



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: August 24, 1989

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING

Please find enclosed the above-referenced report received in this office, i.e., week ending July 23, 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 - July 23, 1989

LLNL

Engineered Barrier:

There has not been any NTS activity during this reporting period. LLNL drilling plans have not changed, and overcoring is still scheduled to begin August 1, 1989.

USGS

Cross Hole:

There has not been any NTS activity during this reporting period. Modification of packers and instrumentation is continuing. Tentatively, field work for this test should begin on October 2, 1989.

Wet and Dry Drilling:

Data collection is continuing on the four test holes located in the U12g12 drift. No further field work is planned for this test.

Drill Hole Instrumentation:

Data collection is continuing on the two test holes located near the end of the U12g12 drift. No further field work is anticipated for this test.

Blast Effects:

There has not been any NTS activity during this reporting period. Field work for this test is tentatively scheduled to begin on September 18, 1989.

Excavation Effects:

There has not been any NTS activity during this reporting period. Field work for this test is tentatively scheduled to begin on October 9, 1989.

Perched Water:

Drilling on PW #4 continued. Total depth is approximately 100 feet. The majority of the field work for this test is complete. A number of 3/8 inch holes 1 foot deep is the only work left in G-Tunnel. The PI will accomplish this task at a later date.

Controlled Blasting:

This test has been incorporated into the Optimal Rubble Size Test, and the Excavation Effects Test. There will be no further activity on this test. Therefore, no further reporting on this test will take place.

In-Situ Stress:

There has not been any NTS activity during this report period. Phase I field work for this test is now complete.

Intact Fracture:

The Intact Fracture Test started on July 17, 1989. This test is located at the end of the Experimental Drift. A 3/4 inch hole was drilled in two locations at the face of the Experimental Drift, and overcored a diameter of 10 inches. Radial Fracture #1 (RF #1) was drilled 24 inches deep with a 3/4 inch bit. Anchor bolts were then installed in the 3/4 inch hole, and a 10 inch overcore was drilled to a depth of 22 inches. The PI then removed the core which was fractured pretty badly. The 3/4 inch bit was reattached and drilled to a total depth of 45 inches. The 10 inch overcore barrel was then installed and core drilled to the total depth. This core was not able to be saved as it was too badly fractured. The drill rig was then moved to the RF #2 location and a 3/4 inch hole drilled to a depth of 24 inches. The intact fracture PI will continue to take overcore samples during the next reporting period.

Fran Ridge Mapping:

There has not been any NTS activity during this reporting period. The prototype mapping at Fran Ridge cannot begin until the proper permits are obtained from the state.

Optimal Rubble:

An HQ cored hole was started and drilled to a total depth of 30 feet. Core recovery was 98%, and the longest piece of core recovered was .9 feet. All core was sealed in lexan liners. This hole will be drilled to a total depth of approximately 50 feet.

LANL

Diffusion Test:

Data collection is continuing for DH #2 in the Experiment Drift, and DH #3 in the CFE 3 and 4 drift. Phase II (instrumentation overcoring) cannot proceed until the CMM-2 drill is procured and delivered to G-Tunnel.

SNL

Thermal Stress:

There has not been any NTS activity during this reporting period. Field work for this test is tentatively scheduled to start on October 2, 1989.

G-Tunnel Drifting:

The Alpine miners began work on the Thermal Stress Drift, which is located in the right rib of the EV-6 incline. Total drift footage at the end of this reporting period is 10 feet. Work will continue on the Thermal Stress Drift and the Demo #2 drift as the miners have free time.

PROBLEMS AND ISSUES:

None

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>49</u>	Expended	<u>80 %</u>
.REECO: Current Week-Prototype Testing	\$ 32,622		Year to Date \$ 461,505	
Current Week-G-Tunnel Operation	\$ 42,793		Year to Date \$ 840,738	
.H&N: Current Week-Prototype Testing	\$ 5,862		Year to Date \$ 233,618	
.F&S: Current Week-Prototype Testing	\$ *		Year to Date \$ *	

*Information not available at the time of this report.