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T Speis

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V Zeoli, RM

D Dandois, RM

Z Rosztoczy

NRR Contract File

(B. Grenier)

FEB 29 1984

Mr. Gregory J. Ogeka, Chief
Administrative Branch
Brookhaven Area Office
Building 464
Upton, NY 11973

Dear Mr. Ogeka:

Subject: BNL Technical Assistance to the Division of Safety Technology,
NRR, NRC, "Review of Probabilistic Risk Assessment for the
Shoreham Nuclear Power Plant" (FIN A-3740)

The enclosed NRC Form 173, Standard Order for DOE Work, is hereby submitted
in accordance with Section III.B.2 of the DOE/NRC Memorandum of Understanding
dated February 24, 1978.

Funding authorization in the amount of \$50,000 to immediately begin work on
the subject project was transmitted to you on September 6, 1983, and \$120,000
was transmitted on December 6, 1983. The purpose of this letter is to
modify your proposal, dated October 4, 1983, and to request within 30 days a
revised NRC Form 189 without attachments reflecting these changes. Please
submit the NRC Form 189 to:

Ms. Jayne Veillette, Program Assistant
Division of Safety Technology, NRR
U.S. Nuclear Regulatory Commission
Washington, DC 20555

If you have any questions concerning the acceptance of this order, please
contact Ms. J. Veillette on FTS 492-7932.

Sincerely,

8507130445 850426
PDR FOIA
BELAIR85-199 PDR

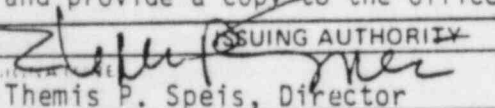
Themis P. Speis, Director
Division of Safety Technology
Office of Nuclear Reactor Regulation

Enclosures:

1. NRC Form 173
2. Modification to Proposal

AD/T: DST
MF: ml
2/8/84

OFFICE	RRAB: DST EChow	RRAB: DST ABuslik AS	RRAB: DST AThadani	AD/T: DST FRowsome	PA: DST JVeillette	NRR BGrenier	D: DST TSpeis
SURNAME	EChow	ABuslik	AThadani	FRowsome	JVeillette	BGrenier	TSpeis
DATE	2/8/84	2/8/84	2/8/84	2/9/84	2/10/84	2/15/84	2/29/84

NRC FORM 173 (5-79)		U.S. NUCLEAR REGULATORY COMMISSION		ORDER NUMBER 20-84-245	
STANDARD ORDER FOR DOE WORK				DATE FEB 29 1984	
ISSUED TO: (DOE Office) Brookhaven Area Office		ISSUED BY: (NRC Office) Office of Nuclear Reactor Regulation, DST		ACCOUNTING CITATION APPROPRIATION SYMBOL 31X0200.204 B&R NUMBER 20-19-40-41-5 FIN NUMBER A3740-4	
PERFORMING ORGANIZATION AND LOCATION Brookhaven National Laboratory Upton, New York				WORK PERIOD - THIS ORDER FIXED <input checked="" type="checkbox"/> ESTIMATED <input type="checkbox"/> FROM: 09/13/83 TO: 06/30/84	
FIN TITLE Review of PRA for the Shoreham Nuclear Power Plant					
OBLIGATION AVAILABILITY PROVIDED BY:					
A. THIS ORDER				\$ 0	
B. TOTAL OF ORDERS PLACED PRIOR TO THIS DATE WITH THE PERFORMING ORGANIZATION UNDER THE SAME "APPROPRIATION SYMBOL" AND THE FIRST FOUR DIGITS OF THE "B&R NUMBER" CITED ABOVE.				\$ 5,257,000	
C. TOTAL ORDERS TO DATE (TOTAL A & B)				\$ 5,257,000	
D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER.				\$ 120,000	
FINANCIAL FLEXIBILITY: <input checked="" type="checkbox"/> FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED. <input type="checkbox"/> FUNDS MAY BE REPROGRAMMED NOT TO EXCEED $\pm 10\%$ OF FIN LEVEL UP TO \$50K. LINE C CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.					
STANDARD TERMS AND CONDITIONS PROVIDED DOE ARE CONSIDERED PART OF THIS ORDER UNLESS OTHERWISE NOTED.					
ATTACHMENTS: THE FOLLOWING ATTACHMENTS ARE HEREBY MADE A PART OF THIS ORDER: <input checked="" type="checkbox"/> STATEMENT OF WORK (Modification) <input type="checkbox"/> ADDITIONAL TERMS AND CONDITIONS <input type="checkbox"/> OTHER			SECURITY: <input checked="" type="checkbox"/> WORK ON THIS ORDER IS NOT CLASSIFIED. <input type="checkbox"/> WORK ON THIS ORDER INVOLVES CLASSIFIED INFORMATION. NRC FORM 187 IS ATTACHED.		
REMARKS (Reference the proposal by number and date, and indicate if the attached statement of work modifies the DOE proposal): This order provides a modification to the BNL proposal dated October 4, 1983 and requests that BNL submit a revised proposal reflecting the attached modification within 30 days to J. Veillette, NRR/DST, with a copy provided to D. Corley, NRR/PPAS. After acceptance, please send to the NRC Office of Resource Management, ATTN: D. Dandois, and provide a copy to the Office of Nuclear Reactor Regulation, ATTN: D. Corley.					
ISSUING AUTHORITY  Themis P. Speis, Director			ACCEPTING ORGANIZATION SIGNATURE TITLE Division of Safety Technology DATE		

Modification to Fin A-3740 Proposal

1. Add to Task 1:

a.16 Internal flooding caused by maintenance error

Estimated Level of Effort: 1.3 staff months

Estimated Completion Date: 3/15/84

Due to possible flooding caused by maintenance error, a separate draft report regarding flood protection is requested in addition to the draft report which addresses all other internal events. Particular emphasis should be placed on the consideration of human intervention time, ability to terminate a flood, timing of reactor isolation, and ability to override the signal including effects of level 8 trip.

2. Add to Reporting Requirements for Task 1:

Tasks	a.1 thru a.15	Draft Report	3/15/84
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Task	a.16	Draft Report on internal flooding caused by maintenance error	3/15/84
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