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SUMMARY MEETING NOTES
DOE/NRC MEETING ON BWIP SEISMIC TESTING
IN THE VICINITY OF THE REFERENCE REPOSITORY LOCATION

May 23, 1985
Silver Spring, MD

The DOE and NRC staffs met to discuss and exchange ideas concerning the planned DOE seismic reflection survey in the vicinity of the Reference Repository Location (RRL). The agenda for this meeting is contained in Attachment 1. The meeting attendees are listed in Attachment 2.

DOE presented information relative to the objectives and rationale of the planned survey. The various techniques and survey parameters were also presented. DOE comments are detailed in Attachment 3. The NRC staff presented comments and questions regarding the purpose, scope and techniques of the planned survey. NRC comments relative to this meeting are detailed in attachment 4.

Linda Lehman, technical consultant to the Yakima Indian Nation, expressed concerns relative to the scope of the survey. She feels that closer attention should be focused on the subbasalt features. There were no comments made by the USGS, State of Washington, other affected Indian tribes or the public.

There were no open items resulting from this meeting.

D. Dahlem Date 5/23/85
D. Dahlem, DOE

Philip S. Justus Date 5/23/85
P. Justus, NRC

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MAY 22 1985

REVISED AGENDA FOR DOE-NRC MEETING

MEETING LOCATION: U.S. Nuclear Regulatory Commission
Silver Spring, MD, Room 130

DATE: May 23, 1985

TIME: 9:00 a.m. to 3:00 p.m.

PURPOSE: To exchange views on plans for the seismic survey and other geophysical work at BWIP.

A. INTRODUCTION

B. SEISMIC SURVEY

1. . Planned seismic survey - background, purpose, and objectives
2. Discussion of the statement of work.
3. Usefulness of the survey to the BWIP

C. PREVIOUS SEISMIC SURVEY
(If time allows)

1. Status of interpretations of seismic reflection
Lines 3, 5, and 8
2. Short discussion on bases for the interpretations and supporting material used

D. PLANS FOR OTHER GEOPHYSICAL WORK AT BWIP

E. CLOSING REMARKS BY DOE, NRC, STATE OF WASHINGTON, AFFECTED INDIAN TRIBES,
THE PUBLIC

ATTACHMENT 3

DOE COMMENTS ON DOE/NRC MEETING ON BWIP SEISMIC TESTING, MAY 23, 1985

The major points presented by DOE at this meeting relative to the planned seismic survey in the Reference Repository Location (RRL) vicinity are as follows:

- The survey will test various source and detection parameters and techniques to determine the best seismic reflection methods for the RRL vicinity.
- It will test for methods of obtaining the best interpretation based on seismic reflection for the upper basalt flows and suprabasalt sedimentary section.
- The survey will obtain a seismic reflection profile over an inferred structure shallow in the Columbia River basalt section, to be used in conjunction with other geophysical and drill data to determine the nature of the feature.
- It will attempt to validate the seismic reflection method for use in the evaluation of possible structures indicated by other geophysical or remote sensing techniques.

The DOE will consider all comments from the NRC, and the following in particular:

- Deeper shot holes will be considered, particularly in area underlain by thicker sedimentary sections.
- The seismic crew and equipment on site might be utilized to collect refraction data.
- The use of water in the shot holes should be considered.
- Data will be integrated to the maximum depth within the geologic section, consistent with survey design.

DOE will include NRC in ongoing discussions concerning BWIP geophysics activities to promote a better understanding of the objectives and methods of these studies.

This meeting appears to have provided a valuable interchange between NRC and DOE regarding seismic studies at BWIP.

It is apparent that DOE must attempt to indicate "certainty of interpretation" in report displays.

ATTACHMENT 4

NRC COMMENTS

1. We welcome the opportunity to exchange views on the seismic survey plans. This kind of consultation is in keeping with the pre-licensing mode of DOE/NRC interaction. It helps NRC in its effort to suggest appropriate approaches to develop the kinds of information that would be needed if BWIP is chosen by DOE for licensing.
2. The planned seismic survey appears to have the needed flexibility to yield useful results.
3. We understand that data from the test will be used in an attempt to: 1) characterize suprabasalt sediment stratigraphic continuity and structures; 2) characterize upper basalt structure; 3) aid in defining the Yakima Barricade structure/hydrologic barrier, and investigate other inferred structures.

ATTACHMENT 2

NRC / DOE MEETING
HANFORD SEISMIC SURVEYING
MAY 23, 1985

NAME	AFF	TEL
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