

Sandia National Laboratories

Albuquerque, New Mexico 87185

April 6, 1981

Mr. Lawrence W. Rossbach  
High-Level Waste Licensing  
Management Branch  
Division of Waste Management  
US Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Rossbach:

We have received the BWIP Data Package and find that we are in need of several documents that are referred to in the report but apparently are not directly available to us. Fran Nimick has indicated some of these needs to Paul Prestholz, and this letter reiterates these and specifies other areas in which we require data from DOE. One of our major concerns is in tracing back to the original sources of some of the data included in the package. It is not possible to judge the quality or general applicability of the data without the original sources. Since most of these reports come through the Rockwell Hanford Operations Office (RHO), your assistance will be required in obtaining them. If, in this case or in the future, we may contact RHO directly, please inform us of this. The information that we require includes:

1. From table of contents of BWIP Data Package, four sections to have been published in February 1981 are requested:
  - a. RSD-BWI-DP-023 Potentiometric Data and Contours (2/6/81)
  - b. RSD-BWI-DP-024 Reference Hydrologic Properties (2/13/81)
  - c. RSD-BWI-DP-025 BWIP Hydrologic Conceptual Model (2/13/81)
  - d. Repository Site Requirements (2/15/81)
2. In RSD-BWI-DP-004 (Groundwater Well Characteristics), a computer print out of well data is supposedly attached. We did not receive such a print out and are very interested in obtaining one.
3. In RSD-BWI-DP-009 (Reference Shaft Conditions), a log appears which is illegible. We would appreciate receiving a legible copy.

4. Two reports by Foundations Sciences, Inc. (FSI) of Portland, Oregon, are required:
  - a. Evaluation of the Geology and Groundwater Inflow for Shaft Sinking -- BWIP Repository Conceptual Design by FSI for KE/PB Joint Venture, April 1980.
  - b. Final Report on Area I Samples - For Geologic Characterization and Evaluation of Thermal Mechanical Properties of the NSTF Basalt Core - FY80.
5. Several RHO reports which are referred to in the BWIP data packages are required:
  - a. RHO-BWI-LD-23 - concerning Engineered Barriers
  - b. RHO-BWI-CD-51 REV - BWIP Site Characterization Plan (this may not be available to NRC and/or Sandia)
  - c. RHO-BWI-ST-9 - concerning important nuclides
  - d. RHO-BWI-C-67 - concerning borehole plugging
6. Any other hydrologic or geologic reports coming out of Rockwell Hanford could be very useful at this stage. We would appreciate receiving these as they become available.

Specifically related to Pasco Basin Basalts, DOE information on the following items is requested:

1. Effective porosities -- testing intervals and well locations
2. Dispersivities -- testing intervals, well locations, separation distances for wells in specific tests
3. Head and conductivity data
  - a. From old wells that have been retested
  - b. From new wells drilled and tested since issuance of report in October 1979
  - c. Test times, intervals tested, and locations of wells
4. The nature of northwest and northeast trending "structures" in the west central Pasco Basin that are alluded to in various reports (BWIP Annual Report, 1980, RHO data package, HIR, 10/79). Information on extent, orientation and properties of these features would be useful.

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We will appreciate very much your forwarding these requests to DOE for us as the information will be important to the development of a realistic reference repository definition. If, in the future, an arrangement can be made for us to contact Rockwell Hanford directly, it will certainly simplify and expedite our receipt (or at least request) of information of the types described above.

Sincerely,



Nancy C. Finley  
Fuel Cycle Risk Analysis  
Division 4413

NCF:ljs

Copy to:

4413 N. R. Ortiz  
4413 F. B. Nimick