

**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 98608  
Las Vegas, NV 89193-8608

**AUG 17 1995**

Toby D. Wightman  
Kiewit/Parsons Brinkerhoff  
4460 S. Arville St., Suite 6  
Las Vegas, Nevada 89102

ISSUANCE OF SURVEILLANCE RECORD YMP-SR-95-039 RESULTING FROM  
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) SURVEILLANCE  
OF KIEWIT/PARSONS BRINKERHOFF (KIEWIT/PB) (SCPB: N/A)

Enclosed is the record of Surveillance YMP-SR-95-039 conducted by  
the YMQAD at the Kiewit/PB facilities in Las Vegas, Nevada, June  
21 through July 11, 1995.

The purpose of the surveillance was to verify compliance with  
requirements of the applicable procedures and specifications for  
selection and documenting of ground support installed in the  
Topopah Springs North Ramp.

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

If you have any questions, please contact either Mario R. Diaz at  
794-7974 or Robert L. Holliday at 794-7236.

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:MRD-4262

Enclosure:  
Surveillance Record YMP-SR-95-039

220082

YMP-5

9508220238 950817  
PDR WASTE  
WM-11 PDR

102.7  
WM-11  
MAB

OFFICE OF  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

QUALITY ASSURANCE SURVEILLANCE RECORD

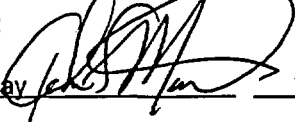
SURVEILLANCE DATA

<sup>1</sup> ORGANIZATION/LOCATION: Kiewit/Parsons Brinkerhoff (K/PB) Exploratory Shaft Facilities (ESF)	<sup>2</sup> SUBJECT: Selection and Documentation of Ground Support installed in ESF.	<sup>3</sup> DATE: June 21, 1995 through July 11, 1995
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<sup>4</sup>SURVEILLANCE OBJECTIVE:  
To verify compliance with requirements of the applicable procedures and specifications for selection and documenting of ground support installed in the Topopah Springs (TS) North Ramp.

<sup>5</sup>SURVEILLANCE SCOPE:  
This surveillance includes those activities associated with the selection/  
determination and documentation of the installation of ground support in  
accordance with Kiewit/PB Technical Control Procedure, (TCP)-2.16  
"PROCEDURE FOR DETERMINING GROUND SUPPORT REQUIREMENTS  
FOR TS NORTH RAMP TUNNELING AND ASSOCIATED ALCOVES."

<sup>6</sup>SURVEILLANCE TEAM:  
Team Leader:  
Robert L. Holliday  
\_\_\_\_\_  
Additional Team Members:  
None  
\_\_\_\_\_

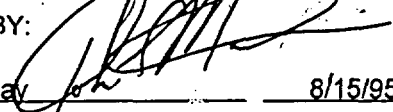
<sup>7</sup>PREPARED BY:  
*for*  
Robert L. Holliday  8/15/95  
\_\_\_\_\_  
Surveillance Team Leader      Date

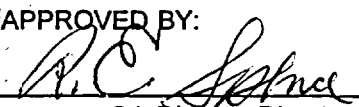
<sup>8</sup>CONCURRENCE:  
*NA*  
\_\_\_\_\_  
QA Division Director      Date

SURVEILLANCE RESULTS

<sup>9</sup>BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:  
See Page(s) 2

<sup>10</sup>SURVEILLANCE CONCLUSIONS:  
See Page(s) 3

<sup>11</sup>COMPLETED BY:  
*for*  
Robert L. Holliday  8/15/95  
\_\_\_\_\_  
Surveillance Team Leader      Date

<sup>12</sup>APPROVED BY:  
 8/16/95  
\_\_\_\_\_  
QA Division Director      Date

**Block 9 (continued) BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:**

This surveillance was performed of Kiewit/PB from June 21 to July 11, 1995. The purpose was to evaluate and verify acceptability of activities by the K/PB Tunnel Walker(s) and the M&O Architect/Engineer (A/E) Title III Engineer(s), involving the assessment and determination/selection and documentation of Ground Support Category to be installed in the ESF.

The surveillance consisted of a documentation review, personnel interviews, and direct observation of installed ground support.

The K/PB Tunnel Walker observes ground conditions at the tail shield and makes an initial assessment of the Ground Support Category to be used, based ground conditions and a concern for safety. The initial assessment is also based on the Tunnel Walkers judgement and experience and in consultation with the A/E Title III Engineer. Kiewit/PB procedure TCP-2.16, Rev. 2 "Procedure for Determining Ground Support Requirements for TS North Ramp Tunneling and Associated Alcoves" provides guidance for documenting ground support determination. Ground Support Determination Reports (GSDRs) from TCP-2.16 are signed by the Tunnel Walker and concurrence signature is provided by the Title III Engineer for ground support selection. Any pertinent data or information deemed necessary during the ground support determination is provided in the "Notes" section of the GSDRs.

During the course of the surveillance ten GSDRs were selected covering a period from 5/26/95 through 6/21/95. These reports were reviewed for completeness, acceptance by Kiewit/PB Supervisory personnel and concurrence by the M&O A/E Title III Engineer as required by Kiewit/PB procedure TCP-2.16. In general these reports were found to be in compliance with TCP-2.16 and acceptable. The reports reviewed were:

GSDR No. 052695-3-39, dated 5/26/95, Station 8+15,  
GSDR No. 052695-1-40, dated 5/26/95, Station 8+22,  
GSDR No. 052695-Day, dated 5/26/95, Station 8+22, 68,  
GSDR No. 053195-1-41, dated 5/31/95, Station 8+63.97,  
GSDR No. 053195-1-42, dated 5/31/95, Station 8+63.97,  
GSDR No. 64 dated 6/13/95, Station 10+08.37 thru 10+14.45,  
GSDR No. 68 dated 6/14/95, Station 10+08.37,  
GSDR No. 062195-3-87, dated 6/21/95, Station 10+81 thru 10+87,  
GSDR No. 062195-1-88, dated 6/21/95, Station 10+87.15 thru 10+90.28,  
GSDR No. 062195-2-89, dated 6/21/95, Station 10+90.

Direct observation of the installed ground support system versus the GSDRs was performed to assure an accurate accounting and documentation of the ground support. No anomalies were found between the documented ground support system and that which had been installed.

Personnel interviews were conducted to ascertain the Tunnel Walker's and A/E Title III Engineer's cognizance and understanding of procedural requirements delineated by TCP-2.16. Based on these interviews it was determined that these individuals had a thorough knowledge and understanding of TCP-2.16

In addition to the above, personnel qualification and training files were reviewed to verify that Shift Superintendents and Tunnel Walkers met the minimum requirements specified by Kiewit/PB Yucca Mountain Position Descriptions for Shift Superintendents and Tunnel Walkers. These requirements are stipulated in Kiewit/PB Management Control Procedure (MCP)-2.4, Rev. 5, "Indoctrination, Training and Qualification." In review of these files it was found that for the personnel listed below all requirements for the positions were met.

Terry Beasley -- K/PB Shift Superintendent  
Allen Carter -- K/PB Tunnel Superintendent  
Kenneth Quintana -- K/PB Shift Superintendent  
Justin Benoit -- K/PB Tunnel Walker  
John Mahoney -- K/PB Tunnel Walker  
Byron Warenski -- K/PB Tunnel Walker  
James L. Young Jr. -- K/PB Tunnel Walker

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

Joseph W. Willis, M&O/Duke  
Jon Christensen, K/PB  
Rob Howard, M&O/Thompson, Ramo, Woolridge (TRW)  
Ronald Berlien, M&O/TRW  
George Vaslos, M&O/Flour-Daniel (FD)  
Mark Ramsey, K/PB  
Robert A. Skorseth, M&O/Morrison-Knudsen (MK)  
Robert Kehrman, M&O  
Carey A. Johnson, K/PB  
Howard Cox, K/PB  
Toni Caselli, K/PB  
Bonnie J. Howe, M&O/TRW  
Mary Brown, K/PB  
Cheryl M. Haas, K/PB

**Block 10 (continued) SURVEILLANCE CONCLUSIONS:**

Based on the review of GSDRs, observation of actual ground conditions and ground support installed, and interviews of personnel directly responsible for ground condition evaluations and determination of ground support requirements, it is felt that both Kiewit/PB and the M&O A/E Title III Engineer are complying with all applicable specification and drawing requirements.

Additionally, review of position descriptions, personnel qualifications and training records were found to be in accordance with procedural requirements.

No deficiencies or discrepancies were found and the results of this surveillance are considered to be satisfactory.

RECOMMENDATIONS:

None

STATEMENT OF OVERALL ACCEPTABILITY

The activities surveilled by this surveillance were found to be performed in accordance with procedural and specification requirements and are considered as acceptable.

AUG 17 1995

## cc w/encl:

D. A. Dreyfus, HQ (RW-1) FORS  
R. W. Clark, HQ (RW-3.1) FORS  
W. L. Belke, NRC, Las Vegas, NV  
~~J. G. Spraul, NRC, Washington, DC~~  
R. R. Loux, NWPO, Carson City, NV  
Cyril Schank, Churchill County Commission, Fallon, NV  
D. A. Bechtel, Clark County Comprehensive, Las Vegas, NV  
J. D. Hoffman, Esmeralda County, Goldfield, NV  
Eureka County Board of Commissioners, Eureka, NV  
Lander County Board of Commissioners, Battle Mountain, NV  
Jason Pitts, Lincoln County, Pioche, NV  
V. E. Poe, Mineral County, Hawthorne, NV  
P. A. Niedzielski-Eichner, Nye County, Chantilly, VA  
L. W. Bradshaw, Nye County, Tonopah, NV  
William Offutt, Nye County, Tonopah, NV  
Florindo Mariani, White Pine County, Ely, NV  
B. R. Mettam, County of Inyo, Independence, CA  
Mifflin and Associates, Las Vegas, NV  
S. L. Bolivar, LANL, Los Alamos, NM  
R. E. Monks, LLNL, Livermore, CA  
W. J. Glasser, REECO, Las Vegas, NV  
J. D. Christensen, Kiewit/PB, Las Vegas, NV  
R. R. Richards, SNL, Albuquerque, NM, M/S 1333  
R. P. Ruth, M&O, Las Vegas, NV  
T. H. Chaney, USGS, Denver, CO  
C. K. Van House, YMQAD/QATSS, Las Vegas, NV  
A. W. Rabe, YMQAD/QATSS, Las Vegas, NV  
C. J. Henkel, NEI, Washington, DC