

Sandia National Laboratories

Albuquerque, New Mexico 87185

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WM Project 10, 11, 16  
Docket No. \_\_\_\_\_  
PDR   
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February 1, 1985

Distribution:  
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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 January for FIN A-1755.

If you have any questions, please feel free to contact either myself at FTS 844-5303 or Krishan Wahi at FTS 844-6268.

Sincerely,

*R. M. Cranwell*

R. M. Cranwell  
Supervisor  
Waste Management Systems  
Division 6431

RMC:6431:jm

Copy to:  
6430 N. R. Ortiz  
6431 R. M. Cranwell  
6431 E. J. Bonano  
6431 K. K. Wahi

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PDR WMRES EXISANL  
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 10/84-9/85

DRA PROGRAM MANAGER: M. S. Nataraja BUDGET AMOUNT: 365K

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

PRINCIPAL INVESTIGATOR: E. J. Bonano FTS PHONE: 844-5303

#### 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 JANUARY 1984

##### Activities and Accomplishments

During January 1985, most of the staff involved in this project spent the majority of their efforts in the review of the draft EA's. As a result, progress in the project was limited. Krishan Wahi and Jaak Daemen spent the weeks of January 14-18 and January 28-February 1 at NRC in Silver Spring reviewing EA's.

Paul Davis attended the 17th International Congress on "Hydrology of Rocks of Low Permeability" in Tucson, AZ during January 7-12. A trip report is forthcoming.

Per NRC's request, Krishan Wahi will be attending the workshop on "Coupled Thermo-Mechanical-Hydro-Chemical Processes Associated with a Nuclear Waste Repository" the last week in February at Lawrence Berkeley Laboratory.

##### Problems Encountered

None.

##### Travel

Jaak Daemen and Krishan Wahi spent two weeks at Silver Spring (see above), and Paul Davis attended the Congress on "Hydrology of Rocks of Low Permeability."

PROGRAM: Maintenance and Validation of Computer Programs FIN#: A-1166

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

NMSS PROGRAM MANAGER: R. B. Codell BUDGET AMOUNT: \$30K

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

PRINCIPAL INVESTIGATORS: P. A. Davis FTS PHONE: 846-5421

#### PROJECT OBJECTIVES

The objective is a maintenance task that will ensure that the Sandia computer programs remain consistent with current operating systems, are as error-free as possible, and have up-to-date documentation for NRC. There is also a validation assessment task to identify real physical situations which could provide data for validation of the Sandia computer program.

#### ACTIVITIES DURING JANUARY 1985

No activity.

A-1755  
 1628.010  
 January 1985

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) | 0.9         | 3.3                  |
| II. Direct Loaded Labor Costs                     | 9.0         | 32.0                 |
| Materials and Services                            | 0.0         | 0.0                  |
| ADP Support (computer)                            | 0.0         | 1.0                  |
| Subcontracts                                      | 28.0        | 65.0                 |
| Travel  | 0.0         | 0.0                  |
| Other   | <u>1.0</u>  | <u>0.0</u>           |
| <b>TOTAL COSTS</b>                                | <b>38.0</b> | <b>98.0</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 |
|--------------------|------------------------------|-----------------------------|-----------------------------|
| 115K               | 365K                         | 250K                        | None                        |