



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 1, 1997

Dr. Terry R. Lash, Director
Office of Nuclear Energy,
Science and Technology
Department of Energy
Washington, D.C. 20585

SUBJECT: EVALUATION OF THE DESIGN, FABRICATION, AND INSTALLATION OF A LINER
IN THE SPENT FUEL CANAL (POOL) OF THE HIGH FLUX BEAM REACTOR AT THE
BROOKHAVEN NATIONAL LABORATORY

Dear Dr. Lash:

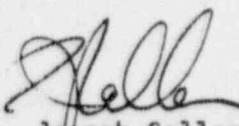
I am responding to the letter you sent me on March 11, 1997, seeking Nuclear Regulatory Commission (NRC) technical assistance on the requested evaluation. The NRC staff met with the Department of Energy (DOE) and Brookhaven Associated Universities staff on March 19, 1997, to discuss this potential NRC effort. During the meeting, DOE staff presented a revised Scope of Work and a project schedule; both are enclosed. The project schedule identifies three activities in which NRC involvement is specifically sought, and corresponds to Items 2, 3, and 5 of the revised Scope of Work. Items 1, 4, and 6 of the Scope of Work will be conducted as needed to support the requested reviews.

With respect to Item 2, DOE and NRC agreed that upon receiving DOE's conceptual design report on April 7, 1997, NRC will be prepared to discuss the report in a meeting to be held at NRC on April 14, 1997. We will provide our comments orally by April 21, 1997, which will be followed up with written comments by April 28, 1997. We will review and comment on Items 3 and 5 in accordance with the schedules shown in the Scope of Work.

We estimate that the review effort will cost \$150,000. Please provide a "Funds Out Interagency Agreement" for us to proceed with this review.

The NRC contact for this work is Mr. Theodore Michaels. If you have any questions, feel free to contact me at (301) 415-1700 or Theodore Michaels at (301) 415-1102.

Sincerely,


L. Joseph Callan
Executive Director
for Operations

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Enclosures:

1. Scope of Work
2. Project Schedule

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PDR ORG EUSDOE
PDR

97-67
RETURN TO REGULATORY CENTRAL FILES

RD-7
x OGM-4 DE
x PRC-1-1 Tech. Assistance 1/1
1703

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L. J. Callan

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Executive Director
for Operations

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DISTRIBUTION:

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LCallan	RScroggins	TMichaels	EHylton	
EJordan	Collins/FMiraglia	PMilano	PDND r/f	
HThompson	ATHadani	OGC	GHubbard	
PNorry	RZimmerman	OPA	GBagchi	
JBlaha	TMartin	OCA	EDO r/f	

*SEE PREVIOUS CONCURRENCE

PDND:PM:LA*
TMichaels/EHylton
3/25/97 3/21/97

TECH ED.*
RSanders
3/20/97

DSSA*
GHubbard
3/21/97

ECGB*
GBagchi
3/21/97

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3/21/97

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DRPM:D
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SCOLLINS
3/21/97

EDO
JCallan
4/1/97

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DOCUMENT NAME: G:\SECY\ACTN_ITM\GT970167

SCOPE OF WORK

NUCLEAR REGULATORY COMMISSION TECHNICAL ASSISTANCE TO THE DEPARTMENT OF ENERGY REGARDING THE DESIGN, FABRICATION, AND INSTALLATION OF A LINER FOR THE HIGH FLUX BEAM REACTOR SPENT FUEL CANAL (POOL)

1. Meet with DOE/BNL personnel at the High Flux Beam Reactor. Review scope of work, tour facility, become familiar with current issues. Conduct initial meeting in March 1997. Conduct similar meetings in the future, as necessary.
2. Review and comment on the Liner and Leakage Detection System Conceptual Design Report. Initiate review coincident with issuance of Draft Conceptual Design Report by BNL's consultant (Raytheon Engineers & Constructors) April 4, 1997. Complete review and issue Safety Evaluation Report by May 16, 1997. (NRC comments on the Conceptual Design Report would be due no later than April 28, 1997. This will allow Raytheon the period from April 28 to May 16 to address all reviewers comments and issue the finalized document.)
3. Review and comment on the Liner and Leakage Detection System Final Design Report. Initiate review coincident with the issuance of the draft Final Design Report by Raytheon (August 15, 1997). Complete review and issue Safety Evaluation Report by November 1, 1997. (This corresponds to two weeks after the issuance of the Final Design Report by Raytheon.)
4. Perform on-site inspections and assessments, as necessary, during installation of the canal liner and leakage detection system. Installation is being scheduled for November 1, 1997 through March 1, 1998.
5. Review and comment on Liner and Leakage Detection System Turnover to Operations Report (completed or closed-out modification package). Initiate review by March 1, 1998. Complete review and issue Safety Evaluation Report by March 15, 1998.
6. Provide additional assistance as mutually agreed upon, and as reflected in a revision to this Scope of Work.

Date: March 6, 1997

Revision: 3 (proposed by BNL Reactor Division)

Note: Changes to the Scope of Work recommended by the BNL Reactor Division, in order to have NRC activities integrate with the schedule being developed for the Canal Liner and Leakage Detection System project, since the proposed Revision 2 are shown in underlined italics.

PROJECT SCHEDULE

ACTIVITY	YEAR →	1997												1998					BEYOND
	MONTH →	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	MAY 1996	
<u>WBS 1.1.1.1 LINER MODIFICATION</u>		▲												▲					
CONCEPTUAL DESIGN REPORT DRAFT			▲ (*)																
CONCEPTUAL DESIGN REVIEW & FINAL REPORT				▲															
PRELIMINARY ENGINEERING					▲														
FINAL ENGINEERING						▲ (*)													
PROCUREMENT										▲									
MODIFICATION PACKAGE PREPARATION & APPROVAL										▲									
FABRICATION, CONSTRUCTION & TESTING													▲						
MODIFICATION PACKAGE COMPLETION & CLOSEOUT																	▲ (*)		
(*) - ACTIVITIES WHICH REQUIRE NRC INVOLVEMENT																			

ENCLOSURE

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With respect to item 2, DOE and NRC agreed that upon receiving DOE's conceptual design report on April 7, 1997, NRC will provide comments by April 21, 1997. Because such a short time is allotted for the review, we anticipate that, for the most part, our comments will be delivered orally. We will cite issues that should be considered in the final design report. We will also discuss these comments at a meeting to be held at NRC on April 14, 1997.

We estimate that the review of this effort will cost \$150,000. Please provide a "Funds Out Interagency Agreement" for us to proceed with this review.

The NRC contact for this work is Mr. Theodore Michaels. If you have any questions, feel free to contact me at (301) 415-1700 or Theodore Michaels at (301) 415-1102.

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JCallan
1/97

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DSSA Received 3-13-97

ACTION

Recd 3/20/97

Weiss

Arnold

EDO Principal Correspondence Control

FROM:

DUE: 04/02/97

EDO CONTROL: G970167

DOC DT: 03/11/97

FINAL REPLY:

Terry R. Lash
DOE

TO:

EDO

FOR SIGNATURE OF :

** GRN **

CRC NO:

EDO

DESC:

ROUTING:

REQUESTING TECHNICAL ASSISTANCE TO DOE REGARDING
THE DESIGN, FABRICATION, AND INSTALLATION OF A
LINER FOR THE HIGH FLUX BEAM REACTOR SPENT FUEL
CANAL

Callan
Jordan
Thompson
Norry
Blaha
Burns
Paperiello, NMSS
Miller, RI
Scroggins, CFO

DATE: 03/12/97

ASSIGNED TO:

CONTACT:

NRR

Collins

SPECIAL INSTRUCTIONS OR REMARKS:

NRR RECEIVED:

NRR ACTION:

NRR ROUTING:

MARCH 13, 1997

DSSA-HOLAHAN

COLLINS
MIRAGLIA
THADANI
ZIMMERMAN
MARTIN
TRAVERS
BOHRER

DRPM:
MARTIN

ACTION

DUE TO NRR DIRECTOR'S OFFICE

BY March 22, '97