

FIN A1165
 Total for Case 1183.000
 May 1990

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 -----	2.8 -----
II. Direct Loaded Labor Costs	0	26
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	0	21
Travel	0	1
General and Administrative	0	5
Other (computer round-off)	0	0
TOTAL COSTS	0 -----	53 -----

III. Funding Status

Prior FY Carryover -----	FY 90 Projected Funding Level -----	FY 90 Funds Received to Date -----	FY 90 Funding Balance Needed -----
\$57K	\$57K	\$0K	None

FIN A1165, Task I - Licensing Methodology Assistance
 Subcase 1183.010
 May 1990

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 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	4
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	-1	1
Travel	0	0
General and Administrative	0	1
Other (computer roundoff)	0	0
TOTAL COSTS	-1 ---	6 ---

III. Funding Status

Prior FY Carryover -----	FY 90 Projected Funding Level -----	FY 90 Funds Received to Date -----	FY 90 Funding Balance Needed -----
\$1K	\$1K	None	None

FIN A1165, Task II - Identification and Analysis of Uncertainties

Subcase 1183.020

May 1990

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	Current Month -----	Year -to- Date ----
I. Direct Manpower (man-months of charged effort)	0 ---	1.3 ---
II. Direct Loaded Labor Costs	0	15
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	0	-1
Travel	0	0
General and Administrative	0	1
Other (computer round-off)	1	0
TOTAL COSTS	1 ---	15 ---

III. Funding Status

Prior FY Carryover -----	FY 90 Projected Funding Level -----	FY 90 Funds Received to Date -----	FY 90 Funding Balance Needed -----
\$37K	\$37K	None	None

FIN A1165, Task III - Probability Techniques
 Subcase 1183.030
 May 1990

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	Current Month -----	Year -to- Date -----
I. Direct Manpower (man-months of charged effort)	0.0 ---	0.9 ---
II. Direct Loaded Labor Costs	0	7
Materials and Services	0	0
ADP Support (computer)	0	0
Subcontracts	0	21
Travel	0	1
General and Administrative	0	3
Other (computer round-off)	0	0
TOTAL COSTS	0 ---	32 ---

III. Funding Status

Prior FY Carryover -----	FY 90 Projected Funding Level -----	FY 90 Funds Received to Date -----	FY 90 Funding Balance Needed -----
\$16K	\$16K	None	None

FIN A1165, Task VI - Short Term Technical Assistance
 Subcase 1183.060
 May 1990

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 NRC BY SANDIA'S ACCOUNTING DEPARTMENT.

	Current Month -----	Year -to- Date -----
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
General and Administrative	0	0
Other (computer round-off)	0	0
TOTAL COSTS	----- 0	----- 0

III. Funding Status

Prior FY Carryover -----	FY 90 Projected Funding Level -----	FY 90 Funds Received to Date -----	FY 90 Funding Balance Needed -----
\$3K	\$3K	None	None

Deliverables and Due Dates
FIN A1165

Task 1

Subtask 1.1 - Components of an Overall Performance Assessment Methodology

Submitted - 1/31/90 Status - Completed

**Subtask 1.3e - Technical Basis for Review of HLW Modeling Programs
(Includes Subtasks 1.3b, 1.3c, and 1.3d)**

Submitted - 2/8/90 Status - Completed

Task 2

Subtask 2.1 - Recommended Techniques for Assessing Compliance with the EPA's HLW Repository Containment Requirement

Submitted - 1/16/90 Key Individuals - E. Bonano, K. Wahi

Estimated Cost - \$1K Status - Proofreading and preparation of final.

Subtask 2.2/2.6c - Uncertainties Associated with Performance Assessment of High-Level Radioactive Waste Repositories: A Summary Report

Submitted - 4/2/90 Key Individuals - E. Bonano and P. Davis

Estimated Cost - \$14K Status - Waiting for NRC comments.

**Subtask 2.3 - Elicitation and Use of Expert Judgment in HLW PA
(Includes a portion of subtask 2.6e)**

Submitted - 3/23/90 Status - Completed

*** - All costs are as of January 1, 1990**

**** - Lead individual for a given report is in bold letters**

Subtask 2.4a - Treating Uncertainties in PA Models

Submitted - 2/7/90

Key Individuals - P. Davis,
M. Goodrich

Estimated Cost - \$2K

Status - Waiting for NRC comments

Subtask 2.5a - Scenario Development Methodology

Submitted - 3/26/90

Status - Completed

Subtask 2.6a - Methodologies for Data and Parameter Uncertainty

Submitted - 2/15/90

Status - Completed

**Subtask 2.6d - Comparison of Uncertainty and Sensitivity Analysis
Techniques (Includes Subtask 2.6e)**

Submitted - 2/27/90

Key Individuals - P. Davis and
T. Zimmerman

Estimated Cost - \$2K

Status - Addressing NRC comments

Task 3

**Subtask 3.2 - Estimating Probabilities for Initiating Events and
Processes**

Submitted - 2/21/90

Key Individuals - G. Apostolakis,
R. Bras, L. Price,
K. Wahi

Estimated Cost - \$3K

Status - Waiting for NRC comments

Task 6

Short Term Technical Assistance

Funds Remaining - \$3K

DELIVERABLES SUBMITTED DURING THE CURRENT REPORTING PERIOD

<u>SUBTASK NUMBER</u>	<u>DELIVERABLE TITLE</u>	<u>DATE</u>	<u>STATUS</u>
None			

SCHEDULE OF MILESTONES AND DELIVERABLES

<u>SUBTASK NUMBER</u>	<u>DELIVERABLE TITLE</u>	<u>DRAFT DUE</u>	<u>FINAL DUE</u>	<u>STATUS</u>
1.1	Components of an Overall Performance Assessment Methodology	Submitted Dec. 1, 1988	Submitted Jan. 31, 1990	Completed
1.3e	Technical Basis for NRC Review of HLW Repository Modeling	Submitted June 14, 1989	Submitted Feb. 8, 1990	Completed
2.1	Techniques for Assessing Compliance with the EPA's HLW Repository Containment Requirement	Submitted Jan. 16, 1990	No due date.	Preparation of final report.
2.2/2.6c	Uncertainties Associated with Performance Assessment of High-level Radioactive Waste Repositories: A Summary Report	Submitted April 2, 1990	No due date.	Waiting for NRC comments.
2.3	Elicitation and Use of Expert Judgment in Performance Assessments for HLW Repositories	Submitted July 26, 1990	Submitted Apr. 23, 1990	Completed.
2.4a	Guidelines for Judging the Validity of Models for Performance Assess- ment of HLW Repositories	Submitted Feb. 7, 1990	No due date.	Waiting for NRC comments.

2.5	Risk Methodology for Geologic Disposal of Radioactive Waste: Scenario Selection Procedure	Submitted June 27, 1989	Submitted Mar. 26, 1990	Completed.
2.6a	A Review of Techniques for Propagating Data and Parameter Uncertainty in High-Level Radioactive Waste Repository Performance Assessment Models	Submitted May 31, 1989	Submitted Feb. 15, 1990	Completed.
2.6d	A Comparison of Parameter Estimation and Sensitivity Analysis Techniques for Ground-Water Flow Models and Their Impact on the Uncertainty in Model Performance Predictions	Submitted Feb. 27, 1990	No due date.	Addressing NRC comments.
3.2	Techniques for Determining Probabilities of Events and Processes Affecting the Performance of Geologic Repositories: Volume II --Suggested Approaches	Submitted Feb. 21, 1990	No due date.	Waiting for NRC comments.