

Sandia National Laboratories

Albuquerque, New Mexico 87185

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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  
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Joan - ticket  
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Dear Mr. Coleman:

Enclosed is the monthly report on FIN A-1158, Repository Site Description and Technology Transfer for April 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  
John Randall  
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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  
(Tentative)

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 APRIL 1985

##### Repository Site Definition

NRC's comments on the RSD were received in mid-April, and we began revising the RSD immediately. Because the NRC comments were not extensive, we simultaneously put the manuscript into Sandia technical review. Technical review should be complete in early May. The geochemical data base has been updated with data from a recent Los Alamos Progress Report (LA-10154-PR).

Most of the subcontractor charges of \$26K on this contract will be credited at a later date. A request for reclassification of about \$60K in funds for this project has been made but is requiring some time to get through the Sandia budgeting system.

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: \$277K  
(Tentative)

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 APRIL 1985

The TOUGH code was put into final form on schedule, except for minor modifications that may still become necessary during development of sample problems. We were informed by the National Energy Software Center (NESC) that a licensing agreement with the Harwell Laboratory has been completed. This will make it possible to incorporate the MA28 subroutine package into TOUGH for NESC distribution. Development of sample problems is proceeding as planned. However, we have been informed by Karsten Pruess that there may be a delay of perhaps several weeks, because of major hardware changes in LBL's computer center. Their CDC-7600 will go away in June 1985, and it will be necessary to convert the code to a different mainframe, probably to a Cray computer at Lawrence Livermore Laboratory. This may set back expected completion time for the entire project by perhaps one month, to November 30, 1985. Please let us know whether such a delay would cause a problem. If we do not hear from you to the contrary by June 15, we will arrange a no-cost extension.

A-1158, Tasks I and III  
 0976.020  
 April 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	0.4
II. Direct Loaded Labor Costs	0.0	4.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts*	26.0	182.0
Travel	0.0	0.0
Other	<u>-1.0</u>	<u>1.0</u>
<b>TOTAL COSTS</b>	<b>25.0</b>	<b>187.0</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

\*Most of this month's new charges will be reimbursed. The 60K  
 referred to in previous monthly reports is still in Sandia  
 accounting.

A-1158, Task II  
 0976.010  
 April 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	1.4
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	33.0
Travel	0.0	0.0
Other	<u>0.0</u>	<u>0.0</u>
<b>TOTAL COSTS</b>	<b>9.0</b>	<b>45.0</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	277K	105K	NONE

\*Includes \$8K in new subcontractor charges (Karsten Pruess) and \$140.00 in reimbursed charges.

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TOTAL FOR 0976.010 and 0976.020

April 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	16.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	34.0	215.0
Travel	0.0	0.0
Other	<u>-1.0</u>	<u>1.0</u>
TOTAL COSTS	34.0	232.0

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	367K	None	195K