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Sandia National Laboratories

Albuquerque, New Mexico 87185

WM DOCKET CONTROL CENTER

August 14, 1985 '85 AUG 15 A11:19

Neil M. Coleman
Hydrology Section
Geotechnical Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Silver Spring, MD 20910

WM-RES
 WM Record File
 (A-1158)
 SNL

WM Project 10, 11, 16
 Docket No. _____
 PDR
 LPDR B, N, S
 Distribution: Joan Tacket
 COLEMAN
 STILL
 (Return to WM, 623-SS)

Dear Mr. Coleman:

Enclosed is the monthly report on FIN A-1158, Repository Site Description and Technology Transfer for July 1985.

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

Sincerely,

Margaret Chu for
R.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
- Division of Radiation Programs and Earth Sciences
- 6400 R. C. Cochrell
- 6430 N. R. Ortiz
- 6431 R. M. Cranwell
- 6431 R. L. Hunter

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 PDR WMRES EXISANL
 A-1158 PDR

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

CONTRACTOR: Sandia National LABORATORIES BUDGET PERIOD: 10/84 -
9/85

NMSS PROGRAM MANAGER: N. M. Coleman BUDGET AMOUNT: \$90K

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 JULY 1985

The final draft of the RSD for unsaturated tuff is in Sandia management review.

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

CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 10/84 -
9/85

NMSS PROGRAM MANAGER: N. M. Coleman BUDGET AMOUNT: \$239K

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 JULY 1985

TOUGH

Work on the sample problems is progressing. Dr. Pruess completed the heat pipe problem, obtaining excellent agreement with a known semi-analytical solution. This problem brought to light an interesting issue in the weighting of binary diffusion parameters near phase boundaries, handling of which required some subtle modifications in the TOUGH code. Dr. Pruess concentrated on the user's guide during July. He completed a first rough draft, containing most of the material to be included in the final document, with the exception of the sample problems. We expect to receive a copy of the draft as soon as it is typed.

SWIFT II STC

Final problems with the SWIFT II Self-Teaching Curriculum were resolved during a visit with Dave Ward of Geotrans. Final drafting of the figures is complete. Minor typographical corrections to the text and microfiche copies of data input for the problems must be prepared. Sandia technical and management review are expected to take at least eight weeks.

A-1158, Tasks I and III
 0976.020
 July 1985

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	Current Month	Year-to-Date
I. Direct Manpower (man-months of charged effort)	0.0	0.5
II. Direct Loaded Labor Costs	0.0	5.0
Materials and Services	1.0	1.0
ADP Support (computer)	0.0	0.0
Subcontracts*	0.0	194.0
Travel	0.0	0.0
Other	<u>0.0</u>	<u>1.0</u>
TOTAL COSTS	1.0	201.0

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY85 Projected Funding Level	FY85 Funds Received to Date	FY85 Funding Balance Needed
None	90K	90K	None

*We are expecting reimbursements as indicated in earlier monthly reports.

A-1158, Task II
 0976.010
 July 1985

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	Current Month	Year-to-Date
I. Direct Manpower (man-months of charged effort)	0.2	1.8
II. Direct Loaded Labor Costs	1.0	14.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts*	5.0	52.0
Travel	0.0	0.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	6.0	66.0

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY85 Projected Funding Level	FY85 Funds Received to Date	FY85 Funding Balance Needed
172K	239K	67K	None

*Subcontractor charges are from LBL (Karsten Pruess).

A-1158

TOTAL FOR 0976.010 and 0976.020

July 1985

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	Current Month	Year-to-Date
I. Direct Manpower (man-months of charged effort)	0.2	2.3
II. Direct Loaded Labor Costs	1.0	19.0
Materials and Services	1.0	1.0
ADP Support (computer)	0.0	0.0
Subcontracts	5.0	246.0
Travel	0.0	0.0
Other	<u>0.0</u>	<u>1.0</u>
TOTAL COSTS	7.0	267.0

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY85 Projected Funding Level	FY85 Funds Received to Date	FY85 Funding Balance Needed
172K	329K	157K	None