



Department of Energy
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WM Project WM-10

Docket No.

PDR ☒

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Distribution

(Return to WM, 623-SS)

Dr. Robert J. Wright
Senior Technical Advisor
High Level Waste Technical
Development Branch
Division of Waste Management
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Dr. Wright:

NRC REQUEST FOR CLARIFICATION OF BWIP SCR (SCR-5)

As requested by your memorandum of December 22, 1982, and discussed by telephone on January 4, 1983, with you, P. Justus, D. Brooks, J. Starnes and R. Cook, NRC; J. LaRue, P. Salter, K. Kim and C. Shepard, Rockwell Basalt Project; and D. Squires of my staff, the following response is provided in answer to the question presented.

Question

Please clarify if all necessary information is provided in the SCR to verify the results provided in Table 4-11 (Summary of In Situ Stress Data by Hydro Frac Method). There are some inconsistencies in the results, i.e., the equations given on p. 4.6-2, Figure 4-17 and 4-18 and the results of Table 4-11 do not match.

Response

The data provided in Table 4-11 and equations given on p. 4.6-2 are entirely correct. The typical plots of pressure-time curves (Figures 4-17 and 4-18) are pressures monitored on the surface. Therefore, the hydraulic head has to be added to the surface monitored pressure to obtain the correct down hole pressures necessary to calculate the in situ stresses. The groundwater level at the test location was 105 feet. A comprehensive report that contains details on data reduction will be published soon.

If you have any questions on the above material, please call D. J. Squires of my staff.

O. L. Olson

O. L. Olson, Project Manager
Basalt Waste Isolation Project Office

BWI:DJS

cc: Ralph Stein, DOE/HQ

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