

BROOKHAVEN NATIONAL LABORATORY  
ASSOCIATED UNIVERSITIES, INC.

Upton, Long Island, New York 11973

(516) 282-2444  
FTS 666/

Department of Nuclear Energy

January 16, 1984

Dr. A. C. Thadani, Chief  
Reliability and Risk Assessment Branch  
Division of Safety Technology  
Office of Nuclear Reactor Regulation  
Mail Stop P-216  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Dr. Thadani:

Enclosed is the December monthly report for the activities sponsored by your Branch. Also included are the computerized budget summaries and the fee recovery cost status for each program requiring it. I would suggest that you and your staff review the reports to determine whether there are any discrepancies. If there are, please notify the principal investigator.

Note that the funds allocated for FIN A-3366 are spent and that the NRC program office was informed of this January 11, 1984 as required by revised Manual Chapter 1102, dated September 24, 1982. Please send the balance of expected funds so that the level of effort may continue without interruption.

The funds received for FIN A-3740 as shown on the financial status page, does not reflect the additional \$120,000 received in December.

The total amount of unbilled costs through December for FIN A-3366 is \$26,542, which will be billed to NRC when the expected funds are received.

We hope this meets with your approval. If there are any questions regarding format, distribution, or budget reporting, please contact Mr. A. J. Weiss, Administrative Technical Assistant, FTS 666-4473.

Sincerely yours,

*Walter Y. Kato*  
Walter Y. Kato  
Deputy Chairman

WYK/jw

Enclosures

cc: R. A. Bari, BNL  
F. Coffman, NRC  
R. Frahm, NRC  
B. L. Grenier, NRC  
R. E. Hall, BNL  
F. Rowsome, NRC  
J. Veillette, NRC  
A. J. Weiss, BNL  
NRC Technical Monitors  
BNL Technical Monitor

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BELAIR85-199 PDR

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Division of Safety Technology - NRR

December 1983

<u>FIN No.</u>	<u>Total Projected Project Cost (\$K)</u>	<u>Funds Obligated To Date (\$K)</u>	<u>Balance of Funds (\$K)</u>		
			<u>FY 1984</u>	<u>FY 1985</u>	<u>FY 1986</u>
A-3366	436	290	121	25	
A-3393	549	549	0		
A-3725	1000	650	350		
A-3726	70	70	0		
A-3728	330	230	90	10	
A-3729	45	40	5		
A-3740	270	170	100		
A-3758	405	0	375	30	

MONTHLY HIGHLIGHTS FOR DECEMBER 1983

"Review of the Probabilistic Risk Assessment for the  
Shoreham Nuclear Power Plant"

(FIN A-3740)

BNL Principal Investigator: I. A. Papazoglou (FTS 666-2435)  
NRC Program Manager: A. Thadani, Reliability and Risk Assessment  
Branch  
NRC Technical Monitor: Ed Chow, Reliability and Risk Assessment  
Branch

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1. Scope/Purpose

The purpose of this project is to review those aspects of the Shoreham PRA leading to the estimates of the frequencies of the accident sequences resulting in a "core vulnerable" state and to determine the accuracy of these estimates.

2. Schedule/Milestones

A letter of the findings will be submitted to NRC at the completion of each task according to the following schedule.

Task 1: Draft Report	4/15/84
Task 2: Questions to the Applicant	11/31/83
Task 3: Final Report	Two months after receiving final comments by NRC and licensee.

3. Progress to Date

A meeting was held between BNL, LILCO and LILCO's consultants to discuss questions that were initiated by BNL and submitted to the staff in early December. Qualitative review of the event tree analysis continued. Efforts to develop BNL revised event trees were initiated. The review of the transient initiation grouping and success criteria was completed.

4. Problems and Delays

None.

5. Next Reporting Period

The development of BNL revised event trees will continue. System success criteria and initiation grouping for ATWS events will be examined. The review of event trees for internal floods and their initiation frequencies will be initiated.

# FINANCIAL STATUS

DECEMBER 1985

ACCOUNT  
004197

FILE  
SHOREHAM PMA REVIEW

NRG FIN  
A-3740

SUPERVISOR : RM

PRINCIPAL INVESTIGATOR

PAPADOGLOU 1

	CURR MD EXP	YTD EXPENSE	% FUNDS REC'D
DIRECT SALARIES :	11,280.	55,294.	
TRAVEL EXPENSES :	0.	2,757.	
MATERIAL & SERVICES :	165.	637.	
SUBCONTRACTS :	0.	0.	
ADP SUPPORT :	98.	684.	
INDIRECT SALARIES :	1,400.	4,000.	
OVERHEAD :	5,486.	11,000.	
TOTAL :	18,429.	69,772.	81

FUNDS RECEIVED  
156,419.

# FEE RECOVERY COST STATUS

ID: A-3749

TITLE: SHOREHAM PRA REVIEW

KTOD: DECEMBER 1983

TASK/PLANT		\$ PERIOD	\$ TOTAL CUMULATIVE
A Shoreham	Docket 50-322	18,429.	63,718