

NRC FORM 173 (5-79) <div style="text-align: center;">STANDARD ORDER FOR DOE WORK</div>		U.S. NUCLEAR REGULATORY COMMISSION ORDER NUMBER 20-83-541 DATE JUN 29 1983					
ISSUED TO: (DOE Office) Brookhaven Area Office	ISSUED BY: (NRC Office) Office of Nuclear Reactor Regulation, DE	ACCOUNTING CITATION: APPROPRIATION SYMBOL 31X0200.203 B&R NUMBER 20-19-50-53-2 FIN NUMBER A3721-3					
PERFORMING ORGANIZATION AND LOCATION Brookhaven National Laboratory Upton, New York		WORK PERIOD - THIS ORDER <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">FIXED <input checked="" type="checkbox"/></td> <td style="width: 50%;">ESTIMATED <input type="checkbox"/></td> </tr> <tr> <td>FROM: 07/06/83</td> <td>TO: 04/01/85</td> </tr> </table>		FIXED <input checked="" type="checkbox"/>	ESTIMATED <input type="checkbox"/>	FROM: 07/06/83	TO: 04/01/85
FIXED <input checked="" type="checkbox"/>	ESTIMATED <input type="checkbox"/>						
FROM: 07/06/83	TO: 04/01/85						
FIN TITLE Probabilistic Response and Response Spectra for Category I Structures							
OBLIGATION AVAILABILITY PROVIDED BY:							
A. THIS ORDER		\$ 50,000					
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.		\$ 5,663,045					
C. TOTAL ORDERS TO DATE		(TOTAL A & B) \$ 5,713,045					
D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER.		\$ 50,000					
FINANCIAL FLEXIBILITY: <input type="checkbox"/> FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED. <input checked="" 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. 1/ SEE BELOW							
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 (Modifications) <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 accepts the BNL proposal dated March 2, 1983 as modified in the attached modification, changes the period of performance as noted above, provides incremental funds for initiation of work, and requests a revised proposal be submitted within 30 days to E. Pentecost, DE/NRR with a copy provided to B. L. Grenier, PPAS/NRR. 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: C. Paugh.							
ISSUING AUTHORITY SIGNATURE <i>[Signature]</i> Richard H. Vollmer, Director 6/29/83 TITLE Division of Engineering		ACCEPTING ORGANIZATION SIGNATURE TITLE DATE					

NRC FORM 173 (5-79) 1/ Reprogramming limited to changes on FINs within the same B&R Number and the same Appropriation Symbol. In order for this reallocation to be effective, this office must be notified within 5 days so that an appropriate NRC Form 173 can be issued and counter-signed to complete the action prior to receipt of any bills.

8307180445 XA

ENCLOSURE 2

MODIFICATION TO THE STATEMENT OF WORK

Title: Probabilistic Response and Response Spectra for Category I Structures

FIN: A3721

B & R No.: 20-19-50-53-2

Project Manager: Nilesh C. Chokshi (FTS 492-8967)

Modify the level of effort for the following task:

Task 1

Subtask a. Level of effort on this task should be reduced by 50% as knowledge gained from some recent efforts can be applied to this task. This has been discussed with and agreed to by Morris Reich of BNL.

Modify/add the following task:

Task 2

Subtask e RAS programs/users manuals will be updated in conformance with ANSI standard N413-1974.

Subtask e and f "All code development and submission of software to the NRC under this agreement shall conform to the attached Scientific Software Development and Submittal Requirements for NRC Contractors."

(Note: The above two modifications provide additional guidelines for documentation and increase in the level of effort is not anticipated.)

Subtask g Modify limit states for concrete containment and shear wall structures beyond yield limits for use in PRA analysis.

Level of Effort and Period of Performance

The estimated level of effort for the entire project is 1.8 staff years with this modification and no change to the period of performance.

Reporting Requirements

No change.

Meetings and Travel

No change.

NRC Furnished Materials

No change.

NRR TECHNICAL ASSISTANCE PROGRAM

PPAS ACTION SUMMARY SHEET

FY84
DE 1 A3721 - 70
DU S3 NO328 + 7C

DATE RECEIVED BY PPAS:

6/20/83

FIN(S): A3721

TYPE OF ACTION:

MOD WORK
INC FUND

FY83

DE
PPAS

redirect

A3721 DU=S3 +SOPE
NO010 DU=S3 -50

PPAS REMARKS, COMMENTS, IDENTIFICATION OF DEFICIENCIES:

DU=S3

DOCUMENT(S) MISSING FROM FILE

DATE ACTION COMPLETED BY PPAS:

06/24/83

TPV-190