



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: September 21, 1989

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING

Please find enclosed the above-referenced report received in this office, i.e., week ending August 13, 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 - August 13, 1989

LLNL

Engineered Barrier:

The 12 inch core barrel drilled into a rock bolt, which threw the alignment off, and ruined the bit. Drilling is still progressing on hole NE-2A. Total depth on this hole is 14.4 feet. The longest piece of core recovered is 4.3 feet. The core is broken, and the REECO driller has resharpened the core bit twice.

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 25, 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. Work on the addendum of the drift blasting to this test is in process.

Perched Water:

There has not been any NTS activity during this reporting period.

In-Situ Stress:

There has not been any NTS activity during this reporting period. Phase I field work for this test is now complete. Phase II field work will tentatively begin November 13, 1989.

Intact Fracture:

Core was retrieved from RF-4 and RF-5. Drilling began on RF-6 August 11, 1989. The USGS PI is using the same procedure used previously, and is successfully removing the core from the rib after drilling is complete. Two feet of core was recovered from RF-4, and 2.5 feet of core was recovered from RF-5. This drilling is taking place in non-welded tuff near the refuge station in the RS-14 drift.

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:

The controlled blasting phase of this test is tentatively scheduled to begin on August 21, 1989. REECO personnel have begun to remove wire mesh, and rock bolts to prepare for the beginning of this test.

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 Miner was transported to the shop, outside the portal, to work on the boom. The Atlas-Copco drill jumbo was used to drill out a 9 foot round in the Thermal Stress drift. Twenty-nine holes were drilled, and 250 lbs of powder were used to blast the round. Wire mesh and rock bolts were installed. Friday, August 11, 1989, the Alpine Miner was transported back into G-Tunnel, and began cutting. Total distance during this reporting period is 43 feet from the centerline of the EV-6 drift.

EXPENDITURES

| | Work Days Remain | | Expended | |
|--|------------------|--------------|------------|---|
| .Prototype Testing: | <u>34</u> | | <u>86</u> | % |
| .REECO: Current Week-Prototype Testing | \$ 21,902 | Year to Date | \$ 514,148 | |
| Current Week-G-Tunnel Operation | \$ 30,124 | Year to Date | \$ 933,284 | |
| .H&N: Current Week-Prototype Testing | \$ 7,235 | Year to Date | \$ 266,390 | |
| .F&S: Current Week-Prototype Testing | \$ 3,616 | Year to Date | \$ 146,515 | |

***Information not available at the time of this report.**