

426.1/A1166/A1158/RC/85/04/30

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Dr. Robert Cranwell, Supervisor
Waste Management Systems
Division 6431
Sandia National Laboratories
Albuquerque, NM 87185

Dear Dr. Cranwell:

I have reviewed your Monthly Progress Reports for FIN A1158 "Repository Site Definition and Technology Transfer" and FIN A1166, "Maintenance of Computer Programs." I have no comments on FIN A1166, but several comments on FIN A1158.

1. Comments on the Repository Site Definition for unsaturated tuff were sent to Regina Hunter on April 8.
2. Please document in your next report the resolution you reached with Eleni Davis of the accounting error in the March 1985 estimated Funding Status.
3. Matthew Gordon of the Geotechnical Branch relays several questions on the SWIFT and SWIFT 2 computer codes:
 - a. SWIFT and SWIFT 2 take as input the "Molecular Diffusivity" which includes porosity and tortuosity effects as stated on page 64 of NUREG/CR-2324. In models which have varying porosities, how does one assign different molecular diffusivities to the different zones? How does one assign the tortuosity?
 - b. Is the "fluid molecular diffusivity" noted on page 64 of the above reference the same as "molecular diffusion coefficient"?

Please address your responses directly to Matthew Gordon and also respond in your next monthly report. His phone number is (FTS) 427-4438.

Neil Coleman will be taking over the responsibilities of Project Officer on these two contracts starting with the next monthly report. I will bring him up to date on the provisions of the contracts and will continue to follow their progress.

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The action taken by this letter is considered to be within the scope of the current contract SOEW 50-81-43 and SOEW 50-82-20. 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.

Sincerely,

Original Signed By

Richard Codell, Project Officer
Hydrology Section
Geotechnical Branch
Division of Waste Management

cc: Dr. William Snyder, SNL
Dr. Regina Hunter, SNL

RC

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