

Enclosure-1

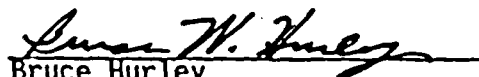
all memo to Knapp  
for Westbrook  
101  
7/15/85

SUMMARY MEETING NOTES  
NRC/DOE DATA GATHERING MEETING  
BWIP GEOLOGY PROGRAM  
MAY 30-31, 1985  
RICHLAND, WASHINGTON

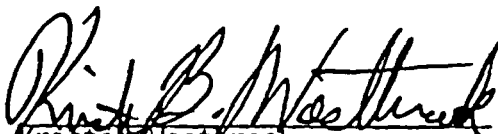
The U.S. Department of Energy (DOE) and the U.S. Nuclear Regulatory Commission (NRC) met to discuss ways to improve NRC's understanding of the Basalt Waste Isolation Project's (BWIP) Geology Program. A secondary purpose was to discuss the need and scope for future meetings and reviews of important BWIP documents. The proposed agenda and actual agenda for this meeting is Attachment 1 and 2, respectively. The attendees are listed in Attachment 3.

Included in the discussions was an NRC memorandum (Attachment 4). Formal DOE/BWIP responses to the items in the NRC memorandum will be forwarded to NRC by June 30, 1985.

Also discussed were current/imminent BWIP geology activities during the spring and summer of 1985 (Attachment 5). Those current investigations not addressed by the DOE due to time constraints will be addressed at a future agreed upon time. The meeting concluded with a trip to the BWIP core facility.

  
Bruce Hurley  
DOE-RL

5/31/85  
Date

  
Kristin Westbrook  
USNRC

5/31/85  
Date

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NRC/DOE DATA GATHERING MEETING

AGENDA

LOCATION: U. S. N. R. C.  
Onsite Representative's Office  
Richland, WA

Date: May 30, 1985

Time: 8:30 to 4:00

Purpose: Discuss ways to improve NRC's understanding of  
the geologic characterization program and to  
prepare for future workshops and reviews of  
important documents to be released in FY 85-86.

- A. Introduction
- B. Discussion of the Assessments List and the procedures for being kept informed about site characterization plans and results.
- C. Ongoing geological characterization work.
- D. Lineament evaluation.
- E. Followup from DOE Status meeting with State of Washington and Indian Tribes that was held on May 29, 1985.

May 30, 1985

DETAILED REVISED (ACTUAL) AGENDA AND  
TIME TABLE, LOCATION - SAME AS ORIGINAL

- A. NRC Introduction - Discussion of Pre-licensing Interactions - 15 min. total 9:15 - 9:30
- B. General discussion of procedures for NRC to be informed of site characterization activities for geology/geophysics including:
  - (1) Public release system (i.e. Accessions List)
  - (2) Ways to account for working files and data not part of the release system. For Item (2) ideas discussed included: NRC technical staff attendance at quarterly meetings; NRC staff visits to Rockwell offices to review working files; and the possibility of developing a data catalog 30 min. total9:30 - 10:00
- C. Rockwell response to NRC memorandum (memorandum is Attachment 4); Items 1-29 were all discussed 1 hr. total 10:00 - 11:00
- D. Discussion of FY 1985 geosciences activities 1 hr. total 11:00 - 12:00
- E. Discussion of FY 1985 geosciences activities resumed at the Rockwell offices on the 3rd Floor of the Peoples Bank Bldg. in Richland. (The benefits of access to various responsible personnel involved in the different investigations and to maps was identified by Rockwell during the discussions from 11:00 - 12:00). 3 hrs. total 1:00 - 4:00
- F. Follow-up needed - Current FY 1985 status not complete

**ATTENDEES**

<b>Kristin Westbrook</b>	<b>U.S. Nuclear Regulatory Commission</b>
<b>Bob Cook</b>	<b>U.S. Nuclear Regulatory Commission</b>
<b>Bill Brewer</b>	<b>State of Washington/Dept. of Ecology</b>
<b>Sue Price</b>	<b>Rockwell Hanford Operations</b>
<b>Ann Tallman</b>	<b>Rockwell Hanford Operations</b>
<b>Phil Long</b>	<b>Rockwell Hanford Operations</b>
<b>Jim Bazemore</b>	<b>Rockwell Hanford Operations</b>
<b>John Kovax</b>	<b>U.S. Department of Energy-Richland Operations Office/Basalt Waste Isolation Project Office</b>
<b>Bruce Hurley</b>	<b>U.S. Department of Energy-Richland Operations Office/Basalt Waste Isolation Project Office</b>

APR 29 1985

KW/85/04/25

- 1 -

## Distribution:

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 WMGT rf  
 NMSS rf  
 RBrowning  
 MBell  
 MKnapp  
 PJustus  
 KWestbrook & rf  
 PDR  
 LPDR (B)

MEMORANDUM TO: Robert Wright  
 Repository Projects Branch  
 Division of Waste Management, NMSS

FROM: Kristin Westbrook  
 Geology-Geophysics Section  
 Geotechnical Branch  
 Division of Waste Management, NMSS

SUBJECT: PROBLEMS WITH INFORMATION RELEASES FROM DOE/RHO

I have made a partial list of information items on Geology/Geophysics that have an unknown release status (Attachment A). I have been unable to comprehensively determine what information exists and also, I am unable to determine what information has been released. It seems that the inability to determine what information exists and what information has been released could make evaluation of the site description and subsequent plans required to be in DOE's Site Characterization Plan impossible.

In my communications with DOE/RHO, I am usually directed to the accessions list when the subject of information collection or information release comes up. The accessions list is of little or no use in determining the information that exists and is of no use in determining the availability of any of the twenty-nine items listed on Attachment A. The accessions list entries that might be applicable to Geology-Geophysics have no dates, no listing of the total page numbers, and for a great majority of the entries, no description of what the document contains. A list of information needed about geology-geophysics data is included as Attachment B.

These problems need to be addressed. I am available to give clarifications and to discuss the problems in further detail. Please keep me informed as to any progress towards resolution of these problems regardless of whether or not such progress is specific only to the Hanford site.

151

Kristin Westbrook  
 Geology-Geophysics Section  
 Geotechnical Branch  
 Division of Waste Management, NMSS

Enclosures:  
 As stated

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KWestbrook:dw PJustus

85/04/29

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## ATTACHMENT A

### SELECTED ITEMS\* ON GEOLOGY-GEOPHYSICS FOR THE HANFORD SITE: UNKNOWN RELEASE STATUS

1. NRC Trip Report, November, 1981 - Seismic Refraction, grid shot over the RRL in FY 1981; Data interpretation in FY 1982 because of budgetary limitations.
2. NRC Trip Report, November, 1981 - Seismic Reflection, program recorded vicinity of RRL, Gable Mountain, Gable Butte and the Columbia River north of Gable Mountain.
3. NRC Trip Report, November, 1981 - Magnetotelluric Data, collected in the third and fourth quarter of FY 1981.
4. NRC Trip Report, November, 1981 - High Altitude Imagery (U-2, Skylab, and Landsat), "A substantial report on the results of this work (along with maps, imagery, and overlays) is in draft form and will be released in early 1982".
5. BWIP Bulletin, January, 1984 - Seismic Reflection, gridded survey planned to more fully characterize: top of basalt; overlying sediments; and structure within the RRL. The emphasis is on the area near the current E.S. site.
6. NRC/DOE Workshop, March, 1984 - Weston Report, Magnetotelluric data from 1981 continues to be assessed by RHO and EMEY. Data not released.
7. NRC/DOE Workshop, March 1984 - Weston Report, Magnetotelluric, site-specific work planned in FY85 and perhaps FY86.
8. NRC/DOE Workshop, March, 1984 - Weston Report, Gravity Data, Rockwell will collect gravity data at MT stations as well as fill in data along Yakima Ridge - Post FY85 as informally scheduled. An analog area along the S. slope of Saddle Mountains where basalt structures are known to exist will be surveyed for comparison. Gridded gravity and magnetic, RHO will finish survey in FY84 and FY85 including analog area.
9. NRC/DOE Workshop, March, 1984 - Weston Report, Cold Creek Barrier, (geologic structure) Aeromag, groundmag, gravity, stratigraphic.

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\* The source of each item is provided along with a brief description of the item.

10. NRC/DOE Workshop, March, 1984 - Weston Report, Seismic Reflection by EMEX - Key element in the reprocessing was the development of synthetic seismograms:
11. NRC/DOE Workshop, March, 1984 - Weston Report, Seismic Reflection/Refraction, RRL area - gridded surveys, both refraction and reflection simultaneously planned for FY 84-85; if successful, additional gridded surveys in FY86.
12. NRC/DOE Workshop, March, 1984 - Weston Report, Seismometer network down boreholes. (Network installed in October 1984, data release?).
13. NRC/DOE Workshop, March, 1984 - Weston Report, Compilation of geophysical "anomaly status file".
14. NRC/DOE Workshop, March, 1984 - Weston Report, External Peer Review Group FY85.
15. NRC/DOE Workshop, March, 1984 - NRC Notes,  
Two planning documents: Lithologic Characterization Plan and Tectonic Characterization Plan, FY84.
16. NRC/DOE Workshop, March, 1984 - NRC Notes, oil wells as possible magnetotelluric base stations.
17. DOE/RHO - Workshop Presentation, March 1984 - Lithologic studies - Lateral Variation study will be initiated April, 1984.
18. DOE/RHO - Workshop Presentation, March 1984 - Analysis of currently available fracture data is underway; plans for collection of new data are being formulated.
19. DOE/RHO - Workshop Presentation, March 1984 - Work is underway to better characterize interbeds and secondary minerals in flow tops.
20. DOE/RHO - Workshop Presentation, March 1984 - Plans for re-evaluating the preferred candidate are being made.
21. DOE/RHO - Workshop Presentations, March, 1984 - DC 19 , 52-foot-thick zone of diagenetic, vesicular or fractured rock within the dense interior below main vesicular zone. This interpretation is based on geophysical log response.

22. DOE/RHO - Workshop Presentation, March 1984 - In DC-20C, Geophysical logs indicate that low density zones are interspersed with high-density zones where the dense interior of the Rocky Coulee was predicted to occur.
23. DOE/RHO - Workshop Presentation, March 1984 - Revised Basalt Core Logging Procedure; relog core from selected boreholes, log all core from new core holes.
24. DOE/RHO - Workshop Presentation, March 1984 - Seismic Velocity Data from Boreholes Proposed; verification seismic line, additional reflection data in RRL - based on results of verification studies.
25. DOE/RHO - Workshop Presentation, March 1984 - Tectonic Breccia, Analog Study; baseline Mapping of the Analog Area completed, Analysis of field and borehole tectonic fractures and breccias in progress. Quantitative analysis and synthesis of data.
26. DOE/RHO - Workshop Presentation, March 1984, Pomona Flow sampled at 32 sites in the Central Pasco Basin; plans: sample structural rotation at additional sites to confirm and refine findings.
27. DOE/RHO - Workshop Presentation, March 1984 - Magnetotellurics; acquire regional data, detailed surveys on selected structures.
28. Note from Jo Ludwick (RHO) to R. Wright (NRC) 10/84, Rockwell, 1984 - Assessment of Rock Mass Condition in a Candidate Horizon for Nuclear Waste Repository in Basalt, in preparation, Richland. "This document is not yet completed and will not be used as a reference for the Public Draft Environmental Assessment."
29. Report number RHO-BW-ST-19P, 1983 - Geodetic data from the individual surveyed line segments shown in Chapter 6.



## ATTACHMENT B

INFORMATION NEEDED FOR  
ITEMS IN ATTACHMENT A AND FOR ALL  
GEOLOGY/GEOPHYSICS DATA

1. If the information is available, we need the name, author, report number and date of the released document.
2. If the information is not available, we need information such as the following:
  - a) when the information was or will be collected, b) who has collected or will collect the information, c) the location or areal extent of the study, d) whether or not the study is completed, e) what work remains to be completed, f) when remaining work will be completed, and g) what is the expected release date, h) purpose to which the data will be put.
3. Some means to determine, in a comprehensive way, what data on geology/geophysics exists.

CURRENT/IMMINENT BWIP GEOSCIENCE  
ACTIVITIES DURING SPRING AND SUMMER, 1985

1. Magnetotelluric Survey, Rattlesnake Mountain Area
2. Deep Seismic Refraction Survey Interpretation
3. Field Mapping
  - a. Snively Basin
  - b. Vantage
4. Yakima Barricade "Feature" Studies
  - a. Seismic Reflection Survey
  - b. Gravity Survey
  - c. Magnetic Survey
  - d. Drilling
  - e. Hydrologic Testing
5. Geophysical Anomaly/Lineament Evaluation
6. Tectonic Map
7. Tectonic Models
  - a. Tectonics Working Group - J. Anderson
  - b. Meeting with Dr. R. Couch, Oregon State University
8. Sediment Paleomagnetic Sample Collection Zircon Studies
9. Environmental Assessment Comments Evaluation and Resolution
10. Draft Site Characterization Plan Preparation
  - a. Chapter 1 - Geology
  - b. Geology Plans Portion of Chapter 8

Enclosure - 2

101.1/RW/85/06/04

- 1 -

JUN 17 1985

Mr. O. L. Olson  
U.S. Department of Energy  
Richland Operations Office  
BWIP Project Office  
P.O. Box 550  
Richland, Washington 99352

Dear Mr. Olson:

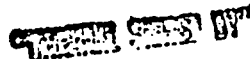
In examining BWIP site data, we are handicapped, I believe, by an incomplete understanding of the data handling, storage and release system.

I think it would be of great help those of us involved with BWIP if we could have a representative of the project present to us a comprehensive explanation of the system and its workings. For maximum benefit, such a presentation would be provided at our offices here in Silver Spring. In this way the members of the BWIP team could participate, together with other NRC people interested in document control and data management. Perhaps the presentation could be scheduled in connection with other activities that bring BWIP staff to Washington, DC.

To indicate the matters that might be addressed in such a presentation, I have enclosed some notes to illustrate our interests.

May I have your reaction to this suggestion by letter or telephone (FTS 427-4674)? Thank you.

Sincerely,



Robert J. Wright  
Senior Technical Advisor  
Repository Projects Branch  
Division of Waste Management  
Office of Nuclear Material  
Safety and Safeguards

Enclosure:  
As stated

WM File: 101.1  
WMRP r/f  
NMSS r/f  
CF  
REBrowning PDR  
MBell LPDR (B,N,S)  
JBunting  
RBoyle  
SCoplan  
JGreeves  
JLinehan  
JKennedy  
HJMiller  
RCook  
TVerma  
PPrestholt  
JGiarratana  
RWright & r/f

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NAME : RJWright	:	:	:	:	:	:	:
DATE : 6/19/85	:	:	:	:	:	:	:

### Notes about the BWIP Data Handling, Storage and Reporting System

1. What are the functions of the Engineering Release System, the Basalt Records Management Center, the Accession List, and any other record centers? What types of data are contained in each? How do the systems interact?
2. What is the flow network for data movement among the centers in 1)?
3. What is the control for subcontractor technical reports, and for RHO working files, internal letters, draft reports, weekly progress reports? How do these fit into the centers in 1)?
4. What procedures are available to NRC in accessing the various bodies of site data, including the materials in 1) and 3), above?
5. Please include a description of the records indexing system and an explanation of how documentation is classified as lifetime or nonpermanent. What are the standards for retention times of various kinds of records?
6. Examples (samples) of each type of data would be useful.

Enclosure - 3

101.1/RW/85/06/18

- 1 -

JUN 19 1985

Mr. O. L. Olson, Project Manager  
BWIP Operations Office  
U. S. Department of Energy  
Richland Operations Office  
Bldg. 712  
Richland, WA 99352

Dear Mr. Olson:

As time goes on, we are making increased use of the BWIP Accession List.

In the spirit of offering ideas for improvement of the List, I enclose "Suggestions for the Accession List." This was developed after discussion with the BWIP team, the chief users in this office.

Sincerely,

~~Robert J. Wright~~  
Robert J. Wright  
Repository Projects Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

Enclosure:  
"Suggestions for the Accession List."

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NAME : RWright	:	:	:	:	:	:	:
DATE : 06/11/85	:	:	:	:	:	:	:

~~DISTRIBUTION~~  
WM s/f 3101.1  
WMRP r/f  
NMSS r/f  
CF  
REBrowning  
MJBell  
PAltomare  
HJMiller  
JLinehan  
MKnapp  
JBunting  
RJohnson  
RWright & r/f  
KStablein  
JKennedy  
SCoplan  
RBoyle  
JGiarratana  
RCook  
PPrestholt  
TVerma  
PDR

### Suggestions for the Accession List

1. A page index to the OCRWM tasks is needed.
2. Most entries lack the number of pages in the document. Thus, there is no distinction between a 1 page abstract and a 100 page report.
3. Abstracts should be identified. Those that stand alone, without a related published paper, should be identified.
4. We would like to know the procedure for inserting documents and for deleting documents. Why are any documents deleted? What happens to them?