



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

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

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

DATE: March 27, 1989

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING

Please find enclosed the above-referenced report received in this office, i.e., for week ending February 19 and February 26, 1989.

PTP:nan  
Enclosure

cc w/enc.: 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 - February 19, 1989

ACCOMPLISHMENTS

- .TM - Readiness reviews were conducted for Prototype Perched Water and Thermal Stress Tests.
- .LLNL - Engineered Barrier: Continued data acquisition on the Horizontal Heater Test.
- .USGS - Cross Hole: No NTS activity.
  - Wet and Dry Drilling: Continued data collection on the four test holes.
  - Drill Hole Instrumentation: Data acquisition and equilibration continues.
  - Mapping: Yucca Mountain Project approval of FR (Fran Ridge) work order delayed.
  - Intact Fracture: Core barrels ordered through REECO. Delivery delayed.
  - Rubble Coring: Conducted kick-off meeting, moisture instrumentation ordered through REECO.
  - Blast Effects: Finalized criteria letter mailed to Las Vegas.
  - Excavation Effects: Finalized criteria letter mailed to SNL.
  - Perched Water: Readiness review completed.
- .LANL - Diffusion Test: Test in progress in DH #2. Drilling started in DH #3 suspended.
- .SNL - Thermal Stress: Readiness review completed.

PLANNED WORK

- .LLNL - Engineered Barrier: Continue data acquisition on Horizontal Heater Test. Develop Vertical Test criteria letter.
- .USGS - Mapping: Start FR mapping as Yucca Mountain Project authorization is obtained.
  - Cross Hole: Start deployment of packer apparatus postponed because of wiring problems. Effort rescheduled for April 17, 1989.
  - Intact Fracture: Obtain an open work order.
  - Drill Hole Instrumentation: Continue instrumentation equilibration period and data acquisition.
  - Wet and Dry Drilling: Continue data collection on test holes.
  - Rubble Coring: Obtain an open work order. Drilling to start upon completion of non-welded diffusion overcoring operation. (DH #2)
  - In-Situ Stress: Obtain a Yucca Mountain Project Office approved criteria letter.
  - Controlled Blasting: Continue consolidation of related tests and obtain an Yucca Mountain Project Office approved work order.

- Blast Effects: Obtain an open work order.
  - Excavation Effects: Obtain an open work order.
  - Optimal Rubble Size: Obtain an open work order.
  - Perched Water: Obtain an open work order.
- .LANL - Diffusion: Continue and monitor solute injection in DH#2. Reinstall packed assembly in DH #3, evaluate drilling results, obtain revised drilling procedures.
- .SNL - Thermal Stress: Obtain an open work order.

PROBLEMS/ISSUES

Prototype testing drilling is suspended. Approved pending opening of approved work orders and equipment delivery delays.

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>157</u>	Expended	<u>37</u> %
.REEC0:	Current Week-Prototype Testing	\$ 3,850	Year to Date	\$ 68,975
	Current Week-G-Tunnel Operation	\$ 19,016	Year to Date	\$359,188
.H&N:	Current Week-Prototype Testing	\$ 2,927	Year to Date	\$ 76,255
.F&S:	Current Week-Prototype Testing	\$ *	Year to Date	\$ *

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

WEEKLY ACTIVITY REPORT  
PROTOTYPE TESTING  
Week Ending - February 26, 1989

ACCOMPLISHMENTS

- .TM - Met with F&S to expedite drilling equipment procurements.
- .LLNL - Engineered Barrier: Continued data acquisition on the Horizontal Heater Test.
- .USGS - Cross Hole: Located wiring problem in packer assemblies.  
- Wet and Dry Drilling: Continued data collection on the four test holes.  
- Drill Hole Instrumentation: Data acquisition continues.  
- Mapping: Yucca Mountain Project approval of FR (Fran Ridge) work order delayed.  
- Intact Fracture: Core barrels ordered through REECO, delivery delayed to March 6, 1989.  
- Rubble Coring: Work order opened, equipment delivery delayed to mid-March. Tentative drilling start March 21, 1989.  
- Blast Effects: Finalized criteria letter mailed to Las Vegas.  
- Excavation Effects: Finalized criteria letter mailed to SNL.  
- Perched Water: Readiness review completed.
- .LANL - Diffusion Test: Test in progress in DH #2.
- .SNL - Thermal Stress: Readiness review completed.

PLANNED WORK

- .LLNL - Engineered Barrier: Continue data acquisition on Horizontal Heater Test. Develop Vertical Test criteria letter.
- .USGS - Mapping: Start FR mapping as Yucca Mountain Project authorization is obtained.  
- Cross Hole: Field deployment effort rescheduled for April 17, 1989.  
- Intact Fracture: Obtain an open work order. Start drilling March 6, 1989.  
- Drill Hole Instrumentation: Continue instrumentation data acquisition.  
- Wet and Dry Drilling: Continue data collection on test holes.  
- Rubble Coring: Drilling to start tentatively March 21, 1989.  
- In-Situ Stress: Obtain a Yucca Mountain Project Office approved criteria letter.  
- Controlled Blasting: Continue consolidation of related tests and obtain an Yucca Mountain Project Office approved work order.  
- Blast Effects: Obtain an open work order.  
- Excavation Effects: Obtain an open work order.  
- Optimal Rubble Size: Start non-welded rubble collection ASAP.

- Perched Water: Obtain an open work order.
- .LANL - Diffusion: Continue and monitor solute injection in DH#2. Reinstall packed assembly in DH #3, evaluate drilling results, obtain revised drilling procedures.
- .SNL - Thermal Stress: Obtain an open work order.

PROBLEMS/ISSUES

Prototype testing drilling is suspended, pending opening of approved work orders and equipment delivery delays.

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>152</u>	Expended	<u>39</u> %
.REECO:	Current Week-Prototype Testing	\$ 719	Year to Date \$	69,694
	Current Week-G-Tunnel Operation	\$ 20,810	Year to Date \$	379,998
.H&N:	Current Week-Prototype Testing	\$ 1,507	Year to Date \$	77,762
.F&S:	Current Week-Prototype Testing	\$ *	Year to Date \$	.*

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