

WM DOCKET CONTROL  
CENTER

Sandia National Laboratories

Albuquerque, New Mexico 87185

October 13, 1985

'85 OCT 15 AM 11:00

Dr. Atef Elzeftawy  
Repository Projects Branch  
Division of Waste Management  
U.S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Spring, MD 20910

WM-RES  
WM Record File  
A-1165  
SNL

WM Project 1D, 11, 16  
Docket No. \_\_\_\_\_  
PDR ✓  
LPDR B, N, S

Distribution:  
ELZEFTAWY  
STILL  
(Return to WM, 623-SS)

Jean Tillet

73

Dear Dr. Elzeftawy:

Enclosed is the summary of activities during September 1985 for the following tasks (A-1165): (I) Assisting in the Development of the Licensing Assessment Methodology (II) Monitor and Review Aspects of DOE programs; (III) Identifying Techniques for Probability Assignments; and (IV) Short Term Technical Assistance.

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  
Hubert Miller  
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

8510240153 851013  
PDR WMRES EXISANL  
A-1165 PDR

2479



PROGRAM: Monitor/Review Aspects of DOE  
& other National and Inter-  
national Waste Management  
Programs

FIN#: A-1165  
Task II

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

NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$86K

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

PRINCIPAL INVESTIGATORS: R. L. Hunter FTS PHONE: 846-6337

#### PROJECT OBJECTIVES

To monitor and review the performance assessment aspects of DOE and other national and international waste management programs.

#### ACTIVITIES DURING SEPTEMBER 1985

No activity. \$75K of the \$85K FY85 funding has been spent. The remaining \$10K will be carried over.

PROGRAM: Probability Techniques FIN#: A-1165  
Task III

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

NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$202K

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

PRINCIPAL INVESTIGATORS: R. L. Hunter FTS PHONE: 846-6337

#### PROJECT OBJECTIVES

To identify techniques for assigning probabilities to geologic processes and events.

#### ACTIVITIES DURING SEPTEMBER 1985

Purchase orders for contracts with Heinrich Holland and Allin Cornell are in Sandia Purchasing. Barring complications, their contracts should be in place by mid-October. However, each has explained that, because of prior commitments, he will be unable to complete the work by January of 1986, when the rest of the report will be finished. We now plan to submit the final report, containing all chapters, to NRC on July 31, 1986.

Draft reports have been received from four panelists. Other experts appear to be making satisfactory progress. All drafts received so far appear to be on target. At this time, we foresee no difficulty in providing a first draft that includes all but the sections on seismology and geochemistry on Jan. 2.

Only \$132K of the \$202K FY85 funding has been spent, primarily because of the deadline extension given to the experts. The remaining \$70K will be carried over and probably will be spent early in FY86.

PROGRAM: Short-Term Technical Assistance FIN#: A-1165  
Task IV  
CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 10/84-  
9/85  
NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$50K  
CONTRACT PROGRAM MANAGER: R. M. Cranwell FTS PHONE: 844-8368  
PRINCIPAL INVESTIGATORS: R. L. Hunter FTS PHONE: 846-6337

#### PROJECT OBJECTIVES

To monitor and review the performance assessment aspects of DOE and other national and international waste management programs.

#### ACTIVITIES DURING SEPTEMBER

R. L. Hunter and G. B. Baecher attended the Performance Allocation pre-meeting in Silver Spring on September 5. Hunter, Baecher, and R. M. Cranwell attended the Performance Allocation meeting between NRC and DOE on September 26.

Very little of the STTA funding was spent during FY85; \$47K will be carried over.

A-1165, Task I  
 1183.010  
 September 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) | 0.5           | 6.3          |
| II. Direct Loaded Labor Costs                     | 4.0           | 65.0         |
| Materials and Services                            | 0.0           | 0.0          |
| ADP Support (computer)                            | 0.0           | 0.0          |
| Subcontracts*                                     | -6.0          | 20.0         |
| Travel  | 1.0           | 2.0          |
| Other   | 0.0           | -1.0         |
| <b>TOTAL COSTS</b>                                | <b>-1.0</b>   | <b>86.0</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               | 150K                         | 150K                        | None                        |

\*Includes a \$16K credit.

A-1165, Task II  
 1183.020  
 September 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           | 4.5          |
| II. Direct Loaded Labor Costs                     | 0.0           | 48.0         |
| Materials and Services                            | 0.0           | 0.0          |
| ADP Support (computer)                            | 0.0           | 0.0          |
| Subcontracts*                                     | 1.0           | 22.0         |
| Travel  | 0.0           | 5.0          |
| Other   | 0.0           | 0.0          |
| <b>TOTAL COSTS</b>                                | <b>1.0</b>    | <b>75.0</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 |
|--------------------|------------------------------|-----------------------------|-----------------------------|
| 36K                | 86K                          | 50K                         | None                        |

\*Subcontractor charges represent an invoice for work done in prior months.

A-1165, Task III  
 1183.030  
 September 1985

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

|   | Current<br>Month | Year-to-Date |
|---|------------------|--------------|
| I. Direct Manpower (man-months of charged effort) | 0.3              | 5.4          |
| II. Direct Loaded Labor Costs                     | 2.0              | 56.0         |
| Materials and Services                            | 0.0              | 1.0          |
| ADP Support (computer)                            | 0.0              | 0.0          |
| Subcontracts*                                     | 21.0             | 73.0         |
| Travel  | 0.0              | 2.0          |
| Other   | <u>0.0</u>       | <u>0.0</u>   |
| TOTAL COSTS                                       | 23.0             | 132.0        |

Other = rounding approximation by computer

III. Funding Status

| Prior FY Carryover | FY85 Projected Funding Level | FY85 Funds Received to Date | FY85 Funding Balance Needed |
|--------------------|------------------------------|-----------------------------|-----------------------------|
| 52K                | 202K                         | 150K                        | None                        |

\*Charges were received from most experts.

A-1165, Task IV  
 1183.040  
 September, 1985

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

|   | Current<br>Month | Year-to-Date |
|---|------------------|--------------|
| I. Direct Manpower (man-months of charged effort) | 0.2              | 0.3          |
| II. Direct Loaded Labor Costs                     | 2.0              | 2.0          |
| Materials and Services                            | 0.0              | 0.0          |
| ADP Support (computer)                            | 0.0              | 0.0          |
| Subcontracts                                      | 0.0              | -1.0         |
| Travel  | 0.0              | 2.0          |
| Other   | <u>0.0</u>       | <u>0.0</u>   |
| TOTAL COSTS                                       | 2.0              | 3.0          |

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               | 50K                          | 50K                         | None                        |

A-1165

TOTAL FOR 1183.010, 1183.020, 1183.030, and 1183.040

September 1985

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

|  | Current<br>Month | Year-to-Date |
|--|------------------|--------------|
| I. Direct Manpower (man-months<br>of charged effort) | 1.0              | 16.5         |
| II. Direct Loaded Labor Costs                        | 8.0              | 171.0        |
| Materials and Services                               | 0.0              | 1.0          |
| ADP Support (computer)                               | 0.0              | 0.0          |
| Subcontracts   | 16.0             | 114.0        |
| Travel   | 1.0              | 11.0         |
| Other  | 0.0              | -1.0         |
| <b>TOTAL COSTS</b>                                   | <b>25.0</b>      | <b>296.0</b> |

Other = rounding approximation by computer

III. Funding Status

| Prior FY<br>Carryover | FY85 Projected<br>Funding Level | FY85 Funds<br>Received to Date | FY85 Funding<br>Balance Needed |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| 88K                   | 488K                            | 400K                           | None                           |