



Carolina Power & Light Company  
PO Box 165  
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James Scarola  
Vice President  
Harris Nuclear Plant

JAN 19 2000

SERIAL: HNP-00-006

United States Nuclear Regulatory Commission  
ATTENTION: Document Control Desk  
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400/LICENSE NO. NPF-63  
REQUEST FOR LICENSE AMENDMENT  
TECHNICAL SPECIFICATIONS 3/4.2.2, 3/4.2.3, 3/4.2.5,  
SUPPLEMENTAL INFORMATION

Dear Sir or Madam:

On July 9, 1999, Harris Nuclear Plant (HNP) submitted a proposed license amendment for Technical Specification (TS) 3/4.2.2, "HEAT FLUX HOT CHANNEL FACTOR FQ(Z)," TS 3/4.2.3, "RCS FLOW RATE AND ENTHALPY RISE HOT CHANNEL FACTOR", TS 3/4.2.5 "DNB PARAMETERS," an associated note in TS Table 2.2-1, and associated Bases. HNP is clarifying requirements for TS 3.2.2 Action a. to be consistent with NUREG-1431, Revision 1. "Standard Technical Specifications, Westinghouse Plants," dated April 1995. Enclosed is the revised TS page incorporating the changes to TS page 3/4 2-5.

HNP stated in the July 9, 1999 submittal that the changes made were consistent with NUREG-1431, Revision 1. The changes made in this supplemental information are also consistent with NUREG-1431, Revision 1. Therefore, this supplemental information does not affect the conclusions of either the 10 CFR 50.92 evaluation or the Environmental Considerations submitted as part of HNP's July 9, 1999 letter.

CP&L requests that the proposed amendment be issued such that implementation will occur within 60 days of issuance to allow time for procedure revision and orderly incorporation into copies of the Technical Specifications.

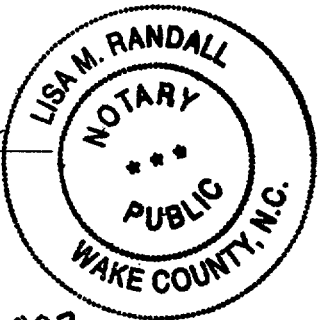
Please refer any questions regarding this submittal to Mr. J. H. Eads at (919) 362-2646.

Sincerely,

A001 1/1

J. Scarola, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief, and the sources of his information are employees, contractors, and agents of Carolina Power & Light Company.

*Lisa M. Randall*

A circular notary seal for Lisa M. Randall, Notary Public, Wake County, N.C. The seal features the name "LISA M. RANDALL" at the top, "NOTARY PUBLIC" in the center, and "WAKE COUNTY, N.C." at the bottom. Three stars are positioned between the words "NOTARY" and "PUBLIC".

Notary (Seal)

My commission expires: *6-7-2003*

MSE/mse

Enclosures: Technical Specification Page

c: Mr. J. B. Brady, NRC Sr. Resident Inspector  
Mr. Mel Fry, Director, NC DEHNR  
Mr. R. J. Laufer, NRC Project Manager  
Mr. L. A. Reyes, NRC Regional Administrator

ENCLOSURE TO SERIAL: HNP-00-006

SHEARON HARRIS NUCLEAR POWER PLANT  
NRC DOCKET NO. 50-400/LICENSE NO. NPF-63  
REQUEST FOR LICENSE AMENDMENT  
TECHNICAL SPECIFICATION TS 3/4.2.2, TS 3/4.2.3, TS 3/4.2.5

TECHNICAL SPECIFICATION PAGES

POWER DISTRIBUTION LIMITS

3/4.2.2 HEAT FLUX HOT CHANNEL FACTOR - F<sub>0</sub>(Z)

LIMITING CONDITION FOR OPERATION

3.2.2 F<sub>0</sub>(Z) shall be limited by the following relationships: *within the limits specified in the COLR.*

*Delete*

$$F_0(Z) \leq \frac{F_0^{RTP}}{P} \times K(Z) \text{ FOR } P > 0.5$$
$$F_0(Z) \leq \frac{F_0^{RTP}}{0.5} \times K(Z) \text{ FOR } P \leq 0.5$$

Where:

$F_0^{RTP}$  = the F<sub>0</sub> limit at RATED THERMAL POWER specified in the CORE OPERATING LIMITS REPORT (COLR), plant procedure PLP-106,

$P = \frac{\text{THERMAL POWER}}{\text{RATED THERMAL POWER}}$ , and

K(Z) = the normalized F<sub>0</sub>(Z) as a function of core height specified in the COLR.

*Delete*

APPLICABILITY: MODE 1.

ACTION:

With F<sub>0</sub>(Z) exceeding its limit:

- a. Reduce THERMAL POWER at least 1% for each 1% F<sub>0</sub>(Z) exceeds the limit within 15 minutes and similarly reduce the Power Range Neutron Flux-High Trip Setpoints within the next 24 hours; POWER OPERATION may proceed for up to a total of 72 hours; subsequent POWER OPERATION may proceed provided the Overpower ΔT Trip Setpoints have been reduced at least 1% for each 1% F<sub>0</sub>(Z) exceeds the limit. *8 Add Delete*
- b. Identify and correct the cause of the out-of-limit condition prior to increasing THERMAL POWER above the reduced limit required by ACTION a., above; THERMAL POWER may then be increased provided F<sub>0</sub>(Z) is demonstrated through incore mapping to be within its limit.

*Add* — Otherwise, be in at least MODE 2 within 6 hours.

POWER DISTRIBUTION LIMITS

3/4.2.2 HEAT FLUX HOT CHANNEL FACTOR -  $F_o(Z)$

LIMITING CONDITION FOR OPERATION

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3.2.2  $F_o(Z)$  shall be within the limits specified in the COLR.

APPLICABILITY: MODE 1.

ACTION:

With  $F_o(Z)$  exceeding its limit:

- a. Reduce THERMAL POWER at least 1% for each 1%  $F_o(Z)$  exceeds the limit within 15 minutes and similarly reduce the Power Range Neutron Flux-High Trip Setpoints within the next 8 hours; POWER OPERATION may proceed for up to a total of 72 hours; subsequent POWER OPERATION may proceed provided the Overpower  $\Delta T$  Trip Setpoints have been reduced at least 1% for each 1%  $F_o(Z)$  exceeds the limit. Otherwise, be in at least MODE 2 within 6 hours.
- b. Identify and correct the cause of the out-of-limit condition prior to increasing THERMAL POWER above the reduced limit required by ACTION a., above; THERMAL POWER may then be increased provided  $F_o(Z)$  is demonstrated through incore mapping to be within its limit.