

FROM Colin A. Heath, DC	DATE OF DOCUMENT 8/19/81	DATE RECEIVED 8/2 '81	NO. WM-81-475
TO John B. Martin, WM	ORG.: XX	MEMO: 	REPORT:
CLASSIF.: 	ACTION NECESSARY <input checked="" type="checkbox"/>	CONCURRENCE <input type="checkbox"/>	DATE ANSWERED
POST OFFICE NO. 	NO ACTION NECESSARY <input type="checkbox"/>	COMMENT <input type="checkbox"/>	BY: 9/10
DESCRIPTION (Must be Unclassified) TO Agenda for NRC Visit to BWIP, Richland, WA, 9/22-24/81	FILE CODE: 101.2	REFERRED TO HJMiller	DATE 8/21
ENCLOSURES 			
REMARKS 			

Bob Wagner is a letter response to this needed

Prescott

DOE (Dave Swire) has prepared to reconsider over that the restriction is lifted. 9/3

No response needed. Wright 9/11

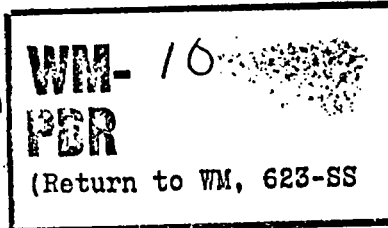


Department of Energy
Washington, D.C. 20545

AUG 18 1981

*Ticket for - due 9/10
Miller
OK?
[Signature]*

Mr. John B. Martin, Director
Division of Waste Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



Dear Mr. Martin:

Enclosed is the agenda for the NRC visit to the Department's Basalt Waste Isolation Project in Richland, Washington from September 22-24, 1981. We are pleased to be able to provide this briefing for you. We would appreciate receiving copies of your draft and final trip reports, as provided in the past.

Please contact Carl Newton of this office or Dave Squires of our Richland office if any questions arise.

Sincerely,

[Handwritten Signature] for

Colin A. Heath, Director
Office of Waste Isolation
Nuclear Waste Management
and Fuel Cycle Programs
Office of Nuclear Energy

Enclosure

cc: F. Arsenault
Division of Health, Siting
and Environment

*Bob
but do we have the
final response or
letter? Please
handle the
ticket or have
Paul handle
the ticket
accordingly.
12*

8303280073 810819
PDR WASTE
WM-10

PDR

00197

AGENDA FOR NUCLEAR REGULATORY COMMISSION

VISIT BASALT WASTE ISOLATION PROJECT

RICHLAND, WASHINGTON

September 22-24, 1981

ATTENDEES (Tentative)

NRC

J. Martin
M. Knapp
M. Bell
J. Greeves
P. Prestholdt
plus ~15 NRC consultants

KE-PB

A. Lindsay
J. Ritchie
B. Schmidt
D. Watson

DOE

R. Goranson
D. Squires
R. Nelson

Rockwell

(TBD)

ONI

M. Glora

September 22, 1981 - Federal Building - Room G53

- | | | |
|------------------------|---|--------------------------------|
| 10:00a | Welcome and Introduction | R. B. Goranson/
L. R. Fitch |
| 10:10a | Overview of BWIP Activities | R. A. Deju |
| 10:40a
to
12:00p | Waste Package, General Discussion
to Cover the Following Topics:
<ol style="list-style-type: none">1. Solubilities of radionuclide-bearing phases in the BWIP waste/water/rock systems2. Mineralogy of fractures; likely phase transformations of the fracture filling minerals under anticipated repository conditions; and the effect these changes will have on permeability and sorption3. Sorptive properties and sorptive capacity (Kd) of secondary mineral phases that line fractures4. Petrological and mineralogical characterization of the Umtanum flow; this requires access to cores, core logs, thin sections, photographs and reports5. Water chemistry data for the Grande Ronde | M. J. Smith |

Agenda for NRC Visit (Page 2)

12:00p Lunch

1:00p to 2:30p Repository - ESTF and Conceptual Design - General Discussion to Cover the Following Topics H. B. Dietz

1. Exploratory Shaft Test Facility (ESTF)
 - a. Current version of the design for the ESTF
 - b. Location of the ESTF and the options to collocate the ESTF with the planned geologic repository or to locate the ESTF away/apart from the planned repository
 - c. Construction methods, shaft sinking methods and hydrologic testing around the shaft
 - d. Parameters, tests, and procedures planned for the ESTF; the correlation of the planned tests etc. with the design of the ESTF; and the application of the test results to the planned design of the repository
 - e. Correlation of geologic and hydrologic investigations at the site with the planned test facility, in particular, development of stress measurements and plans for hydrofracturing
2. Near-Surface Test Facility (NSTF)
 - a. Bases for the correlation of the NSTF test results with the geologic conditions at the planned repository depth and with the development of the repository design
3. Borehole and Shaft Sealing Investigations
4. Conceptual Design
 - a. Report on Functional Design Criteria (RHO-BWI-CD-38, Rev. 3)
 - b. Interface of the site investigations and design of the repository
 - c. Current version of the concept design

2:30p Break

2:45p to 5:00p Site - Geology, Hydrology, Geophysics - Remote Sensing - General Discussion to Cover the Following Topics D. J. Brown

1. Hydrology and Geology

- a. Groundwater modeling: history of model development, present status, interpretation of the flow field, interactions between and within hydrologic units, use of curvi-linear cross sections.
- b. Values of parameters for groundwater modeling: methods of selection, sensitivity analyses.
- c. Water budget for deep aquifers, including effects of inter-basinal flow.
- d. Groundwater flow field: current version, current interpretation, effect of structural features such as anticlines.
- e. Elevations of the water table along the Pasco Basin boundary (as shown in Plate III-9, R110-BWI-ST-5).
- f. Possible hydraulic connections between hydrologic units and upper aquifers, e.g., Columbia River paleo-channel.
- g. Structural control of the Columbia River within the Site.
- h. Hydrologic testing history for each well that provides data for groundwater modeling.
- i. The NRC would like to obtain a copy of the following logs for each well that penetrates the Wanapum:
 - o Lithologic, including drillers comments, notes on lost circulation, etc.
 - o Resistivity
 - o S.P.
 - o Neutron - epithermal neutron
 - o Sonic
 - o Birdwell 3-D or formation density.

2. Geophysics

- a. Review the seismic reflection program for the Cold Creek syncline, Gable Butte and Gable Mountain.
- b. NRC would like to obtain selected copies of deep and shallow seismic sections of the above.

Agenda for HRC Visit (Page 4)

3: Remote Sensing

- a. Geologic remote sensing data and products for Rockwell discussed in RHO-BWI-3A-43, page 14, last paragraph, including imagery, interpretive overlays, products and reports

September 23, 1981 - 8:00a Meet in Federal Building - Room 353

8:10a	Leave for NSTF, Tour the Facility	B. C. K. Moravek
1:00p	Return to Federal Building - Room TBD Break up into groups as follows:	
	Group I Hydrology (Field trip to drill rig if possible)	*F. A. DeLuca
	Group II Modeling	R. E. Gephart
	Group III Design (ESTF, NWRB)	H. B. Dietz
	Group IV Geochemistry (Visit Core Lab if Possible)	M. J. Smith
	Group V Licensing	L. R. Fitch

September 24, 1981

8:00a	Individual groups continue with the addition of 2 new groups formed from existing Groups I-V.	
	Group VI Quality Assurance	M. F. Nicol
	Group VII Geophysics	T. A. Curran
12:30p	Lunch	
1:30p	All return to Federal Building, Room G53, for general discussion. All sessions completed by 5:00p.	

*The BWIP person heading each group will be responsible for arranging a meeting place for that group.