

Department of Energy

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AUG 2 9 1985

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Mr. Roger R. Jim, Sr., Chairman Yakima Tribal Council Yakima Indian Nation P. O. Box 151 Toppenish, WA 98948

Mr. Elwood H. Patawa, Chairman Board of Trustees Umatilla Confederated Tribes P. O. Box 638 Pendleton, OR 97801

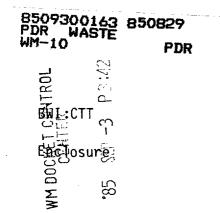
Mr. Allen V. Pinkham, Chairman Nez Perce Tribal Executive Committee Box 305 Lapwai, ID 83540

Gentlemen:

MONTHLY TRANSMITTAL OF "SCHEDULE FOR NEAR TERM BWIP SITE CHARACTERIZATION ACTIVITIES"

Enclosed for your use is our monthly update and schedule for Site and Engineered Barriers Department activities in this precharacterization phase.

As committed, we will continue to update this information on a regular basis. Should you have any questions relative to this transmittal, please contact Mr. C. Thomas Tinsley of my staff on (509) 376-8736.



Very truly yours,

O. L. Olson, Director Basalt Waste Isolation Division

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bcc's for letter, Olson to States/Indian Tribes, "Monthly Transmittal of Schedule for Near Term BWIP Site Characterization Activities"

bcc, w/encl: Russell Jim, Yakima Indian Nation Ron Halfmoon, Nez Perce Tribe Peter P. Ramatowski, Umatilla Conf. Tribes Wyatt Rogers, CERT Barry Gale, DOE-HQ C. A. Peabody, DOE-HQ Linda Lehman James B. Hovis F. R. Cook, NRC J. Linehan, NRC J. Graham, Rockwell BWI Record Cy

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SITE AND ENGINEERED BARRIERS DEPARTMENT ACTIVITIES

Activities	Date	<u>Rev.</u> ;
te		
 Install Westbay Packer in RRL-14	09/01-09/30/85	
Run and grout liner in DC-3 (to support seismic monitoring)	Complete	
Remove bridge plugs from RRL-14	Complete	
Groundwater monitoring of boreholes DC-19, DC-20, and DC-22	Daily	
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Monitoring of other boreholes	Weekly	
Integrity testing, DB-14	Complete	
Integrity testing, DB-1	Complete	1.0
Deepen Borehole DH-27	Complete	8
Drill cable tool start holes, RRL-2B, RRL-2C	Complete	
Drill rotary hole RRL-2C	Complete	
Surveying gravity at magnetic stations	Complete	
Electronmicroprobe analysis of flow top samples	Ongoing	
X-ray diffraction analysis of flow top samples	Ongoing	
Modeling gravity, magnetic data	Ongoing	
Collection of magnetic and gravity data	Ongoing	
Seismic data surveillance analysis	Ongoing	
Lab studies on sorption and chemical dissolution	Daily	
Test Cohassett in RRL-2A	Complete	
Drill rotary hole RRL-2B	Complete	
Deepen borehole DH-28	Complete	
Drill RRL-17 to top of Grande Ronde	07/15-08/15/85	
Drill DC-23G	08/23-09/30/85	8
lution Chemistry Laboratory		
Develop method for rock analysis using ICP-AES	Ongoing	
Upgrade anion analysis on ion chromotography	Ongoing	
Develop method for analysis of groundwater tracer using HPLC	Ongoing	
Support to Site Department database development	Ongoing	
Development of methods for analysis using AA	Ongoing	
Procedure development	Ongoing	
Analysis of aqueous solution samples from hydrothermal	Ongoing	
testing and groundwater sampling	0.190.119	
Field and field analyses of water from local springs, unconfined aguifer and other test horizons	Ongoing	
Laboratory upgrade of uv-visible spectrophotometric equipment	Complete	
Study of kinetic of decomposition of hydrogen peroxide with	Ongoing	
basalt under various conditions using uv-visible spectropho- tometry	51190 1119	
	Ongoing	
Develop method for analysis of fixed gases in water samples by gas chromatography		
Develop method for analysis of fixed gases in water samples by gas chromatography Develop improved methods for chemical speciation measurements of arsenic and selenium for use in analysis of hydrothermal samples	Ongoing	

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Activities	Date	<u>Rev.*</u>
Microcharacterization (Solids) Laboratory		
Scanning Transmission Electron Microscope -		
 Analysis of flow-through run products Analysis of well-characterized biotite and chlorite as possible standards 	Ongoing Complete	
 Analysis of Dickson autoclave run products Analysis of Rocky Coulee flow top clay minerals 	Ongoing Complete	
X-Ray Diffractometer -		
 Analysis of McCoy Canyon, Umtanum and high-Mg flow tops Analysis of flow-through run products Analysis of Dickson autoclave run products Analysis of Cohassett and Rocky Coulee flow tops Analysis of fault gouge Analysis of sedimentary interbed minerals Analysis of concrete samples Analysis of corrosion water surface coatings 	Ongoing Ongoing Ongoing Complete Ongoing Deferred Until FY 1986 Cancelled Ongoing	8
Electron Microprobe -		
 Analysis of Cohassett flow tops Analysis of Rocky Coulee flow tops Analysis of natural pyrites Analysis of Dickson Autoclave run products Analysis of oxide minerals in Rocky Coulee/Cohasset flow tops 	Complete Ongoing Complete Ongoing Ongoing	8 8 8
Radioactive Hydrothermal Laboratory		
 Basalt and synthetic groundwater tests inflow through autoclave Radionuclide-doped simulated Savannah River Plant Defense 	Ongoing Ongoing	
 glass + basalt and synthetic groundwater Experiments are being conducted using fully radioactive waste forms in the presence of various waste package components (metal, barriers, and/or basalt) 	April 1986	8
 Experiments on the behavior of specific radionuclides, introduced individually with groundwater, in the presence of packing material at low temperatures 	-Ongoing	8
Mon-Radioactive Hydrothermal Laboratory		
 Hydrothermal tests on basalt + bentonite + groundwater Long-term hydrothermal tests (1-5 years) on basalt + groundwater 	Ongoing Ongoing	
 Determine the solubility of selenium under hydrothermal conditions simulating the near-field environment. 	Ongoing	

- conditions simulating the near-field environment Evaluate Redox conditions in a hydrothermal experiment simulating a near-field environment Dehydration experiments Ongoing . Ongoing
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Activities				Date	Rev.*				
Waste Package Packing Investigatory Testing									
\$ • •	Uniaxial compression Brazillian tension Direct shear 4-point flexure Density	50 50 40	tests tests tests tests tests	Ongoing Ongoing Ongoing Ongoing Ongoing					
Concrete Testing Laboratory									
•	 Prefabricated Packing testing - Developmental Near-Surface Testing Facility Remedial Shotcrete 			Complete Complete Ongoing Beginning	8 8 8				
<u>_3ac</u>	<u>ckfill Testing Laboratory</u>								
 Hydraulic conductivity tests Start swelling, pressure permeameter tests Possibility of (2) long-term flow through permeameter tests Compaction tests on bentonite/basalt mixes/specific gravity 			Ongoing August August Complete	8 8 8					

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*Changes in this schedule from that last issued are indicated by a revision bar and revision number.

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