

Sandia National Laboratories

Albuquerque, New Mexico 87185

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June 14, 1985

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WM-RES  
WM Record File  
A1158  
SNL

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

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

Distribution:

Coleman  
Span-ticket  
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(Return to WM, 623-SS) *ef*

Dear Mr. Coleman:

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

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  
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6400 R. C. Cochrell  
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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  
(Final)

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 1985

The final draft of the RSD for unsaturated tuff is in preparation. Sandia management review will take place during late June and early July. As discussed with N. M. Coleman by telephone, we will make every effort to mail the final camera-ready report on July 12.

#### POSSIBLE PROBLEMS

We have been having serious hardware failures of the word processor. If the problems continue, the final draft could be delayed. N. R. Ortiz, who must sign off on the report, will be out of town until the first part of July. His schedule could also lead to a slight delay.

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

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

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

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 1985

Documentation of the TOUGH code is proceeding on schedule. Karsten Pruess reports that the National Energy Software Center (NESC) has signed an agreement with Harwell that will permit them to distribute the MA28 package as part of the TOUGH code without charge. He has received a tape with MA28 updates as received from Harwell. This part of the work has been completed on schedule.

Pruess has completed three of the sample problems for the TOUGH user's guide. Work on the other sample problems is underway.

Conversion of the TOUGH code to a Cray computer has begun.

A-1158, Tasks I and III  
 0976.020  
 May 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)	0.1	0.5
II. Direct Loaded Labor Costs	1.0	5.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts*	-45.0	137.0
Travel	0.0	0.0
Other	0.0	1.0
<b>TOTAL COSTS</b>	<b>-44.0</b>	<b>143.0</b>

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

\*There were no new subcontractor charges this month. \$44,342 has been reimbursed. We are still expecting an additional reimbursement of approximately \$60K.

A-1158, Task II  
 0976.010  
 May 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)	0.1	1.5
II. Direct Loaded Labor Costs	1.0	12.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts*	8.0	41.0
Travel	0.0	0.0
Other	-1.0	1.0
<b>TOTAL COSTS</b>	<b>8.0</b>	<b>54.0</b>

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

\* Includes \$8K in new subcontractor charges (Karsten Pruess), \$139.00 in other charges, and \$525.00 in reimbursed charges.

\*\*Final

A-1158

TOTAL FOR 0976.010 and 0976.020

May 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	2.0
II. Direct Loaded Labor Costs	2.0	17.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	-37.0	178.0
Travel	0.0	0.0
Other	-1.0	2.0
TOTAL COSTS	-36.0	197.0

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

\*Final