



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 5, 2011

Mr. William Jefferson, Jr.
Vice President
Carolina Power & Light Company
Shearon Harris Nuclear Plant
P.O. Box 165, Mail Zone 1
New Hill, NC 27562-0165

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 - REQUEST FOR
ADDITIONAL INFORMATION REGARDING MEASUREMENT UNCERTAINTY
RECAPTURE POWER UPRATE (TAC NO. ME6169)

Dear Mr. Jefferson:

By letter dated April 28, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11124A180), as supplemented on June 23, 2011 (ADAMS Accession No. ML11179A052), Carolina Power & Light Company (the licensee) requested approval from the U.S. Nuclear Regulatory Commission (NRC) to increase the core thermal power level of Shearon Harris Nuclear Power Plant, Unit 1 from 2,900 megawatts thermal (MWt) to 2,948 MWt, an increase of approximately 1.66% over the present licensed power level and to change the power plant technical specifications accordingly.

The NRC staff is reviewing your submittal and has determined that additional information is needed to complete its review. The specific questions are found in the enclosed request for additional information (RAI). It is requested that your RAI response be provided by August 30, 2011, as discussed with your staff on July 29, 2011. If more time is needed to respond to the RAI, your request for additional time should include a basis for the need for an extension.

W. Jefferson

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Please feel free to contact me at 301-415-2020 or by e-mail at brenda.mozafari@nrc.gov if you have any questions on this issue or require additional time to submit your response.

Sincerely,



for Brenda Mozafari, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1
REQUEST FOR ADDITIONAL INFORMATION REGARDING
MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE
TAC NO. ME6169

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The NRC staff is reviewing your submittal, specifically Section VII of Enclosure 2 to your letter dated June 23, 2011, and has determined that additional information is needed to complete its review. These questions conform to Section VII of the Regulatory Issue Summary (RIS) 2002-03, "Guidance on the Content of Measurement Uncertainty Recapture Power Uprate Applications."

1. Operator Actions (RIS 2002-03 Section VII.1)

The submittal states, "There is no reduction in time for required operator actions." Clarify whether this statement refers to the time required for the operator to complete the operator actions credited in your analysis and/or the time available to operators as it is outlined in the procedures and accident scenario analysis.

2. Emergency and Abnormal Operating Procedures (RIS 2002-03 Section VII.2.A)

Explain how the revised abnormal operating procedures and emergency operating procedures setpoints affect the safety margins associated with the credited operator actions.

3. Control Room Controls, Displays (Including the Safety Parameter Display System), and Alarms (RIS 2002-03 Section VII.2.B)

Describe how effective the Leading Edge Flow Meter electronic cabinet output performance will be due to its display having two different purposes.

W. Jefferson

- 2 -

Please feel free to contact me at 301-415-2020 or by e-mail at brenda.mozafari@nrc.gov if you have any questions on this issue or require additional time to submit your response.

Sincerely,

/RA by FSaba for/

Brenda Mozafari, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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* By memo

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