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MEMORANDUM FOR: Hubert J. Miller, Chief
High-Level Waste Technical
Development Branch
Division of Waste Mangement

FROM: Robert J. Wright, Senior Technical
Advisor
High-Level Waste Technical
Development Branch
Division of Waste Management

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SUBJECT: SCR TECHNICAL WORKSHOPS AT BWIP

Attached are the meeting notes from the BWIP Workshop on Facility Design, October 5-7, 1982.

This meeting concludes the series of Pre-SCR Workshops for BWIP satisfying operating plan item number 3112111.

Robert J. Wright

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

Enclosure:
Meeting Notes

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MEETING MINUTES ON DOE/NRC WORKSHOP COVERING
BASALT WASTE ISOLATION PROJECT REPOSITORY DESIGN
October 5-6, 1982
Richland, Washington

The meeting was opened by the Department of Energy (DOE), a review of the agenda for the two-day meeting was presented, introduction of the meeting attendees was completed and a welcome was made.

Technical points made by NRC

In Situ Testing

1. There is a growing convergence of views between DOE/Rockwell Hanford Operations and NRC about the conceptual in-situ test plans. The logic and the plans have advanced considerably since the June 9-10 workshop. In general, the plans for ES-2 appear reasonable. Two points appear noteworthy: (1) The problem of predicting the strength of a rock mass intersected by numerous fractures is clearly recognized by DOE/Rockwell. Present plans call for block shear test(s) in ES-2. Whereas this will yield worthwhile information, the uncertainties in analysis of the results may be large. Thus, consideration might be given to development of data from a representative, large scale room test; (2) Since borehole data on the geologic characteristics of the host rock, particularly the nature and distribution of discontinuities, are limited, the observations made in ES-2 will make an important contribution. With greater knowledge, there will be greater confidence in the predictability of the geology and, hence, greater confidence in repository performance predictions.

Facility Design

2. a. At the present level of knowledge, most of the design assumptions contain various unstated ranges of uncertainties. Statements about these assumptions should be guarded regarding the firmness of the numbers. Otherwise, the design may be prematurely bound against future, possible changes.

b. Whereas the analysis of stability of openings appears to be conservative with respect to stress analysis, may be nonconservative with respect to strength of the rock mass. Further analyses including sensitivity analyses or testing would be useful.

c. Rock deformation analysis should be considered.

3. Hydrofracturing Tests

NRC reviewed the results from hydrofracturing tests in DC-12. The work appears to represent a state of the art approach and the results appear reasonable.

Information Requests by NRC

1. ES Test Plan.
2. Finalized Conceptual Design.
3. MAGNUM-2D and -3D detailed program descriptions.
4. NSTF stress measurement data.
5. Backup support data for NGI/CSIR chart presented by Kunsoo Kim.

Attachments:
Attendance List
Workshop Agenda