



Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

AUG 24 1987

87-LES-133

Mr. John J. Linehan, Acting Chief
Operations Branch
Division of High-Level Nuclear Waste
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Linehan:

GEOCHEMISTRY DATA EXAMINATION OF JULY 21-23, 1987

Attached please find the responses to the two remaining data clarification questions posed by Mr. D. Brooks at the July 21-23, 1987, Geochemistry Data Examination. Should you require further assistance concerning this matter, please contact Mr. M. J. Furman of my staff, on FTS 444-7062.

Sincerely,


John H. Anttonen, Assistant Manager
for Commercial Nuclear Waste

BWI:JMK

Attachment

cc: D. Brooks, NRC, w/att.

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WM-10 PDR

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WM Project: WM-10
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Response to Data Clarification Question # 7

Yes. The 0.01 M hydrazine initially added was not a sufficient amount of hydrazine to maintain N_p in the reduced oxidation state. Sorption rate curves for groundwater solutions without hydrazine were essentially the same as those with hydrazine. In most subsequent experiments with hydrazine, 0.05 M concentrations were used.

Response to Data Clarification Question # 10

The document, RHO-BW-SA-291 P, emphasized results obtained with the Mabton interbed material. Polyethylene containers were used in all of the work with Mabton interbed material (see RHO-N-458 pages 13, 19, 31, 39, 43, etc.). Some earlier work with sandstone (Figure 1 and Table III in the document) is also reported in which polycarbonate tubes were used. The use of polycarbonate tubes for these relatively few experiments was inadvertently left out of the general description of the sorption procedure given in the document.

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