&O QA program in the areas surveilled. The NRC staff's evaluation is based on direct observations of the surveillance process, discussions with the surveillance team members, and reviews of the pertinent M&O records.

3.0 SCOPE

The scope of this surveillance was to review the design process utilized for the development and processing of design drawings involving the realignment of the Exploratory Studies Facility Starter Tunnel. The surveillance included an evaluation of the effectiveness of the design control process and the extent QA program requirements are complied with.

4.0 SURVEILLANCE PARTICIPANTS

4.1 NRC

John Gilray Observer

4.2 DOE/YMQAD

Sam Horton Surveillance Team Leader
Jerry Heaney Team Member

4.3 DOE/OCRWM

A. Mozhi Observer
M. Sinderling Observer

4.4 M&O/Vienna, VA

J. Penaker Observer

4.5 State of Nevada

Susan Zimmerman Observer

5.0 SURVEILLANCE SUMMARY RESULTS

Four preliminary Corrective Action Requests (CARs) were identified by the surveillance team in the areas of inadequacies of design reviews, design inputs and lack of design input information to be verified. One preliminary CAR was issued against the Yucca Mountain Site Characterization Project Office (YMPO) for not properly identifying the review organizations and the method for the design change organization. The other three preliminary CARs were issued against the M&O for not properly addressing design inputs, not documenting the basis for impact analysis, and omitting a requirement to be verified.

Based on the surveillance findings, the surveillance team concluded that this portion of the M&O design process was ineffective. During the surveillance exit it was emphasized by YMPO that M&O management should recognize the seriousness of the findings and the importance of assuring that prompt corrective actions are identified and implemented to correct the affected design drawings and to preclude recurrence of similar deficiencies.

6.0 NRC CONCLUSIONS

The NRC staff has determined that the YMQAD surveillance of the M&O design control process was useful and effective. The NRC staff agrees with the surveillance team's preliminary conclusion that the M&O design process was ineffective in the areas surveilled.

The NRC staff will continue to closely monitor the implementation of the M&O QA program, especially in the area of design, to ensure that the deficiencies identified during this surveillance are corrected in a timely manner and that QA program implementation is effective.