

Sandia National Laboratories

Albuquerque, New Mexico 87185

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January 15, 1986

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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 December 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
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 ✓
KPDR ✓ (B, N, S)

Distribution:
N Coleman
John-ticket
N Still

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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: \$215K

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 DECEMBER 1985

No activity. Costs reported reflect previous activity on this
project.

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 DECEMBER 1985

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: ?

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 DECEMBER 1985

Portions of one chapter have not yet been submitted, and the experts' revisions to other chapters were not complete before Sandia's Christmas holiday. We will complete the draft probability report and submit it as soon as possible.

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: ?

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 DECEMBER

We began work on the NUREG report on meeting the EPA Standard.

A-1165, Task I
 1183.010
 December 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)	0.1	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	0.0	20.0
Travel	2.0	2.0
Other	<u>1.0</u>	<u>0.0</u>
TOTAL COSTS	3.0	29.0

Other = rounding approximation
 by computer

III. Funding Status

Prior FY Carryover	FY86 Projected Funding Level	FY86 Funds Received to Date	FY86 Funding Balance Needed
65K	215K	None	150K

A-1165, Task II
 1183.020
 December 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	0.0	0.0
TOTAL COSTS	0.0	0.0

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	None	100K

A-1165, Task III
 1183.030
 December 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)	1.2	3.1
II. Direct Loaded Labor Costs	10.0	33.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts*	17.0	33.0
Travel	1.0	1.0
Other	0.0	0.0
TOTAL COSTS	28.0	67.0

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY86 Projected Funding Level	FY86 Funds Received to Date	FY86 Funding Balance Needed
70K	To be determined	None	To be determined

*Charges were received for King, Cornell, Holland, and Mann.

A-1165, Task IV
 1183.040
 December 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	0.0
Travel	0.0	2.0
Other	0.0	1.0
TOTAL COSTS	0.0	4.0

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	To be determined	None	To be determined

A-1165

TOTAL FOR 1183.010, 1183.020, 1183.030, 1183.040

December 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	3.9
II. Direct Loaded Labor Costs	10.0	42.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	17.0	52.0
Travel	3.0	5.0
Other	<u>1.0</u>	<u>1.0</u>
TOTAL COSTS	31.0	100.0

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	To be determined	None	To be determined