



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: May 4, 1989

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING

Please find enclosed the above-referenced report (3), received in this office, i.e., week ending April 2, 9, and 16, 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 REPORTPROTOTYPE TESTINGWeek Ending - April 2, 1989ACCOMPLISHMENTS

- .LLNL - Engineered Barrier: Continuing cool down measurements.
- .USGS - Cross Hole: No NTS activity.
 - Wet and Dry Drilling: Continued data collection on the four test holes.
 - Drill Hole Instrumentation: Data acquisition continues.
 - Mapping: Yucca Mountain Project approval of Fran Ridge (FR) work order delayed.
 - Intact Fracture: Drilling suspended March 24, 1989 and will resume at a later date.
 - Rubble Coring: Drilling underway at CFE-2 drift.
 - Blast Effects: No NTS activity.
 - Perched Water: Readiness review complete.
 - Controlled Blasting: SIP and QALA submitted to Yucca Mountain Project Office.
 - In Situ Stress: No NTS activity.
- .LANL - Diffusion Test: Test in progress in DH #2 and DH #3.
- .SNL - Thermal Stress: No NTS activity noted.

PLANNED WORK

- .LLNL - Engineered Barrier: Continue data acquisition on Horizontal Heater Test cool down. Develop Vertical Test criteria letter.
- .USGS - Cross Hole: Arizona field deployment effort rescheduled for April 17, 1989.
 - Wet and Dry Drilling: Continue data collection on the four test holes.
 - Drill Hole Instrumentation: Continue data acquisition.
 - Mapping: Begin FR mapping as Yucca Mountain Project authorization is required.
 - Intact Fracture: Perform laboratory test with the collected samples.
 - Rubble Coring: Continue work in G-Tunnel.
 - Blast Effects: Obtain an open work order.
 - Excavation Effects: Obtain an open work order.
 - Perched Water: Obtain an open work order.
 - Controlled Blasting: Submit finalized criteria letter to Yucca Mountain Project Office. Obtain an open work order.
 - In-Situ Stress: Obtain an open work order.
 - Optimal Rubble Size: Complete the non-welded rubble collection.
- .LANL - Diffusion: Continue monitoring solute injection in DH#2.
- .SNL - Thermal Stress: Obtain a revised open work order.

PROBLEMS/ISSUES

NONE

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>127</u>	Expended	<u>49</u> %
.REECO: Current Week-Prototype Testing	\$	12,931	Year to Date \$	147,558
Current Week-G-Tunnel Operation	\$	18,129	Year to Date \$	479,538
.H&N: Current Week-Prototype Testing	\$	9,584	Year to Date \$	109,380
.F&S: Current Week-Prototype Testing	\$	*	Year to Date \$	*

*Not Submitted.

WEEKLY ACTIVITY REPORT
PROTOTYPE TESTING
Week Ending - April 9, 1989

ACCOMPLISHMENTS

- .LLNL - Engineered Barrier: Continuing cool down measurements.
- .USGS - Cross Hole: No NTS activity.
 - Wet and Dry Drilling: Continued the data collection on the four test holes.
 - Drill Hole Instrumentation: Continued data acquisition.
 - Mapping: Yucca Mountain Project approval of FR (Fran Ridge) work order delayed.
 - Intact Fracture: Drilling was suspended March 24, 1989 and will resume at a later date.
 - Rubble Coring: Work is progressing in G-Tunnel. Core was recovered from the non-welded unit at CFE-2 drift.
 - Blast Effects: No NTS activity.
 - Perched Water: Work is progressing on obtaining an open work order.
 - Controlled Blasting: Work continues on grading the QALA.
 - In Situ Stress: No NTS activity.
- .LANL - Diffusion Test: Testing is in progress in DH #2 and DH #3.
- .SNL - Thermal Stress: No NTS activity.

PLANNED WORK

- .LLNL - Engineered Barrier: Continued data acquisition on Horizontal Heater Test cool down. Develop a Vertical Test criteria letter.
- .USGS - Cross Hole: Arizona field deployment is scheduled for April 17, 1989.
 - Wet and Dry Drilling: Continued data collection on four test holes.
 - Drill Hole Instrumentation: Continued data collection.
 - Mapping: Obtain an open work order for authorization to begin work.
 - Intact Fracture: Perform laboratory test with collected samples.
 - Rubble Coring: Recover core from welded unit in the Demonstration drift.
 - Blast Effects: Submit criteria letter and obtain an open work order.
 - Excavation Effects: Obtain an open work order.
 - Perched Water: Obtain an open work order. Begin field work on April 24, 1989.
 - Controlled Blasting: Submit finalized criteria letter to the Yucca Mountain Project Office. Obtain an open work order.
 - In-Situ Stress: Obtain an open work order. Begin field work on April 17, 1989.
 - Optimal Rubble Size: Begin non-welded rubble collection.

- .LANL - Diffusion: Continued monitoring solute injection in DH#2. Resumed overcore drilling. Order drilling accessories and revise the work order.
- .SNL - Thermal Stress: Obtain a revised open work order.

PROBLEMS/ISSUES

NONE

EXPENDITURES

.Prototype Testing:	Work Days Remain		Expended	51 %
.REECO: Current Week-Prototype Testing		\$ 24,078	Year to Date \$	171,636
Current Week-G-Tunnel Operation		\$ 35,741	Year to Date \$	515,279
.H&N: Current Week-Prototype Testing		\$ 7,135	Year to Date \$	116,515
.F&S: Current Week-Prototype Testing		\$ *	Year to Date \$	*

*Not Submitted.

WEEKLY ACTIVITY REPORT
PROTOTYPE TESTING
Week Ending - April 16, 1989

ACCOMPLISHMENTS

- .LLNL - Engineered Barrier: Continuing cool down measurements.
- .USGS - Cross Hole: Instrument deployed in Arizona.
 - Wet and Dry Drilling: Continued the data collection on the four test holes.
 - Drill Hole Instrumentation: Continued data acquisition.
 - Mapping: Awaiting Yucca Mountain Project approval of Fran Ridge (FR) work order.
 - Intact Fracture: No noted NTS activity.
 - Rubble Coring: Work is progressing in G-Tunnel. Core was recovered from the welded tuff in the Demonstration Drift.
 - Blast Effects: No NTS activity.
 - Perched Water: Open work order has been obtained.
 - Controlled Blasting: Monitored non-welded blasting.
 - In Situ Stress: No NTS activity.
 - Optimal Rubble Size: Collection has begun in the non-welded tuff unit in CFE-2.
- .LANL - Diffusion Test: Data collection and testing is in progress in DH #2 and DH #3.
- .SNL - Thermal Stress: No NTS activity.

PLANNED WORK

- .LLNL - Engineered Barrier: Continued data acquisition on Horizontal Heater Test cool down. Vertical Test criteria letter under development.
- .USGS - Cross Hole: Field deployment at G-Tunnel.
 - Wet and Dry Drilling: Will continue data collection on four test holes.
 - Drill Hole Instrumentation: Will continue data collection.
 - Mapping: Obtain authorization to begin FR-USBR\Denver test bed assembly work.
 - Intact Fracture: Continue sample testing.
 - Rubble Coring: Continue core recovery in the Demonstration Drift.
 - Blast Effects: Obtain an open work order.
 - Excavation Effects: Obtain an open work order.
 - Perched Water: Begin field work on May 1, 1989. (Assuming dust collector is on site.)
 - Controlled Blasting: Submit finalized criteria letter to the Yucca Mountain Project Office. Obtain an open work order.
 - In-Situ Stress: Begin field coring on April 17, 1989.
 - Optimal Rubble Size: Complete non-welded collection of rubble.

- .LANL - Diffusion: Continued to monitor solute injection in DH#2.
- .SNL - Thermal Stress: Obtain a revised open work order.

PROBLEMS/ISSUES

NONE

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>117</u>	Expended	<u>53</u> %
.REECO: Current Week-Prototype Testing	\$	15,322	Year to Date \$	186,958
Current Week-G-Tunnel Operation	\$	29,997	Year to Date \$	545,276
.H&N: Current Week-Prototype Testing	\$	0	Year to Date \$	127,800
.F&S: Current Week-Prototype Testing	\$	*	Year to Date \$	*

*Not Submitted.