

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352



Rockwell
International

January 27, 1984

In reply, refer to letter #R84-0300

Mr. O. L. Olson, Project Manager
Basalt Waste Isolation Project Office
Department of Energy
Richland Operations Office
Richland, Washington 99352

WM DOCKET CONTROL
CENTER
84 FEB -6 AM 1:37

Dear Mr. Olson:

TELEPHONE CONFERENCE REPORTS
(Contract DE-AC06-77RL01030)

Attached please find copies of our telephone conferences held with Nuclear Regulatory Commission personnel. Per your instructions, we have also transmitted copies to the individuals identified on the distribution list. These reports are identified below by our record number.

10100-83-155
10100-84-158
10130-84-045

If you have any questions, please contact Mr. J. H. LaRue on 376-8506.

Very truly yours,

EBA

E. B. Ash, Director
Basalt Waste Isolation Project

EBA/jac

Att. (3)

WM Record File
101.2

WM Project 10
Docket No. _____
PDR
LPDR

Distribution:
RWright

(Return to WM, 623-SS) C2

cc: J. H. Anttonen - DOE-RL
P. E. Rasmussen - DOE-RL
J. J. Sutey - DOE-RL
F. R. Cook - NRC
R. J. Wright - NRC

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PDR WASTE
WM-10 PDR

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COPIES TO

TELEPHONE CONFERENCE

COPIES TO		Time	Date
L. R. Fitch	G. S. Hunt	<input checked="" type="checkbox"/> Incoming	12/16/83
E. B. Ash	Rec. Ret. (2)	With Matthew Gordon	
J. H. LaRue <i>JHL</i>	M. Gordon	Representing Nuclear Regulatory Commission	
A. G. Lassila - DOE-RL	F. R. Cook	With G. S. Hunt <i>JSH</i>	
J. Mecca - DOE-RL	R. J. Wright	Representing BWIP - Site Department	
Commitment Made <input type="checkbox"/> Yes <input type="checkbox"/> No		File	

Purpose Of Telecon
Discuss hydrology workshop.

Text Of Telecon
1. Gordon requested that a copy of the Basalt Waste Isolation Project procedures document be made available for the January Hydrology Workshop.

2. He also reminded me that they wanted to discuss the BWIP Testing Strategy modification at the workshop.

JSH agreed to both requests. We should also consider updating the BWIP Testing Strategy Logic document at the meeting, if required.

JSH
(Signature) 12-21
(Date)



COPIES TO

TELEPHONE CONFERENCE

		Time	Date
			12/21/83
L. R. Fitch	G. S. Hunt	<input checked="" type="checkbox"/> Incoming	<input type="checkbox"/> Outgoing
E. B. Ash	Rec. Ret. (2)	With Bob Wright, Mark Logston, Neal Coleman	
J. H. LaRue <i>JH</i>	R. J. Wright - NRC	Representing Matthew Gordon Nuclear Regulatory Commission	
A. G. Lassila - DOE-RL	F. R. Cook - NRC	With G. S. Hunt	
J. Mecca - DOE-RL		Representing Site Department - BWIP	
Commitment Made <input type="checkbox"/> Yes <input type="checkbox"/> No		File	

Use Of Telecon
discuss agenda for Hydrology Workshop, Van der Kamp technique.

Text Of Telecon

- Bob would like a short presentation, probably to a limited number of his staff, on the BWIP strategy or plan for use of the Van der Kamp technique in characterization. They would like to know our position relative to the significance or quality of data for use in characterization. They question whether we might plan to "throw out" this data or to depend to a great extent on the data for evaluation of hydrologic characterization. I believe about a half hour presentation by Frank Spane might resolve NRC concerns. ACTION: W. H. Price
- DC-16 slant drilling. They would like a detailed discussion of the significance of the DC-16 "breccia" in the Geology Workshop in March. For the Hydrology Workshop, they would like to concentrate on DC-16 hydrologic test results. ACTION: S. M. Price
- BWIP Hydrologic Testing Strategy. Bob Wright would like to discuss changes in the BWIP Testing Strategy. I agreed and suggested we provide a modified testing strategy for their consideration. It was agreed that the testing strategy could not receive adequate consideration at this meeting and that agreement on BWIP modification would require post meeting NRC review. ACTION: S. M. Baker

S. M. Baker
(Signature)

12-21
(Date)



COPIES TO		TELEPHONE CONFERENCE	
		Time 8:00 a.m.	Date 1/25/84
E. B. Ash	M. Gordon	<input checked="" type="checkbox"/> Incoming	<input type="checkbox"/> Outgoing
R. G. Baca	G. S. Hunt	With Matthew Gordon	
S. M. Baker	J. H. LaRue <i>JH</i>	Representing NRC	
J. D. Bazemore	O. L. Olson	With S. M. Baker, G. S. Hunt, <i>SL</i> J. D. Bazemore, L. S. Leonhart	
F. R. Cook	R. J. Wright	Representing Rockwell/BWIP	
Commitment Made <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		File Rec. Ret. (2) L341	

Purpose Of Telecon

Determine status of Nuclear Regulatory Commission (NRC) review of RHO-BW-CR-131P.

Text Of Telecon

The NRC's call was in response to an earlier request for information from the Basalt Waste Isolation Project (BWIP). Mr. Gordon indicated that they were still in the process of review, but that he had some preliminary questions and comments based on his review.

NRC: How will dispersivity be used in the transport evaluation?

BWIP: This question would be better posed to the BWIP Performance Assessment staff. As far as we know, this question is, at the moment, unresolved.

NRC: [Gordon clarified]. I am aware that dispersivity has a strong scale-dependency; will you be using a constant value or how will this problem be handled?

BWIP: We are aware of the scale-dependency problem and we fully intend to carry out tests at various scales in order to resolve such issues relative to the basalts. It is not our intent to rely upon a single value, but we cannot answer exactly how the parameter will be dealt with. This might be a good discussion for the next workshop.

NRC: The Gelhar analysis provides an estimate of effective thickness rather than porosity. We know that you are aware of the uncertainties associated with this conversion. How will you deal with this problem?

BWIP: Effective thickness and porosity are related to thickness in the same sense as transmissivity and hydraulic conductivity. The transport problem can be solved using these lumped parameters.

(Continued on attached page)

L. S. Leonhart
(Signature)

1-25-84
(Date)

Telecon 10130-84-045 Continued

NRC: But this would only be applicable to 2-D problems, not to 3-D. How would you deal with the 3-D which requires K and n values?

BWIP: We're not sure. Again this would be stimulating material for a workshop. The fact is, we were expecting comments relative to the adequacy of the Gelhar approach for experimental design and parameter estimation. Since Gelhar is presently working on follow-up exercises related to this methodology, we were interested at this time in isolating any comments which may impact the work he is doing.

NRC: We'll have a more formal response when we get comments back from our subcontractors.

BWIP: When might we expect to receive something?

NRC: Probably toward the end of February.

BWIP: Good. That will give us time to review the comments before the next workshop and decide if a discussion should be included in the agenda.