



Lawrence Livermore National Laboratory

NUCLEAR SYSTEMS SAFETY PROGRAM
RARE 85-014

January 25, 1985

Ms. Sarah M. Davis
Reliability and Risk Assessment Branch
Division of Safety Technology
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Monthly Management Letter #7
Month of November 1984
NRC FIN-A0801
Review of the Seabrook Probabilistic Risk Assessment

Dear Ms. Davis:

1. Project Description and Objective

The Office of Nuclear Reactor Regulation is conducting a probabilistic risk assessment (PRA) review program in which PRAs performed and submitted to the NRC by license applicants and licensees receive comprehensive review and evaluation. The program is the responsibility of the Reliability and Risk Assessment Branch (RRAB).

A PRA of the Seabrook Nuclear Power Plant (Seabrook PRA) has been submitted to the NRC by Public Service Company of New Hampshire, an operating license (OL) applicant. The review of this document, whose title is "Seabrook Station Probabilistic Safety Assessment," is being performed as one project in the larger NRC program.

The objective of this project is to perform an expeditious and cost effective review of those aspects of the Seabrook PRA leading to the estimates of the frequencies of each plant damage state and the associated uncertainty spread to determine the accuracy of these estimates. The review will cover methodology, assumptions, data, information sources, models, plant understanding, completeness of the analysis and other areas where inconsistencies may arise which could affect the quantitative or qualitative results.

2. Progress for Period

- a. Work continued at steady pace during the month.
- b. A. Garcia and G. Cummings (LLNL), and P. Amico (ART) attended a meeting with A. Thadani and S. Davis at the NRC offices in Bethesda on November 28, 1984.

3. Work to be Accomplished Next Month

- a. Work on the review will continue at a much higher rate in order to complete and deliver to NRC a draft report in the month of December.

8702200316 870211
PDR FOIA
SHOLLYB7-6 PDR

FOIA-87-006

13/36

January 25, 1985

4. List of Subcontractors and Consultantsa. Subcontractors

- (1) Applied Risk Technology Corporation (ARTECH); P. J. Amico
- (2) Jack R. Benjamin and Associates, Inc. (JBA); J. W. Reed, M. W. McCann, Jr.

b. Consultants

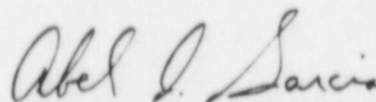
- (1) P. R. Davis

5. Concerns

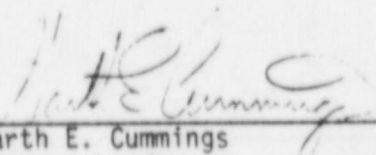
The concerns noted in previous monthly program reports have not been, and are not now expected to be fully resolved. The direction to be taken in the process of completing the draft report will be to do what we can with the information available to us, and to identify areas where the absence of information may be important to the results.

6. Other

Not Applicable



Abel A. Garcia
Principal Investigator



Garth E. Cummings
Program Leader
Nuclear Systems Safety Program

sr

Enclosures (2)

Distribution:NRC

R. Frahm, DST
J. Halvorsen, DST
F. Rowsome, DST
L. Solander, NRR
A. C. Thadani, DST

DOE

W. J. Gallagher

LLNL

G. E. Cummings
J. M. Johnson
C. A. Meier

ATTACHMENT A

ESTIMATED PROJECT FINANCIAL STATUS: November FY 1985

FIN A0801

Summary

COST ANALYSIS:*	November	Year to Date
I Direct Staff Effort:	2.3 FTE-Mo	2.4 FTE-Yr

II Direct Labor Costs	\$ 9.4K	\$ 21.5K
Materials & Services	0.0	0.0
ADP Support	0.0	0.0
Subcontracts	5.7	7.6
Travel Expenses	0.4	0.4
Indirect Labor Costs	9.3	21.8
Other (Recharges)	0.7	1.4
Other (FY84 Unbilled Costs)	0.0	0.0
General & Administrative	4.1	4.1

Total Costs	\$ 29.7K	\$ 57.0K
Liens	\$ 69.1K	

Total Costs + Liens		\$ 116.1K

Percentage of Available Funds		95.2%

III Funding Status:

Prior Year Carryover	FY 1985 Projected Funding Level	FY 1985 Funds Rec'd to Date	FY 1985 Funding Bal. Needed
\$121.9K	\$261.9K	\$ 0.0K	\$140.0K

*Note: These figures are for cost analysis only, and may differ slightly from final billing figures.

ATTACHMENT B

FEE RECOVERY COST STATUS

FIN: A0801

TITLE: Review of the Probabilistic Risk Assessment for the Seabrook
Nuclear Power Plant

PERIOD: November 1984

<u>Facility Name</u>	<u>Docket Number</u>	<u>Costs</u>	
		<u>Period</u>	<u>Cumulative</u>
Seabrook	50-443	\$29.7K	\$116K
Common Costs	50-900	\$ 0.0	0
Total Expenses		<u>\$29.7K</u>	<u>\$116K</u>