

103.0/RJW/08/10/81/0

- 1 -

AUG 12 1981

✓ 101.2
WMHT 103-0

WM-10
PDR
(Return to WM, 623-SS)

MEMORANDUM FOR: Richard Goranson, DOE
Richland, WA

FROM: Robert J. Wright, NRC
Washington, D.C.

SUBJECT: PROPOSED SCHEDULE FOR SEPTEMBER VISIT

There follows a proposed schedule of activities for the BWIP visit beginning September 22, 1981. It is intended to identify the topics we wish to cover, giving appropriate time to each in an efficient fashion.

Robert J. Wright
High-Level Waste Technical
Development Branch
Division of Waste Management

cc:
Colin Heath, DOE
P. Prestholt, Project
Manager, NRC

Distribution

WMHT r/f
WM r/f
NMSS r/f
RWright & r/f
HMiller
MBell
REBrowning
JBMartin
CF
DIST:

TICKET NO:

OFC	: WMHT	: WMHT	:	:	:	:
NAME	: RWright:bb	: HMiller	:	:	:	:
DATE	: 08/10/81	: 8/12/81	:	:	:	: 00196

8303290556 810821
PDR WASTE
WM-10 PDR

AUG 12 1981

WMHT 103.0

BWIP VISIT SEPT. 21- 26, 1981

Sept. 21 Mon. 3:00 pm NRC organization meeting

Sept. 22 Tues. RHO overview and NSTF visit

Sept. 23 Wed. Groups meet --

- *a. Hydrology
- *b. Modeling
- c. Design
- d. Geochemistry
- e. 10 CFR 60 discussion
- f. Tectonic stability

*In AM Groups a and b meet jointly to discuss well testing procedures, definition of hydrologic parameters, flow field and water budget, new information developed in previous 12 months. In PM Groups meet separately: Group a - review of testing program of each Umtanum Borehole; Group b - layering selection criteria, parameter estimation, boundary conditions, modeling history.

Sept. 24 Thurs. AM Inspection of selected core by interested groups.
PM Groups meet.

Sept. 25 Fri. AM Groups a, b, c, d meet. Group g - Quality Assurance - meets.

PM Groups a and b meet jointly to discuss concepts of ground water flow. Groups c and d meet. Group g - Geophysics - and Group h - Remote Sensing - meet.

Sept. 26 Sat. All day field trip to appropriate points for NRC participants. This will not require attention by RHO.

WMHT 3103.0

MEMORANDUM FOR: Richard Gorauson, DOE
 Richland, WA

FROM: Robert J. Wright, NRC
 Washington, D.C.

SUBJECT: TOPICS FOR DISCUSSION IN SEPTEMBER

There follows a list of topics that we wish to discuss during the September 22, 1981 visit to BWIP.

Please contact me (ETS:427-4177) if there are any questions.

A Hydrogeology

(To be submitted later this week)

B Geochemistry

1. Solubilities of radionuclide-bearing phases in the BWIP waste/water/rock systems
2. 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 sorption
3. Sorptive properties and sorptive capacity (Kd) of secondary mineral phases that line fractures
4. Petrological and mineralogical characterization of the Umtanum flow (requiring access to cores, core logs, thin sections, photographs and reports)

DIST:

TICKET NO:

OFC	:	:	:	:	:	:	:
NAME	:	:	:	:	:	:	:
DATE : 07/28/81	:	:	:	:	:	:	:

ATTCH 3

5. Water chemistry data for the Grande Ronde

B DESIGN

1. Experimental Shaft Testing 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 location 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 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
- f. We would like to obtain a current version of the design plan for the ESTF

2. 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

DIST:

TICKET NO:

OFC	:	:	:	:	:	:	:
NAME	:	:	:	:	:	:	:
DATE	:	:	:	:	:	:	:

d. We would like to obtain a current version of the conceptual design.

3. 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

C Quality Assurance

- 1. Review of the Q.A. program in its entirety
- 2. We wish to obtain a copy of the BWIP Q.A. plan

D Geophysics

- 1. Seismic reflection program for the Cold Creek syncline, Gable Butte and Gable Mountain
- 2. We would like to obtain selected copies of deep and shallow seismic sections of the above

E Remote Sensing

- 1. Geologic remote sensing data and products for RHO discussed in RHO-BWI-3A-43, page 14, last paragraph, including unagery, interpretive overlaps, products and reports

DIST:

TICKET NO:

OFC :	:	:	:	:	:	:
NAME :	:	:	:	:	:	:
DATE : 07/28/81	:	:	:	:	:	:
