

Sandia National Laboratories

Albuquerque, New Mexico 87185

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A 1755

WM Project 1D, 11, 16  
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May 11, 1984

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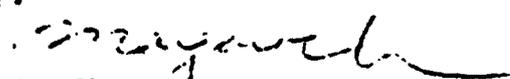
Dr. M. S. Nataraja  
Engineering Branch  
Division of Waste Management  
U.S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Spring, MD 20910

Dear Dr. Nataraja:

The enclosed monthly report summarizes the activities during the month of April for FIN A-1755.

If you have any questions, please feel free to contact either myself at FTS 844-9931 or Krishan Wahi at FTS 844-6268.

Sincerely,



Margaret S. Chu  
Waste Management Systems  
Division 6431

MSC:6431:jm

Copy to:  
6431 R. M. Cranwell  
6431 M. S. Y. Chu  
6431 K. K. Wahi

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A-1755 PDR

PROGRAM: Coupled Thermal-Hydrological- Mechanical Assessments and Site Characterization Activities for Geologic Repositories FIN#: A-1755

CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 3/84 - 9/84

DRA PROGRAM MANAGER: M. S. Nataraja BUDGET AMOUNT: 250K

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

PRINCIPAL INVESTIGATOR: M. S. Y. Chu FTS PHONE: 844-9931

**PROJECT OBJECTIVES**

To provide technical assistance to NRC in the assessment of coupled thermal-hydrological-mechanical phenomena and site characterization activities for high-level waste repositories.

**ACTIVITIES DURING APRIL 1984**

Activities and Accomplishments

The Project Work Plan was finalized and sent to the NRC. A cursory review of the BWIP Heater Test data was performed to establish whether sufficient data were available for SNLA to perform independent analyses. A recommendation was made to the NRC to authorize SNLA to do some modeling of the two heater tests. NRC's draft document on the "Disturbed Zone Definition" was reviewed and the SNLA comments were sent to the NRC PM. K. Wahi and J. Daemen participated in a Document Review Meeting in Silver Spring on April 17 and 18. At this meeting, SNLA was asked by the NRC to perform some analyses of the effects of shaft seal failure in salt media. During the latter part of April, K. Wahi looked into various models and our preliminary decision is to use the DNET code for the above analyses. We are in the process of formulating the shaft failure problem(s) and identifying the data needs of such an analysis. SNLA also assisted by providing input to the NRC on certain other short documents.

A-1755  
 1628.010  
 April 1984

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

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

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY84 Projected Funding Level	FY84 Funds Received to Date	FY84 Funding Balance Needed
None	250K	250K	None

The charges to this project have not yet been processed through Sandia's Accounting Department. This is the reason that no charges appear despite the fact that activity has taken place.