

Sandia National Laboratories

Albuquerque, New Mexico 87185

February 15, 1986

WM DOCKET CONTROL
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'86 FEB 26 A11:51

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

Dear Dr. Elzeftawy:

Enclosed is the summary of activities during January 1986 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.

FY86 funding for Tasks I, II, and IV has been received.

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
Seth Coplan
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

WM-RES
WM Record File
A1165
SNL

WM Project 10, 11, 16
Docket No. _____

PDR ☒
LPDR ☒ (B, N, S)

Distribution:

*Elzeftawy | Joan-ticket
| N/S/11
(Return to WM, 623-SS) | Sac

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PDR WMRES EXISANL
A-1165 PDR

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

CONTRACTOR: Sandia National Laboratories **BUDGET PERIOD:** 10/85-9/86

NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$200K

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 JANUARY 1986

No activity.

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: 10/85-
9/86

NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$110K

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 JANUARY 1986

No activity.

PROGRAM: Probability Techniques

FIN#: A-1165
Task III

CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 10/85-
9/86

NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: 85K

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 JANUARY 1986

Very little work was done on this task during January, but the drafts of four chapters of the probability report were completed.

UNAVOIDABLE DELAYS

Work on this Task was suspended for four weeks in December and January at the direction of NRC staff; this suspension of activity will continue until mid-February. We are scheduled to move to another building in February and will lose one to two weeks' work at that time. Work on the remaining chapters of the probability report will resume sometime late in February.

PROGRAM: Short-Term Technical Assistance FIN#: A-1165
Task IV
CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 10/85-
9/86
NMSS PROGRAM MANAGER: A. Elzeftawy BUDGET AMOUNT: \$98K
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 JANUARY 1986

R. L. Hunter, R. M. Cranwell, and M. S. Y. Chu spent most of January preparing a draft of the report "Assessing Compliance with the EPA High-Level Waste Standard: An Overview," SAND86-0121, NUREG/CR-4510. Hunter and Cranwell met on January 28 and 29 with A. Elzeftawy, D. Fehringer, J. Trapp, and M. Knapp to discuss NRC comments on the report. We expect to submit the final camera-ready copy in mid-February.

\$50K of the funding received for FY86 has been allocated to this task. We estimate that this \$50K will cover the total cost of preparing the report discussed above.

A-1165

TOTAL FOR 1183.010, 1183.020, 1183.030, 1183.040

January 1986

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) | 1.6 | 5.5 |
| II. Direct Loaded Labor Costs | 20.0 | 63.0 |
| Materials and Services | 0.0 | 0.0 |
| ADP Support (computer) | 0.0 | 0.0 |
| Subcontracts | 17.0 | 69.0 |
| Travel | 0.0 | 5.0 |
| Other | <u>0.0</u> | <u>1.0</u> |
| TOTAL COSTS | 37.0 | 138.0 |

Other = rounding approximation
by computer

III. Funding Status

| Prior FY Carryover | FY86 Projected Funding Level | FY86 Funds Received to Date | FY86 Funding Balance Needed |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| 193K | 493K | 300K | None |

A-1165, Task III
 1183.030
 January 1986

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 | 3.5 |
| II. Direct Loaded Labor Costs | 4.0 | 38.0 |
| Materials and Services | 0.0 | 0.0 |
| ADP Support (computer) | 0.0 | 0.0 |
| Subcontracts | 2.0 | 35.0 |
| Travel | 0.0 | 1.0 |
| Other | <u>0.0</u> | <u>0.0</u> |
| TOTAL COSTS | 6.0 | 74.0 |

Other = rounding approximation
 by computer

III. Funding Status

| Prior FY Carryover | FY86 Projected Funding Level | FY86 Funds Received to Date | FY86 Funding Balance Needed |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| 85K | 85K | None | None |

A-1165, Task I
1183.010
January 1986

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 | 0.6 |
| II. Direct Loaded Labor Costs | 0.0 | 7.0 |
| Materials and Services | 0.0 | 0.0 |
| ADP Support (computer) | 0.0 | 0.0 |
| Subcontracts | 4.0* | 23.0 |
| Travel | 0.0 | 2.0 |
| Other | <u>0.0</u> | <u>0.0</u> |
| TOTAL COSTS | 4.0 | 32.0 |

Other = rounding approximation
by computer

III. Funding Status

| Prior FY Carryover | FY86 Projected Funding Level | FY86 Funds Received to Date | FY86 Funding Balance Needed |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| 50K | 200K | 150K | None |

*The contractor charges for this month are from work performed
in previous months. Because of delays in processing invoices,
contractor charges frequently show up several months later than
the actual time the work was done.

A-1165, Task II
1183.020
January 1986

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 | 11.0* | 10.0 |
| Travel | 0.0 | 0.0 |
| Other | 0.0 | 0.0 |
| TOTAL COSTS | 11.0 | 11.0 |

Other = rounding approximation
by computer

III. Funding Status

| Prior FY Carryover | FY86 Projected Funding Level | FY86 Funds Received to Date | FY86 Funding Balance Needed |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| 10K | 110K | 100K | None |

*A large portion of the contractor charges for this month will
be reclassified to another case number. They were inadvertently
charged to this case number due to a change order in a purchase
order.

A-1165, Task IV
 1183.040
 January 1986

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) | 1.2 | 1.3 |
| II. Direct Loaded Labor Costs | 16.0 | 17.0 |
| 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 | 0.0 | 1.0 |
| TOTAL COSTS | 16.0 | 21.0 |

Other = rounding approximation
 by computer

III. Funding Status

| Prior FY Carryover | FY86 Projected Funding Level | FY86 Funds Received to Date | FY86 Funding Balance Needed |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| 48K | 98K | 50K | None |