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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400  
 AUTH. NAME AUTHOR AFFILIATION  
 ZIMMERMAN, S. R. Carolina Power & Light Co.  
 . RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Forwards nonproprietary Rev 1 to WCAP-11169 & proprietary Rev 1 WCAP-11168, "RCS Flow Uncertainty for Shearon Harris Unit 1." Tech Spec change request will be submitted by separate ltr. Proprietary rept withheld (ref 10CFR2.790). *"see subject files for WCAPs"*

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NOTES: Application for permit renewal filed. 05000400

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Carolina Power & Light Company

SERIAL: NLS-86-413

NOV 13 1986

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

SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400/LICENSE NO. NPF-53  
REACTOR COOLANT SYSTEM FLOW UNCERTAINTY ANALYSIS

Dear Mr. Denton:

Carolina Power & Light Company submits, for information only, the Reactor Coolant System Flow Uncertainty Analysis for the Shearon Harris Nuclear Power Plant (WCAP-11168, Revision 1, proprietary and non-proprietary versions). The attached analysis contains information which is proprietary to Westinghouse Electric Corporation; this is supported by an affidavit signed by Westinghouse, the owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in 10 CFR 2.790(b)(4).

Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR 2.790. Correspondence with respect to the proprietary aspects of the Application for Withholding or the supporting Westinghouse affidavit should reference CAW-86-089 and should be addressed to Mr. R. A. Wiesemann, Manager, Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, PA 15230.

This analysis supports the current Shearon Harris Nuclear Power Plant Technical Specification (TS) 3/4.2.3. Additionally, this information justifies a revision to TS Surveillance 4.2.3.5, which requires the measurement instrumentation to be calibrated within seven days prior to performance of the calorimetric flow measurement. The analysis (Section III) justifies a period of 30 to 90 days in lieu of the 7-day requirement. The Technical Specification change request will be submitted by separate letter and will request that the change be issued with the full-power TS.

If you have any questions regarding the technical aspects of the attached information, please contact Mr. Gregg Sindors at (919) 836-8168.

Yours very truly,

S. R. Zimmerman  
Manager

Nuclear Licensing Section

GAS/mf (5074GAS)  
Attachment

cc: Mr. H. Balukjian (NRC)  
Mr. B. C. Buckley (NRC)  
Dr. J. Nelson Grace (NRC-RII)  
Mr. G. F. Maxwell (NRC-SHNPP)

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