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LPDR  
WM-10 (2)

MAR 31 1987

NOTE TO: John J. Linehan, Acting Chief  
WMRP  
FROM: Paul Hildenbrand  
Tilak Verma

WM Record File 101 WM Project 10  
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SUBJECT: BWIP HYDROLOGY MEETING APRIL 6, 1987

After a preliminary review of the pre-meeting material received from the Department of Energy (DOE), the NRC staff and their contractors agree in general with the DOE's proposal for pre-exploratory shaft hydrogeologic testing. The proposed testing approach appears to be responsive to the intent of STP 1.1 and attempts to address the hydrogeologic concerns expressed by the NRC staff in the past. The staff and their contractors are presently reviewing this material in detail in preparation for the meeting with the DOE during the week of April 6 to discuss and, to the extent possible, resolve concerns regarding the approach to hydrogeologic testing at the Hanford site. It is anticipated that at this technical meeting, all parties will be able to reach agreement regarding the objectives of the testing program, the rationale for the specific tests being proposed and the schedules for implementing the testing program.

As part of the meeting preparation process, a telephone conference was held by DOE and NRC staff members on March 23, 1987 during which the NRC requested that certain topics be included in DOE's presentations at the meeting. These topics are as follows:

- Baseline hydraulic-head monitoring
  - Purpose of the monitoring program
  - Piezometer compliance/integrity
  - Cementing effects
  - Instrumentation and equipment
  - Use of the data collected (eg., calculation of environmental heads, fresh water heads, etc)
- Hydrochemical sampling
  - Purpose of the sampling program
  - Parameters being analyzed
  - Well development procedures utilized prior to sampling
  - Sampling equipment
  - Sample analysis procedures
  - Sample collection procedures
- Large - Scale hydraulic Stress tests
  - Effects of bridgeplugs on tests
  - Equipment (eg., pump selection)
  - Instrumentation (eg., transducers)
  - Analytical techniques that will be used for evaluating the test data

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**Tracer tests**

- Purpose of the tracer tests
- Instrumentation and equipment to be used
- Analytical techniques that will be used to evaluate the data and derive values for effective porosity and dispersivity

The NRC recognizes that many specifics of DOE's geohydrologic program are still being developed. However, the NRC has requested that the DOE provide as much detail as is possible at this time to facilitate technical discussion for resolving concerns with the proposed testing program and allow all interested parties to reach agreement regarding the objectives of the testing program, the rationale for the specific tests being proposed and the proposed schedules for implementing the testing program.

101/PH/BWIP HYD MTG 4/6/87

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