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50-400/401/402/403

REC: CASE E G  
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CAROLINA PWR & LIGHT

DOCDATE: 02/22/78  
DATE RCVD: 02/27/78

DOCTYPE: LETTER NOTARIZED: YES

COPIES RECEIVED  
LTR 1 ENCL 0

SUBJECT:

RESPONSE TO NRC'S LTR REQUEST DTD 02/02/78... FURNISHING INFO  
CONCERNING THE MISSILE POTENTIAL OF THE ANNULUS SEAL RING AND  
BIOLOGICAL SHIELDING LOCATED OVER THE REACTOR VESSEL CAVITY DURING  
A LOSS OF COOLANT ACCIDENT.

PLANT NAME: SHEARON HARRIS #1  
SHEARON HARRIS #2  
SHEARON HARRIS #3  
SHEARON HARRIS #4

REVIEWER INITIAL: XJM  
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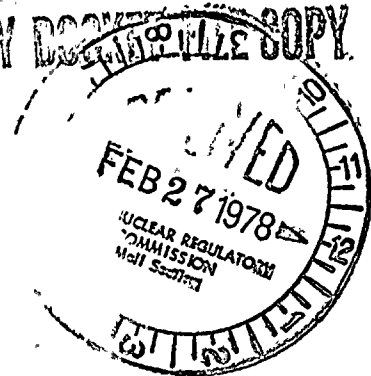




Carolina Power & Light Company

February 22, 1978

REGULATORY DOCKET FILE COPY



Mr. Edson G. Case, Acting Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NOS. 1, 2, 3, AND 4  
DOCKET NOS. 50-400, 50-401, 50-402, 50-403  
POTENTIAL MISSILES INSIDE REACTOR CAVITY

Dear Mr. Case:

Carolina Power & Light Company (CP&L) received a letter from Mr. Victor Stello, Director of Operating Reactors, dated February 2, 1978, which requested information concerning the missile potential of the annulus seal ring and biological shielding located over the reactor vessel cavity during a loss of coolant accident (LOCA). Although the Shearon Harris Nuclear Power Plant (SHNPP) does not have an Operating License, CP&L is responding to Mr. Stello's request for information since the request was directed toward all PWR Licensees.

CP&L has not completed the design of the annulus seal ring or the biological shielding over the reactor cavity. Appropriate design consideration will be given to ensure that they will not become missiles which could prevent safe shutdown of the plant or result in unacceptable radioactive releases.

Yours very truly,

*M A M. Duffie*

M. A. McDuffie  
Senior Vice President  
Engineering & Construction

MAM/gsm

Sworn to and subscribed before me this 22nd day of February, 1978.

Franklin Murray  
Notary Public



336 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

A001  
1/0