

Sandia National Laboratories

Albuquerque, New Mexico 87185

November 15, 1987

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

Dear Dr. Galson:

Enclosed is the monthly report for October 1987 for FIN A1165. If you have any questions or comments, please feel free to contact me at (FTS) 844-8368, E. J. Bonano at (FTS)844-5303, or P. A. Davis at (FTS)846-5421.

Sincerely,

Robert M. Cranwell

Robert M. Cranwell, Supervisor
Waste Management Systems
Division 6416

RMC:6416

Enclosure

Copy to:

Office of the Director, NMSS
Attn: Program Support
Robert Browning, Director
Division of Waste Management
Seth Coplan
Division of Waste Management
John Randall
Division of Engineering Safety
6410 N. R. Ortiz
6416 R. M. Cranwell
6416 E. J. Bonano
6416 P. A. Davis

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WM Project: WM-10, 11, 16
PDR w/encl
(Return to WM, 623-SS)

WM Record File: A1165
LPDR w/encl

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A-1165 PDR

PROGRAM: Licensing-Methodology Assistance

FIN A1165
Task I

CONTRACTOR: Sandia National
Laboratories

BUDGET PERIOD: 10/87 -
9/88

NMSS PROGRAM MANAGER: D. Galson

BUDGET AMOUNT: \$368K

CONTRACT PROGRAM MANAGER: R. M. Cranwell

FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: E. J. Bonano
P. A. Davis

FTS PHONE: 844-5303
FTS PHONE: 846-5421

PROJECT OBJECTIVE

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

ACTIVITIES DURING OCTOBER 1987

No activity.

PROGRAM: Monitor/Review Aspects of DOE and
Other National and International
Waste Management Programs

FIN A1165
Task II

CONTRACTOR: Sandia National
Laboratories

BUDGET PERIOD: 10/87 -
9/88

NMSS PROGRAM MANAGER: D. Galson

BUDGET AMOUNT: \$110K

CONTRACT PROGRAM MANAGER: R. M. Cranwell

FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: E. J. Bonano
P. A. Davis

FTS PHONE: 844-5303

FTS PHONE: 846-5421

PROJECT OBJECTIVE

To monitor and review the performance-assessment aspects of DOE and other national and international management programs.

ACTIVITIES DURING OCTOBER 1987

P. Davis, E. Bonano and R. Cranwell attended a meeting at DOE Headquarters in Washington on Performance Allocation and Issues Resolution Strategy. This meeting took place October 8 & 9.

PROGRAM: Probability Techniques

FIN A1165
Task III

CONTRACTOR: Sandia National
Laboratories

BUDGET PERIOD: 10/87 -
9/88

NMSS PROGRAM MANAGER: D. Galson

BUDGET AMOUNT: \$320K

CONTRACT PROGRAM MANAGER: R. M. Cranwell

FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: E. J. Bonano
P. A. Davis

FTS PHONE: 844-5303
FTS PHONE: 846-5421

PROJECT OBJECTIVE

To identify techniques for assigning probabilities to geologic processes and events.

ACTIVITIES DURING OCTOBER 1987

Several meetings were held involving P. Davis, E. Bonano, and R. Cranwell regarding the response of comments by NRC staff on the report on probability techniques. Some of authors were contacted and the ones approached so far have agreed to examine the specific comments received in their respective chapters. Some responses to comments were received. The principal investigators are examining the responses to insure that all comments have been adequately addressed.

PROGRAM: Uncertainty Analysis

FIN A1165
Task IV

CONTRACTOR: Sandia National
Laboratories

BUDGET PERIOD: 10/87 -
9/88

NMSS PROGRAM MANAGER: D. Galson

BUDGET AMOUNT: \$300K

CONTRACT PROGRAM MANAGER: R. M. Cranwell

FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: E. J. Bonano
P. A. Davis

FTS PHONE: 844-5303
FTS PJONE: 846-5421

PROJECT OBJECTIVE

To identify, analyze, and recommend generic methodologies for treating uncertainties associated with performance assessment of HLW repositories.

ACTIVITIES DURING OCTOBER 1987

No Activity.

PROGRAM: Short-Term Technical Assistance

FIN A1165
Task V

CONTRACTOR: Sandia National
Laboratories

BUDGET PERIOD: 10/87 -
9/88

NMSS PROGRAM MANAGER: D. Galson

BUDGET AMOUNT: \$69K

CONTRACT PROGRAM MANAGER: R. M. Cranwell

FTS PHONE: 844-8368

PRINCIPAL INVESTIGATORS: E. J. Bonano
P. A. Davis

FTS PHONE: 844-5303
FTS PHONE: 846-5421

PROJECT OBJECTIVE

To provide general technical assistance on waste-management matters on the request of the NMSS PM.

ACTIVITIES DURING OCTOBER 1987

E. Bonano, P. Davis, R. Cranwell, K. Wahi, and R. Guzowski worked on the review plans for the SCPs. This was the major effort under FIN A1165 during October. The work included a trip by these individuals to Silver Spring on October 26-30.

FIN A1165
 Total for Case 1183.000
 October 1987

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)	2.2 -----	2.2 -----
II. Direct Loaded Labor Costs	27	27
Materials and Services	2	2
ADP Support (computer)	0	0
Subcontracts	18	18
Travel	1	1
G&A	5	5
Other (computer roundoff)	-2	-2
	-----	-----
TOTAL COSTS	51	51

III. Funding Status

Prior FY Carryover -----	FY 88 Projected Funding Level -----	FY 88 Funds Received to Date -----	FY 88 Funding Balance Needed -----
\$267K	\$1167K	None	\$900K

FIN A1165, Task I - Licensing Methodology Assistance
 Subcase 1183.010
 October 1987

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 ---	0.4 ---
II. Direct Loaded Labor Costs	5	5
Materials and Services	2	2
ADP Support (computer)	0	0
Subcontracts	9	9
Travel	0	0
G&A	1	1
Other (computer roundoff)	-1 ---	-1 ---
TOTAL COSTS	16*	16

III. Funding Status

Prior FY Carryover -----	FY 88 Projected Funding Level -----	FY 88 Funds Received to Date -----	FY 88 Funding Balance Needed -----
\$68K	\$368K	None	\$300K

* Costs assigned to this task by mistake. Costs will be reassigned and correction should show in report for November, 1987.

FIN A1165, Task II - Review of DOE and International Programs
 Subcase 1183.020
 October 1987

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY
 SANDIA'S ACCOUNTING DEPARTMENT.

	<u>Current Month</u>	<u>Year -to- Date</u>
I. Direct Manpower (man-months of charged effort)	1.3 —	1.3 —
II. Direct Loaded Labor Costs	17	17
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	1	1
Travel	1	1
G&A	2	2
Other (computer roundoff)	-1 —	-1 —
TOTAL COSTS	20	20

III. Funding Status

<u>Prior FY Carryover</u>	<u>FY 88 Projected Funding Level</u>	<u>FY 88 Funds Received to Date</u>	<u>FY 88 Funding Balance Needed</u>
\$60K	\$110K	None	\$50K

FIN A1165, Task III - Probability Techniques
 Subcase 1183.030
 October 1987

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	<u>Current Month</u>	<u>Year -to- Date</u>
I. Direct Manpower (man-months of charged effort)	0.4	0.4
II. Direct Loaded Labor Costs	4	4
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	2	2
Travel	0	0
G&A	1	0
Other (computer roundoff)	0	0
	-----	-----
TOTAL COSTS	7	7

III. Funding Status

<u>Prior FY Carryover</u>	<u>FY 88 Projected Funding Level</u>	<u>FY 88 Funds Received to Date</u>	<u>FY 88 Funding Balance Needed</u>
\$120K	\$320K	None	\$200K

FIN A1165, Task IV - Uncertainty Analysis
 Subcase 1183.050
 October 1987

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	<u>Current Month</u>	<u>Year -to- Date</u>
I. Direct Manpower (man-months of charged effort)	0.0	0.0
II. Direct Loaded Labor Costs	0	0
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	0	0
Travel	0	0
G&A	0	0
Other (computer roundoff)	0	0
TOTAL COSTS	<u>0</u>	<u>0</u>

III. Funding Status

<u>Prior FY Carryover</u>	<u>FY 88 Projected Funding Level</u>	<u>FY 88 Funds Received to Date</u>	<u>FY 88 Funding Balance Needed</u>
None	\$300K	None	\$300K

Note: This is a new task; therefore, there was no carryover from FY 88.

FIN A1165, Task V - Short-Term Technical Assistance
 Subcase 1183.040
 October 1987

THIS IS AN ESTIMATE ONLY AND MAY NOT MATCH THE INVOICES SENT TO NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	<u>Current Month</u>	<u>Year -to- Date</u>
I. Direct Manpower (man-months of charged effort)	0.1	0.1
II. Direct Loaded Labor Costs	1	1
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	6	6
Travel	0	0
G&A	1	1
Other (computer roundoff)	0	0
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TOTAL COSTS	8	8

III. Funding Status

<u>Prior FY Carryover</u>	<u>FY 88 Projected Funding Level</u>	<u>FY 88 Funds Received to Date</u>	<u>FY 88 Funding Balance Needed</u>
\$19K	\$69K	None	\$50K

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Wm-RES

WM Record File

AT165

SNL

WM Project 10, 11, 16

Docket No. _____

PDR

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Distribution:

DGalson

PBrooks

SCoplan

(WM, 623-SS)