

NRC FORM 173 (5-79)		U.S. NUCLEAR REGULATORY COMMISSION		ORDER NUMBER 20-83-400
STANDARD ORDER FOR DOE WORK				DATE APR 13 1983
				ISSUED TO: (DOE Office) Brookhaven Area Office
PERFORMING ORGANIZATION AND LOCATION Brookhaven National Laboratory Upton, New York				ACCOUNTING CITATION APPROPRIATION SYMBOL 31X0200,203
FIN TITLE Safety Evaluation of Core-Melt Accidents: CESSAR-FDA, Westinghouse Standard Plant-FDA				B&R NUMBER 20-19-40-41-3
OBLIGATION AVAILABILITY PROVIDED BY:				FIN NUMBER A3705-3
A. THIS ORDER				WORK PERIOD - THIS ORDER
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.				FIXED <input checked="" type="checkbox"/> ESTIMATED <input type="checkbox"/>
C. TOTAL ORDERS TO DATE (TOTAL A & B)				FROM: 04/25/83 TO: 08/31/85
D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER.				
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 ± 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:			SECURITY:	
<input type="checkbox"/> STATEMENT OF WORK <input type="checkbox"/> ADDITIONAL TERMS AND CONDITIONS <input type="checkbox"/> OTHER			<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):				
<p>This order provides incremental funds for initiation of work in accordance with the BNL proposal dated February 28, 1983. Additional FY 1983 incremental funds will be provided commensurate with the progress of work on this project.</p> <p>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.</p>				
ISSUING AUTHORITY			ACCEPTING ORGANIZATION	
SIGNATURE Roger J. Mattson, Director <i>[Signature]</i>			SIGNATURE	
TITLE Division of Systems Integration 4/13/83			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.

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PDR FOIA
SHOLLY84-335 PDR

OFFICE OF NUCLEAR REACTOR REGULATION
PROJECT IDENTIFICATION SUMMARY (PIDS)

~~Revised 7/20/83~~
Revised 7/20/83

NOTE: Title Change

TITLE: ~~Review of PRAs for Standard Plant Designs~~
Safety Evaluation of Core-melt Accidents: CESSAR-FDA
FIN: A3705
Westinghouse Sta. Plant - FDA
CONTRACT NUMBER (Non-DOE): B&R NUMBER: 20-19-40-41-3
NRR OPERATING PLAN INDEX NO.:

DIVISION: DSI BRANCH:RSB PROJECT MANAGER: J. Meyer
CONTRACTOR: BNL CONTRACT METHOD: DOE Work Order
CITY, STATE (Non-DOE): SMALL BUSINESS/MINORITY CONTRACT (Non-DOE):
SUB-CONTRACTOR(S): YES / / NO / / AMOUNT \$

PROJECTED PERIOD OF PERFORMANCE START: ~~7/1/83~~ (est) END: 9/30/86
7/1/83 *86*

PROJECTED FINANCIAL DATA (000's)

PROJECT		FY 1983					FY 84	FY 85	FY 86
TOTAL VALUE	TOTAL OBLIG	TOTAL COSTED	CARRY OVER	FY 83 BUDG		BUDG	BUDG	BUDG	
950				400	50	175 250	200 350	240 300	

APPLICATION (RELATE THE PROJECT TO A SPECIFIC PLANNED ACCOMPLISHMENT)
Review of PRA studies for:
1. CESSAR System 80 FDA review
2. Westinghouse Standard Plant FDA review

WORK REQUIREMENTS (DESCRIBE WHAT IS TO BE PERFORMED)

The following analyses and assessments will be performed by this project: core-melt accident progressions with emphasis on containment loadings (pressure and temperature) and containment failure characteristic; evolution and release of radiological source term during core-melt accidents from fuel, primary system, and containment system; radiological consequences to the public from core-melt accidents; and safety benefit from features to mitigate the consequences of core melt accidents. To support these analyses, the contractor will be required to maintain and modify the MARCH, CORRAL, MATADOR and CRAC Codes as required in light of the current RES MARCH-2 and MELCOR development program and assimilate results of phenomenological studies (RES, IDCOR, foreign, and DOE) and engineering research programs. In addition, an overall integrated assessment which considers all of these factors will be prepared for design. Products: miscellaneous letter reports for input to SERs, input to hearing testimony, if required.

Major Product: (2) NUREG/CRs - FY 1985.

MODIFICATIONS (DESCRIBE MAJOR CHANGES TO THE PROJECT)

Increased funding in FY-84+85 is required based on experience with current reviews of other standard plants. Because of changing methodologies due to research results, analyses must be performed by diverse methods, and periodic updating of results is required. This situation will persist until completion of the IDCOR review, the American Physical Society review of some terms and possible rulemaking. (7/20/83)

COMPLETE AS APPLICABLE -

Submitted:
PROJECT MANAGER

Endorsed:
SECTION LDR

Endorsed:
BRANCH CHF

Endorsed:
ASST DIR.

Approved:
DIV. DIR

(Initials)