

Sandia National Laboratories

Albuquerque, New Mexico 87185

March 15, 1986

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

Dear Ms. Wastler:

Enclosed is the summary of activities during February 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.

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
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Division of Waste Management
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Division of Waste Management
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Enrico Conti, Branch Chief
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PDR WMRES EXISANL
A-1165 PDR

WM-RES
WM Record File
(A1165)
SNE

WM Project 10, 11, 16
Docket No. _____

PDR ✓
LPDR ✓ (B.N.S.)

Distribution:
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(Return to WM, 623-SS)

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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: S. Wastler 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 FEBRUARY 1986

At the request of A. Elzeftawy, R. M. Cranwell reviewed the
report "Application of Geostatistics to Nevada Nuclear Waste
Site Characterization" by Y. Kim. Review Comments will be
submitted in early March.

PROGRAM: Probability Techniques

FIN#: A-1165
Task III

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

NMSS PROGRAM MANAGER: S. Wastler BUDGET AMOUNT: \$133K

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 1986

Work on this task resumed on February 26. The drafts of five chapters of the probability report are complete. We foresee no difficulty in submitting the complete draft (minus the two chapters by Cornell and Holland) on March 30.

In anticipation of extended funding for this Task during FY86, NRC requested three additional experts (Cornell, Holland, and Wright) and a trip to Washington, D.C. by all the experts during FY85. For this reason, this Task quickly became underfunded. R. L. Hunter and Seth Coplan discussed the funding situation on March 10, 1986, and agreed to reallocate all Task 4 carryovers from FY85 to FY86 to Task 3. This month's accounting estimates reflect this change in allocation.

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

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

NMSS PROGRAM MANAGER: S. Wastler 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 provide general technical assistance on waste-management matters on the request of the NMSS PM.

ACTIVITIES DURING FEBRUARY 1986

We submitted the final, camera-ready copy of the report "Assessing Compliance with the EPA High-Level Waste Standard: An Overview," SAND86-0121, NUREG/CR-4510, on February 25.

A-1165, Task I
1183.010
February 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	0.0	23.0
Travel	0.0	2.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	0.0	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

A-1165, Task II
 1183.020
 February 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	4.0	14.0
Travel	0.0	0.0
Other	<u>1.0</u>	<u>0.0</u>
TOTAL COSTS	5.0	15.0

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-1165, Task III
 1183.030
 February 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)	0.2	3.7
II. Direct Loaded Labor Costs	2.0	40.0
Materials and Services	0.0	0.0
ADP Support (computer)	0.0	0.0
Subcontracts*	16.0	51.0
Travel	0.0	1.0
Other	<u>0.0</u>	<u>0.0</u>
TOTAL COSTS	18.0	92.0

Other = rounding approximation
 by computer

III. Funding Status

Prior FY Carryover	FY86 Projected Funding Level	FY86 Funds Received to Date	FY86 Funding Balance Needed
133K	133K	None	None

*Charges were received for Holland, Cornell, Harbaugh, and Wright.

A-1165, Task IV
1183.040
February 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)	1.3	2.6
II. Direct Loaded Labor Costs	15.0	32.0
Materials and Services	1.0	1.0
ADP Support (computer)	0.0	0.0
Subcontracts	0.0	1.0
Travel	1.0	3.0
Other	0.0	1.0
TOTAL COSTS	17.0	38.0

Other = rounding approximation
by computer

III. Funding Status

Prior FY Carryover	FY86 Projected Funding Level	FY86 Funds Received to Date	FY86 Funding Balance Needed
-0-	50K	50K	None

A-1165

TOTAL FOR 1183.010, 1183.020, 1183.030, 1183.040

February 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)	1.5	8.0
II. Direct Loaded Labor Costs	17.0	80.0
Materials and Services	1.0	1.0
ADP Support (computer)	0.0	0.0
Subcontracts	20.0	89.0
Travel	1.0	6.0
Other	<u>1.0</u>	<u>1.0</u>
TOTAL COSTS	40.0	177.0

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