

Sandia National Laboratories

Albuquerque, New Mexico 87185

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May 15, 1985

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A1165  
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WM Project 10, 11, 16

Docket No. \_\_\_\_\_

PDR

LPDR  (B, N, S)

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

Distribution:

Elzeftawy still

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Dear Dr. Elzeftawy:

Enclosed is the summary of activities during April 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
- 6430 N. R. Ortiz
- 6431 R. M. Cranwell
- 6431 R. L. Hunter
- 6431 M. S. Chu

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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 APRIL 1985

No activity.

PROGRAM: Licensing-methodology Assistance FIN#: A-1165  
Task I

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

NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$150K

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

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

#### PROJECT OBJECTIVES

To assist in the overall development and integration of the licensing assessment methodology.

#### ACTIVITIES DURING APRIL 1985

We have begun the review and summary of two more Sandia documents on far-field performance assessment methodology.

We are continuing the preparation of the overview document that will describe the overall licensing assessment methodology (LAM) and its relationship to the licensing issues. The overview document will briefly discuss what components of the LAM are necessary, which of these have been completed and which are under development, and what codes are currently under consideration for use in consequence analysis. A semiannual review of this task will take place in Silver Spring on May 10. A limited amount of time was spent preparing for the review during April. A rough draft of the overview document will be submitted by telefax in early May, before the semiannual review.

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 APRIL 1985

No activity.

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 APRIL 1985

Contracts for all but three of the expert panelists have been prepared and are in Sandia purchasing. The remaining three are in management review. Michael King of Lawrence Berkeley Laboratory will be the panelist for thermomechanical effects.

Some time was spent in April preparing for the semiannual review.

A-1165, Task IV  
 1183.040  
 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	0.1
II. Direct Loaded Labor Costs	0.0	1.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	0.0	-1.0
Travel	0.0	0.0
Other	<u>0.0</u>	<u>-1.0</u>
TOTAL COSTS	0.0	-1.0

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, Task I  
 1183.010  
 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)	0.4	4.3
II. Direct Loaded Labor Costs	4.0	44.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	0.0	5.0
Travel	0.0	0.0
Other	<u>1.0</u>	<u>0.0</u>
TOTAL COSTS	5.0	49.0

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	150K	150K	None

A-1165, Task II  
 1183.020  
 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	4.3
II. Direct Loaded Labor Costs	0.0	47.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	1.0	9.0
Travel	0.0	5.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	1.0	61.0

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY85 Projected Funding Level	FY85 Funds Received to Date	FY85 Funding Balance Needed
36K	86K	50K	None

A-1165, Task III  
 1183.030  
 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)	0.9	2.5
II. Direct Loaded Labor Costs	10.0	27.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	0.0	1.0
Travel	0.0	1.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	10.0	29.0

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

A-1165

TOTAL FOR 1183.010, 1183.020, 1183.030, and 1183.040

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)	1.3	11.2
II. Direct Loaded Labor Costs	14.0	119.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	1.0	14.0
Travel	0.0	6.0
Other	<u>1.0</u>	<u>-1.0</u>
<b>TOTAL COSTS</b>	<b>16.0</b>	<b>138.0</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
88K	488K	400K	None