

Sandia National Laboratories

Albuquerque, New Mexico 87185

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WM Project 10, 11, 16
Docket No. _____

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Ms. Leslie A. Peeters
Repository Projects Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Silver Spring, MD 20910

Distribution:

Peeters
Still
(Return to WM, 623-SS)

Jean-ticket

Dear Ms. Peeters:

Enclosed is the summary of activities during February 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, 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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A-1165 PDR

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

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

NMSS PROGRAM MANAGER: L. A. Peeters 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 FEBRUARY 1985

We have begun the review and summary of two Sandia documents on far-field performance assessment methodology. In addition, we are examining the Aerospace SOW's.

We have begun the preparation of an overview document that will describe the overall licensing assessment methodology (LAM) and its relationship to the licensing issues. The overview document will also 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.

On February 25, a telephone conversation was held with Ken Stevens and Loren Zaremlie of Aerospace Corp., Washington, D.C. It was agreed that documents concerning the SWIFT II code would be sent to them so that they might become familiar with the type and format of input data required for this code. The following documents on SWIFT II were sent to them, and also Kien Chang of the NRC, on February 26:

- Data Input Guide
- Theory and Implementation
- Self-Teaching Curricula

A copy of the NWFT/DVM User's Manual was also sent to Aerospace and Kien Chang on this date.

The possibility of sending a copy (tape) of the SWIFT SSP code was also discussed with Aerospace. This version of SWIFT considers only steady-state fluid flow and transient trace-species migrations and is used in order to achieve computer efficiency. At this time, however, a copy of the code has not been sent as we are checking into the appropriateness of its use in performance assessment work.

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: L. A. Peeters 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 FEBRUARY 1985

We continued to assist in the preparation of EA review comments. P. A. Davis visited NRC from February 6 - February 11 to prepare final detailed and major comments.

Major comments for the performance assessment section were formulated for all but the Nevada Site EA. Detailed comments for Richton, Vacherie, and Cypress Dome and the basalt site were written, reviewed, and re-written.

PROGRAM: Probability Techniques

FIN#: A-1165
Task III

CONTRACTOR: Sandia National Laboratories

BUDGET PERIOD: 10/84-
9/85

NMSS PROGRAM MANAGER: L. A. Peeters

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 FEBRUARY 1985

We have prepared draft SOW's and sole-source justification memos for obtaining the services of the expert panelists. We are now waiting for NRC guidance on the selection of expert panelists.

We also prepared a letter explaining the apparent discrepancy between the estimated charges in the monthly reports and the vouchers for FY84, as requested by L. A. Peeters.

PROGRAM: Short-Term Technical Assistance FIN#: A-1165
Task IV

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

NMSS PROGRAM MANAGER: L. A. Peeters 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 FEBRUARY 1985

No activity.

A-1165, Task I
 1183.010
 February 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)	1.2	3.2
II. Direct Loaded Labor Costs	13.0	32.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	1.0	4.0
Travel	0.0	0.0
Other	<u>-1.0</u>	<u>1.0</u>
TOTAL COSTS	13.0	37.0

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 III
 1183.030
 February 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)	0.1	1.1
II. Direct Loaded Labor Costs	1.0	12.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	0.0	0.0
Travel	0.0	1.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	1.0	13.0

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, Task IV
 1183.040
 February 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)	0.0	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

TOTAL FOR 1183.010, 1183.020, 1183.030, and 1183.040

February 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)	2.3	8.5
II. Direct Loaded Labor Costs	25.3	90.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts	2.0	9.0
Travel	4.0	5.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	29.0	105.0

Other = rounding approximation by computer

III. Funding Status

Prior FY Carryover	FY85 Projected Funding Level	FY85 Funds Received to Date	FY85 Funding Balance Needed
88K	488K	400K	None