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BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.

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FTS 666

Department of Nuclear Energy

February 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 January 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 February 15, 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.

There was an inadvertent overcharge of \$17 to FIN A-3393 in January, which will be credited to the program.

The total amount of unbilled costs through January for FIN A-3366 is \$26,612, 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
D. J. Corley, NRC
R. Frahm, 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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Division of Safety Technology - NRR


January 1984

<u>FAN 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-3725	1000	650	350		
A-3728	330	230	90	10	
A-3729	45	45	0		
A-3740	270	170	100		
A-3758	405	375	0	30	

MONTHLY HIGHLIGHTS FOR JANUARY 1984

"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  THIS COPY FOR

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 telephone conference call was established between BNL, NRC, LILCO, and LILCO's consultants to discuss the Q-1 questions on January 13. BNL received from LILCO a set of operating and emergency procedures. The development of the revised transient event trees was completed. The review of the LOCA event trees and the support system event trees continued. The review of internal flood event trees and initiating event frequencies was initiated. Success criteria review and initiator grouping for ATWS events were initiated.

4. Problems and Delays

None.

5. Next Reporting Period

All BNL revised event trees will be completed. Quantification of sequences using the core damage fault tree approach will be initiated. Review of internal flood will continue.