



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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TO: John J. Linehan, Director, HLPD
Division of High-Level Waste Management, M/S 4-H-3

FROM: Paul T. Prestholt, Sr. On-Site Licensing Representative

DATE: November 1, 1989

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING

Please find enclosed the above-referenced report received in this office, i.e., week ending September 24, 1989.

PTP:nan
Enclosure

cc: Carl Johnson
Agency for Nuclear Projects
Nuclear Waste Project Office
Capitol Complex
Carson City, Nevada 89710

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WEEKLY ACTIVITY REPORT
PROTOTYPE TESTING
Week Ending - September 24, 1989

Participants:

- Los Alamos - Manage and Integrate Prototype Testing and conduct tests.
- Sandia National Laboratories - Manage the operations at G-Tunnel and perform tests.
- U. S. Geological Survey (U. S. Bureau of Reclamation, and Lawrence Berkeley Laboratory) - Perform tests.
- Lawrence Livermore National Laboratory - Perform tests.
- Holmes and Narver - Provide surveying and other support.
- Fenix and Scisson of Nevada - Provide plans, test networks, and cost estimates.
- REECO - Provide mining equipment, perform drilling and mining, and provide support labor.
- Pan Am - Provide photographic support.

Key Prototype Activities for the Reporting Period:

LLNL

Engineered Barrier Horizontal - Overcore:

Hole U12G-P2 - This overcore hole is located in the LLNL instrumentation alcove. The LY 38 drill rig was mobilized, and drilling commenced on this 12 inch overcore hole. Total depth at the end of this reporting period is 13.0 feet. Total footage drilled during this reporting period is 13.0 feet. No core was removed from the core barrel during this reporting period. Drilling was accomplished in welded tuff, using water as a drilling medium. The heater assembly was centered in the 12 inch overcore, as drilling proceeded. Drilling will continue during the next reporting period. There was a 3.5 hour electrical delay.

USGS

Intact Fracture:

The Intact Fracture test was completed September 22, 1989. Currently, there are not any plans to perform more activities for this test. The LY 34 drill rig is being demobilized.

Optimal Rubble (CBI):

Instrumentation Alcove: Fifty 10 foot x 1 7/8 inch blast holes were drilled; 18 perimeter holes, 32-production holes, and 1-4 inch burn holes. The top perimeter holes (10) and lifters (8) were drilled with a jack leg drill, while the remaining holes were drilled using the Atlas-Copco drill jumbo. The Pan Am photographers took pictures of the blast round. The round will be loaded and blasted Monday of the next reporting period. Total depth of alcove is 33 feet from the centerline of the Demo Drift.

SNL

Equipment Modification and Development:

Chain Saw Modification - The LY 34 drill rig was mobilized into the Laser Drift, 66 feet from the centerline of the EV-6 Drift. An 8 inch hole was drilled 52 inches into the invert. No core was saved, and the LY 34 drill rig was demobilized. The SNL chain saw will be setup at this location and a slot will be cut in the invert beginning at the 8 inch drill hole.

G-Tunnel Drifting:

Stubb Drift - Blast hole drilling of an 8 foot round was started. Hole diameter is 1 7/8 inches. Drilling is approximately 40% complete. Location of the stub drift is 10 feet from the start of the Demo Drift on the right rib. Total depth for this drift is 17 feet from the centerline of the Demo Drift. Dimensions: 14 feet high x 13 feet wide.

Demo #2 Drift - No work was accomplished on this drift during this reporting period.

Ventilation - The Jetair axi-flow 100 Hp fan was replaced with another 100 Hp Jetair axi-flow fan. Also a second 100 Hp fan was installed at the intersection of U12G drift and EV-6 drift to increase ventilation in the testing areas.

Scheduled Activities:

1. Blast Effects - start October 9, 1989.
2. Excavation Effects - start October 23, 1989.
3. In-Situ Stress - Phase II - start October 11, 1989.
4. Thermal Stress - start December 11, 1989.

EXPENDITURES:

.Prototype Testing:	Work Days Remain	<u>5</u>	Expended	<u>98</u> %
.REECO: Current Week-Prototype Testing	\$	10,558	Year to Date \$	941,639
Current Week-G-Tunnel Operation	\$	37,092	Year to Date \$	1,121,784
.H&N: Current Week-Prototype Testing	\$	7,993	Year to Date \$	311,403
.F&S: Current Week-Prototype Testing	\$	5,299	Year to Date \$	183,888