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B0287

WM Project 10, 11
Docket No.

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(Return to WM, 623-SS)

Dr. Gary K. Jacobs
Environmental Sciences Division
Building 1505/Room 312
P.O. Box X
Oak Ridge National Laboratory
Oak Ridge, TN 37831

Dear Dr. Jacobs:

SUBJECT: CONTRACT NO. NRC-50-19-03-01, FIN B-0287, ORNL NO. 41-37-54-92-04,
"TECHNICAL ASSISTANCE IN GEOCHEMISTRY" AUGUST (1986) MONTHLY
PROGRESS REPORT

I have reviewed the August monthly progress report dated September 8, 1986.
Based on my review, I have the following comments.

Task 1 Basalt Geochemical Technical Assistance

- Progress to date is satisfactory
- ORNL review of "Icelandic basaltic geothermal field: A natural analog for nuclear waste isolation in basalt" (SD-BWI-TI-257) was received. I will review it during the week of October 6. If I have any questions I will contact Jim Blancoe directly.

Task 2 Tuff Geochemical Technical Assistance

- Progress to date is satisfactory.
- ORNL Review of "The Organic Geochemistry of Deep Ground Waters . . ." was received. This review has been given to John Bradbury for review. If there are any questions, Karen Von Damm will be contacted directly.

Task 3 Salt Geochemistry Technical Assistance

- Progress to date is satisfactory.
- ORNL review of "The Organic Geochemistry . . ." was also given to Walt Kelly for review for implications concerning salt. If he has any questions he will contact Karen Von Damm directly.

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Task 4 Short-term Technical Assistance

- Progress to date is satisfactory.
- ORNL reviews of "Actinide solubility in deep groundwaters . . .," and "Actinide carbonate complexes . . ." were received. These have been distributed to the geochemistry staff for review. If individual reviewers have comments they will contact Dave O'Kelley or Don Kelmers respectfully.
- Based on discussions that John Bradbury had at the Fallen Leaf Lake modeling workshop on the use of EQ3/EQ6 (September 15, 16 and 17), it appears that all three sites are going to use this code for geochemistry modeling. This being the case, we need to have a technical review of this code. The review should consider the current status of the EQ3/EQ6 model, as well as a discussion of its strong and weak points. I will call you during the week of September 28 so that we can discuss the level of detail needed for this review.

The action taken by this letter is considered to be within the scope of the current contract (FIN B-0287). No changes to cost or delivery of contracted services and products are authorized. Please notify me immediately if you believe that this letter would result in changes to cost or delivery of contracted products.

Original Signed By

David J. Brooks
Geochemistry Section
Geotechnical Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

OFC :WMGT : : : : : :
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FROM ORNL		DATE OF DOCUMENT 9/8/86	DATE RECEIVED 9/11	NO. MM-86782
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ENCLOSURES				
Ticket closed out by a letter to Dr. Jacobs on 86/09/24. RW				
REMARKS				
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