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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
 50-401 Shearon Harris Nuclear Power Plant, Unit 2, Carolina 05000401
 50-402 Shearon Harris Nuclear Power Plant, Unit 3, Carolina 05000402
 50-403 Shearon Harris Nuclear Power Plant, Unit 4, Carolina 05000403

AUTH. NAME AUTHOR AFFILIATION
 MCDUFFIE, M.A. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards response to Structural Engineering Branch draft SER
 Open Item 5 re structural effect of cancelation of Units 3 &
 4. Details & revised FSAR figures will be submitted as FSAR
 amend in Sept.

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	NRR LB3 LA	1 0	KADAMBI, P. 01	1 1
	LIGITRA, M. 01	1 1		
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	IE/DEQA/QAB 21	1 1	NRR/DE/AEAB	1 0
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	NRR/DE/EQB 13	2 2	NRR/DE/GB 28	2 2
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	NRR/DHFS/PSRB	1 1	NRR/DL/SSPB	1 0
	NRR/DSI/AEB 26	1 1	NRR/DSI/ASB	1 1
	NRR/DSI/CPB 10	1 1	NRR/DSI/CSB 09	1 1
	NRR/DSI/ICSB 16	1 1	NRR/DSI/METB 12	1 1
	NRR/DSI/PSB 19	1 1	NRR/DSI/RAB 22	1 1
	NRR/DSI/RSB 23	1 1	REG FILE 04	1 1
	RGN2	3 3	RM/DDAMI/MIB	1 0
EXTERNAL:	ACRS 41	6 6	BNL (AMDTs ONLY)	1 1
	DMB/DSS (AMDTs)	1 1	FEMA-REP DIV 39	1 1
	LPDR 03	1 1	NRC PDR 02	1 1
	NSIC 05	1 1	NTIS	1 1

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 Department of the Interior, Bureau of Land Management, on
 the subject of the above-captioned land. The land is
 situated in the County of _____, State of _____,
 and is more particularly described as follows:

The land is situated in the _____ Section, _____
 Township, _____ County, _____ State of _____,
 and is more particularly described as follows:

The land is situated in the _____ Section, _____
 Township, _____ County, _____ State of _____,
 and is more particularly described as follows:

Section	Block	Lot	Acres	Owner
1	1	1	1.00	John Doe
1	1	2	1.00	John Doe
1	1	3	1.00	John Doe
1	1	4	1.00	John Doe
1	1	5	1.00	John Doe
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1	1	10	1.00	John Doe
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Carolina Power & Light Company

AUG 12 1983

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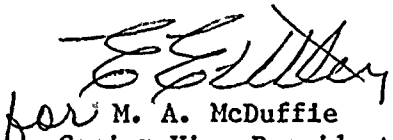
Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NOS. 1 AND 2
DOCKET NOS. 50-400 AND 50-401
DRAFT SAFETY EVALUATION REPORT RESPONSE
STRUCTURAL ENGINEERING BRANCH

Dear Mr. Denton:

Carolina Power & Light Company hereby transmits one original and forty copies of a response to a Shearon Harris Nuclear Power Plant Draft Safety Evaluation Report Open Item. This response is for the Structural Engineering Branch Open Item No. 5 relating to the structural effect of the cancellation of Units 3 and 4. Details and revised Final Safety Analysis Report (FSAR) figures will be submitted as an FSAR Amendment in September.

Yours very truly,


for M. A. McDuffie
Senior Vice President
Engineering & Construction

LSW/cfr (7669NLU)

Attachment

- | | |
|---------------------------------|----------------------------|
| cc: Mr. S. B. Kim (NRC-SEB) | Mr. Wells Eddleman |
| Mr. E. A. Licitra (NRC) | Dr. Phyllis Lotchin |
| Mr. G. F. Maxwell (NRC-SHNPP) | Mr. John D. Runkle |
| Mr. J. P. O'Reilly (NRC-RII) | Dr. Richard D. Wilson |
| Mr. Travis Payne (KUDZU) | Mr. G. O. Bright (ASLB) |
| Mr. Daniel F. Read (CHANGE/ELP) | Dr. J. H. Carpenter (ASLB) |
| Chapel Hill Public Library | Mr. J. L. Kelley (ASLB) |
| Wake County Public Library | |

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Shearon Harris Nuclear Power Plant
Draft Safety Evaluation Report Open Item 5
(FSAR Section 3.8, NRC Question 220.2)

The question addresses the effect of cancelling Units 3 and 4 on Units 1 and 2 from a structural design point of view. For example, wind and tornado-missile loads on the containment building may have changed. To date, the staff has received inadequate response.

Response

Design changes to the SHNPP configuration as a result of cancellation of Units 3 and 4 have been completed. Changes to the Seismic Category I structures have been evaluated to assure continued compliance with the design basis as set forth in the FSAR.

A number of structures were eliminated in their entirety, since they were seismically independent structures on which construction has not yet been started. These include:

- Unit 3 and 4 Containment Buildings
- Unit 3 and 4 Reactor Auxiliary Buildings
- Unit 3 and 4 Tank Building
- Unit 3 and 4 Diesel Generator Building

A number of seismic category one structures were completed as designed, even though they were common facilities. Completion was the most practical solution where significant construction had already taken place, and where a change in seismic response to installed equipment for Units 1 and 2 could result from a revised configuration. These structures include:

- Fuel Handling Building
- Diesel Generator Fuel Oil Storage Building
- Emergency Service Water Screening Structure
- Waste Processing Building

One additional change was required by the deletion of Units 3 and 4. The west side of the Fuel Handling Building and Waste Processing Building had previously been protected by the now deleted buildings. As a result of their new exposure, all of the doors and penetrations in the west wall will be sealed or missile protected as needed. In addition, a seismically designed retaining wall is being constructed adjacent to the west wall to ensure these structures are not exposed to earthen pressures or soil structure interactions not accounted for in their seismic design.

The Emergency Service Water/Cooling Tower Intake Structure was the only Class I building to be redesigned. The north wall of the 3/4 side of the structure was built in its entirety; the remaining portion of this side of the structure was constructed from Elevation 190 MSL to 223 MSL. The design changes considered building stability as well as stiffness to maintain a consistent seismic response for the Unit 1/2 side equipment.



Handwritten marks and symbols in the top right corner, including what appears to be a small 'x' and some illegible characters.

N

DIESEL FUEL OIL STORAGE TK BLDG

GREEN

SEISMIC CATEGORY I BUILDINGS AT PLANT ISLAND

[C/B]	CONTAINMENT BUILDING
[RAB]	REACTOR AUXILIARY BUILDING
[PHB]	FUEL HANDLING & UNLOADING BAY BUILDING
[WPB]	WASTE PROCESSING BUILDING
[DGB]	DIESEL GENERATOR BUILDING
[TKB]	TANK BUILDING
[—]	DIESEL FUEL OIL STORAGE TANK BUILDING
[ESWS]	EMERGENCY SERVICE WATER SCREENING STRUCTURE
[ESW/CTO]	EMERGENCY SERVICE WATER/COOLING TOWER MAKEUP STRUCTURE

UNLOADING BAY

RED

RED

[DGB 1-2]

— RED — BUILDING DELETED
 - - - GREEN — BUILDING COMPLETED AS DESIGN
 ~~~~~ ORANGE — BUILDING MODIFIED

GREEN

[ESWS]

[ESW/CTO]

ORANGE

