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JUL 07 1982

MEMORANDUM FOR: Richard B. Goranson, Project Manager
BWIP Project Office
Richland Operations Office
U. S. Department of Energy
P. O. Box 550
Richland, WA 99352

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

SUBJECT: DATA GATHERING OBJECTIVES

Attached is a list of specific information needs in hydrogeology which we hope to satisfy during the workshop beginning on July 21, 1982. It represents a selection, from the list mailed to you on June 8, of first priority needs that we believe can be reasonably expected to be covered within the workshop schedule.

If there are any questions, please contact me (FTS 427-4674) or Dr. Tilak Verma (FTS 427-4680).

ORIGINAL SIGNED BY

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

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SPECIFIC INFORMATION TO
BE REVIEWED BY NRC HYDROLOGISTS

During the first three days of the workshop on hydrogeologic data, NRC hydrogeologists will review field information gathered from some of the test wells at BWIP. This information needs have been divided into four categories.

A. Deep wells used in modeling:

DC-2, DC-2-A1, DC-2-A2
DC-4
DC-12
DC-14
DC-15
DB-15

Each well will be reviewed for drilling method, testing history, zones tested, type of tests used and data gathered, confidence levels for each measurement, and sampling techniques and time interval for samples taken for water chemistry analyses. Geologic logs for each of the above seven wells will also be reviewed.

B. Deep wells not used in modeling:

DC-1
DC-3
DC-5
DC-7
DC-8

Same materials as in A, but level of review, and time spent, will be less than for wells under A.

C. Paired well tests:

DC-4-5
DC-7-8

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Testing history, field data, data processing, interpretation, calculation of hydraulic parameters. Comparison of results from recent vs. earlier tracer tests.

D. Structural control:

Data from testing for evidence (non-evidence) for structural control of groundwater.

Wells tested
Wells to be tested
Data gathered
Method of interpretation

We have particular interest in:

- (1) Analysis and interpretation of McGees, O' Brien, and DB-11 wells.
- (2) Information from wells around Gable Mountain structure.