

Sandia National Laboratories

Albuquerque, New Mexico 87185

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October 10, 1984

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Mr. Peter M. Ornstein
Geotechnical Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Silver Spring, MD 20910

WM-RES
WM Record File
A1158
SAL

WM Project 10, 11, 16
Docket No. _____
PDR ✓
LPDR ✓ (B.N.S)

Distribution:
Ornstein _____
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(Return to WM, 623-SS) _____

Dear Mr. Ornstein:

Enclosed is the monthly report on FIN A-1158, Repository Site Description and Technology Transfer for September 1984.

Please feel free to contact me if you have any questions or comments.

Sincerely,

Robert M. Cranwell

Robert M. Cranwell, Supervisor
Waste Management Systems
Division 6431

RMC:6431:jm

Enclosure

Copy to:
Office of the Director, NMSS
Attn: Program Support
Robert Browning, Director
Division of Waste Management
Malcolm R. Knapp
Division of Waste Management
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PDR WMRES EXISANL
A-1158 PDR

PROGRAM: Repository Site Definitions; FIN#: A-1158
Short-term Technical Assistance Tasks I, III

CONTRACTOR: Sandia National BUDGET PERIOD: 10/83 -
Laboratories 9/84

NMSS PROGRAM MANAGER: P. M. Ornstein BUDGET AMOUNT: \$364K

CONTRACT PROGRAM MANAGER: R. M. Cranwell FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: R. L. Hunter FTS PHONE: 846-6337
M. D. Siegel FTS PHONE: 846-5448

PROJECT OBJECTIVE

To develop reference repositories in media other than bedded salt (i.e., basalt, domed salt, welded tuff, and granite).

ACTIVITIES DURING SEPTEMBER 1984

Repository Site Definition

The first draft of Chs. 1 through 4 and 7 of the RSD for unsaturated tuff is complete, including the typed text, references, and appendices and rough drafts of figures.

A draft of Ch.6, Hydrology, is nearly complete and should be finished the first week in October. A draft of Ch. 5, Geochemistry, will be finished by the end of October.

Short-Term Technical Assistance

No activity.

ANTICIPATED PROBLEMS

No more work can be done on the RSD because there are currently no funds available. Although a revised 189 for FY85 was submitted several weeks ago, at the request of P. O. Ornstein, no FY85 funding has been received. Delays in receiving the funding may cause delays in completion of the RSD and will drive up the overall cost of the RSD.

PROGRAM: Technology Transfer FIN#: A-1158
Task II

CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 10/83 -
9/84

NMSS PROGRAM MANAGER: P. M. Ornstein BUDGET AMOUNT: \$315K

CONTRACT PROGRAM MANAGER: R. M. Cranwell FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: R. L. Hunter FTS PHONE: 846-6337
M. D. Siegel FTS PHONE: 846-5448

PROJECT OBJECTIVE

To insure through technical support, problem definition, and documentation the timely, thorough, and efficient transfer of the information, analysis techniques, and analysis tools developed for the U.S. Nuclear Regulatory Commission (NRC) by the methodology program.

ACTIVITIES DURING SEPTEMBER 1984

SWIFT II Self-Teaching Curriculum

The NRC review comments on the report entitled "SWIFT II Self-Teaching Curriculum: Illustrative Problems for the Sandia Waste-Isolation Flow and Transport Model for Fractured Media" were received on September 16, 1984. These comments and those from the SNLA staff and management are being incorporated into the final camera-ready copy of the report.

As noted in the August monthly report, a new version of the SWIFT II computer code has been received from GeoTrans, Inc. This version of SWIFT II considers top-centered versus block-centered boundary conditions. The sample problems included in the Self-Teaching Curriculum have been converted to the block-centered boundary conditions by adjusting the data input. SNLA is waiting for the documentation from GeoTrans, Inc., describing the block-centered boundary conditions and the adjustments in the input data that are necessary to implement this approach. This documentation will be included in the final copy of the Self-Teaching Curriculum.

Self-Contained Document for TOUGH

The tasks described in the August monthly report for the development of the TOUGH document by Karsten Pruess have been included in the Purchase Requisition for the LBL/SNLA contract. A sole source justification for this contract is in

final typing. The contract, with a ceiling price of \$80,000, is expected to be in place in the next few weeks.

ANTICIPATED PROBLEMS

Currently there are problems with the contract between SNLA and GeoTrans, Inc. that developed while adding additional funds to the contract. These contractual problems may delay receipt of the documentation on the block-centered boundary conditions. Efforts are underway to resolve these issues and hopefully this will not cause any delay in the completion of the Self-Teaching report by November 15, 1984.

October 10, 1984

Due to the end of our fiscal year, Sandia's Accounting Department will not make budget figures available to our organization until after October 16. We will forward budget sheets to you as soon as possible after that date.