

Sandia National Laboratories

Albuquerque, New Mexico 87185

WM BUCKET CONTROL CENTER

June 15, 1984

'84 JUN 13 P3:15

WM Record File
A-1158

WM Project 10, 11, 16

Docket No. 10

PDR 10

LPDR (13, N, S)

Distribution:

Ornstein	PHH
Jones-Ticket	
(Return to WM, 623-SS)	

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

Dear Mr. Ornstein:

Enclosed is the monthly report on FIN A-1158, Repository Site Description and Technology Transfer for May 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
Enrico Conti, Branch Chief
Health Siting & Waste Management Division
John Randall
Health Siting & Waste Management Division
6431 R. M. Cranwell
6431 R. V. Guzowski
6431 R. L. Hunter
6431 G. E. Runkle
6431 M. D. Siegel
6431 K. K. Wahi

8409060145 840615
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: \$265K

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 MAY 1984

Repository Site Definition

Much of a draft of Ch. 1, Regional Setting, has been completed far ahead of schedule. This progress has been possible because references requested for some other chapters have not yet arrived. Literature review is continuing for chapters on Geologic Structure, Petrology and Mineralogy, Stratigraphy, Hydrology, and Geochemistry. There were several meetings to discuss the projected cost of the RSD. A presentation on the unsaturated tuff RSD has been prepared for the June 25-27 review meeting. Work on the RSD will be delayed because of the meeting and preparation for it.

Short-Term Technical Assistance

During May, we discovered that more money has been spent for Short-Term TA than was budgeted. Apparently some NRC staff believed that \$120K had been budgeted, when in fact the amount was only \$60K. Approximately \$79K has been spent.

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: \$245K

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 MAY 1984

SWIFT II Self-Teaching Curriculum

The report entitled "SWIFT II Self-Teaching Curriculum: Illustrative Problems for the Sandia Waste-Isolation Flow and Transport Model for Fractured Media" has been extensively revised by Paul Davis, Evaristo Bonano, Gene Runkle and an independent technical editor. These comments have been incorporated into one text for retyping and then final review by the Sandia and NRC Staff. The revised copy is expected to be available by late June with a final camera-ready copy being sent to NRC by July, 1984. This review and revision process has been time consuming; however, the text has been clarified and been made more concise, the sample problems have been executed and verified with the Sandia version of the SWIFT II code, and the data input for the sample problems have been modified to be consistent with this version of the code. A new microfiche of the results for the sample problems has been prepared for publication with the final copy of the report.

TOUGH Self-Contained Document

The request for the development of the document was sent to Karsten Pruess as indicated in the April Monthly report. Karsten Pruess and his colleagues are preparing the detailed outline and are expected to provide this to Sandia by June 1, 1984. This information will be reviewed by Sandia and forwarded to the NRC project manager for comment.

Because of the meeting in Washington between Division 6431 and Dr. Malcolm Knapp and other NRC staff at the end of June, it is expected that we will schedule a meeting with K. Pruess at Lawrence Berkeley with Sandia staff and the NRC PM in early July, 1984 to discuss the scheduling and cost estimates for the self-contained document. This slight delay will not impede the progress of the project, as the earliest scheduled start for the development of this document is September or October, 1984.