



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: April 25, 1989

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING

Please find enclosed the above-referenced report (3), received in this office, i.e., week ending March 5, 12, and 19, 1989.

FTP: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 - March 19, 1989

ACCOMPLISHMENTS

- .LLNL - Engineered Barrier: Heater turned off, cool down measurements continue.
- .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 FR (Fran Ridge) work order delayed.
 - Intact Fracture: Drilling completed at Phase I welded axial sample site.
 - Rubble Coring: Work order opened.
 - Blast Effects: Criteria letter in SNL review.
 - Excavation Effects: No NTS activity.
 - Perched Water: No NTS activity.
 - Controlled Blasting: QALA returned from Yucca Mountain Project Office. Revision required to meet new QA procedures.
 - In Situ Stress: Gauges being calibrated.
- .LANL - Diffusion Test: Test in progress in DH #2 and #3. Revised criteria submitted to TMO.
- .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 - Mapping: Start FR mapping as Yucca Mountain Project authorization is obtained.
 - Cross Hole: Field deployment effort rescheduled for April 17, 1989.
 - Intact Fracture: Continue prototype drilling, in non-welded sample area.
 - Drill Hole Instrumentation: Continue instrumentation data acquisition.
 - Wet and Dry Drilling: Continue data collection on test holes.
 - Rubble Coring: Drilling to start tentatively March 27, 1989.
 - In-Situ Stress: Obtain a Yucca Mountain Project Office approved criteria letter and QALA.
 - Controlled Blasting: Submit revised criteria letter for transmittal to Yucca Mountain Project Office. Obtain an open work order.
 - Blast Effects: Submit criteria letter for approval.
 - Excavation Effects: Obtain an open work order.

- Optimal Rubble Size: Start non-welded rubble collection ASAP. The PI is available, work order finalization is in progress.
- Perched Water: Obtain an open work order.

.LANL - Diffusion: Continue and monitor solute injection in DH#2.

.SNL - Thermal Stress: Obtain an open work order.

PROBLEMS/ISSUES

NONE

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>137</u>	Expended	<u>45</u> %
.REECO: Current Week-Prototype Testing	\$	16,320	Year to Date	\$ 113,048
Current Week-G-Tunnel Operation	\$	18,063	Year to Date	\$ 441,291
.H&N: Current Week-Prototype Testing	\$	6,943	Year to Date	\$ 92,248
.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 - March 12, 1989

ACCOMPLISHMENTS

- .TM - Prototype Diffusion and Hydrology testing PIs visited SMF. Written observations pending.
- .LLNL - Engineered Barrier: Heater turned off. Cool down measurements continue.
- .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 FR (Fran Ridge) work order delayed.
 - Intact Fracture: Drilling underway at welded axial sample site.
 - Rubble Coring: Work order opened, equipment delivery delayed to mid-March. Tentative drilling start March 21, 1989.
 - Blast Effects: Finalized criteria letter forwarded to NTSO.
 - Excavation Effects: No NTS activity.
 - Perched Water: Readiness review completed.
 - Controlled Blasting: SIP and QALA submitted to Yucca Mountain Project Office.
 - In-Situ Stress: Drilling equipment reviewed at NTS with site engineers and drillers. Gauges received.
- .LANL - Diffusion Test: Test in progress in DH #2 and DH #3.
- .SNL - Thermal Stress: No NTS activity.

PLANNED WORK

- .LLNL - Engineered Barrier: Continue data acquisition on Horizontal Heater Test cool down. 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: Continue prototype drilling.
 - 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 and QALA.
 - Controlled Blasting: Submit finalized criteria letter for transmittal to Yucca Mountain Project Office. Obtain an open 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. The PI is available. Work order finalization is in progress.
 - Perched Water: Obtain an open work order.
- .LANL - Diffusion: Continue and monitor solute injection in DH#2.
.SNL - Thermal Stress: Obtain an open work order.

PROBLEMS/ISSUES

NONE

EXPENDITURES

.Prototype Testing:	Work Days Remain	<u>142</u>	Expended	<u>43</u> %
.REECO: Current Week-Prototype Testing	\$	24,149	Year to Date \$	96,728
Current Week-G-Tunnel Operation	\$	17,574	Year to Date \$	423,228
.H&N: Current Week-Prototype Testing	\$	5,483	Year to Date \$	85,305
.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 - March 5, 1989

ACCOMPLISHMENTS

- .LLNL - Engineered Barrier: Continued data acquisition on the Horizontal Heater Test.
- .USGS - Cross Hole: No noted 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 FR (Fran Ridge) work order delayed.
 - Intact Fracture: Test work order opened. Equipment 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.
 - Controlled Blasting: SIP and QALA submitted for Yucca Mountain Project Office approval.
 - In Situ Stress: Drilling equipment shipped to NTS for assembly in preparation for drilling start.
- .LANL - Diffusion Test: Test in progress in DH #2 and #3.
- .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: 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 and QALA.
 - Controlled Blasting: Submit finalized criteria letter for transmittal to Yucca Mountain Project Office. Obtain an open 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. The PI is available, work order support has not been completed.

- Perched Water: Obtain an open work order.
- .LANL - Diffusion: Continue and monitor solute injection in DH#2.
- .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>147</u>	Expended	<u>41</u> %
.REECO: Current Week-Prototype Testing	\$	2,885	Year to Date \$	72,579
Current Week-G-Tunnel Operation	\$	25,656	Year to Date \$	405,654
.H&N: Current Week-Prototype Testing	\$	2,060	Year to Date \$	79,822
.F&S: Current Week-Prototype Testing	\$	*	Year to Date \$	*

*Information not available at the time of this report.