

From: Orf, Tracy
Sent: Thursday, May 12, 2011 7:18 AM
To: 'Wasik, Chris'
Cc: Abbott, Liz; 'Frehafer, Ken'
Subject: St. Lucie 2 EPU - Supplemental Information needed for acceptance of requested licensing action re: amendment (TAC No. ME5843)

Dear Mr. Wasik,

By letter dated February 25, 2011, Florida Power & Light Company (FPL) submitted a license amendment request for St. Lucie Plant, Unit No. 2. The proposed amendment would increase the licensed core power level for St. Lucie, Unit No. 2, from 2700 megawatts thermal (MWt) to 3020 MWt. The increase in core thermal power will be approximately 11.85 percent, including a 10 percent power uprate and a 1.7 percent measurement uncertainty recapture, over the current licensed core thermal power level and is categorized as an extended power uprate. The proposed amendment would modify the renewed facility operating license and the technical specifications to support operation at the increased core thermal power level.

The purpose of this letter is to provide the results of the U.S. Nuclear Regulatory Commission (NRC) staff's acceptance review of this amendment request. The acceptance review was performed to determine if there is sufficient technical information in scope and depth to allow the NRC staff to complete its detailed technical review. The acceptance review is also intended to identify whether the application has any readily apparent information insufficiencies in its characterization of the regulatory requirements or the licensing basis of the plant.

Consistent with Section 50.90 of Title 10 of the *Code of Federal Regulations* (10 CFR), an amendment to the license (including the technical specifications) must fully describe the changes requested, and following as far as applicable, the form prescribed for original applications. Section 50.34 of 10 CFR addresses the content of technical information required. This section stipulates that the submittal address the design and operating characteristics, unusual or novel design features, and principal safety considerations.

The NRC staff has reviewed your application and concluded that the information delineated below is necessary to enable the staff to make an independent assessment regarding the acceptability of the proposed amendment in terms of regulatory requirements and the protection of public health and safety and the environment.

In order to make the application complete, the NRC staff requests that FPL supplement the application to address the information requested in the enclosure by May 25, 2011. This will enable the NRC staff to begin its detailed technical review. If the information responsive to the NRC staff's request is not received by the above date, the application will not be accepted for review pursuant to 10 CFR 2.101, and the NRC will cease its review activities associated with the application. If the application is subsequently accepted for review, you will be advised of any further information needed to support the staff's detailed technical review by separate correspondence.

The information requested and associated time frame in this letter were discussed with you on May 11, 2011.

If you have any questions, please contact me at the telephone number below or by replying to this e-mail.

Sincerely,

Tracy J. Orf, Project Manager
St. Lucie
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation
Phone: (301) 415-2788

Docket No. 50-389

SUPPLEMENTAL INFORMATION NEEDED

AMENDMENT REQUEST

FLORIDA POWER AND LIGHT COMPANY

ORLANDO UTILITIES COMMISSION
OF THE CITY OF ORLANDO, FLORIDA

AND

FLORIDA MUNICIPAL POWER AGENCY

ST. LUCIE PLANT, UNIT NO. 2

DOCKET NO. 50-389

Section 2.2.2, Balance of Plant, of the EPU licensing report (LR), Attachment 5 of the LAR, indicates that pre-baseline walkdowns found vibration levels at some locations that required detailed analyses that showed that six pipe modifications and three pipe support installations/modifications are required to prevent failure due to vibration. Summary of Regulatory Commitments, Attachment 7 of the LAR, includes modifications to pipe supports, but does not include modifications to piping.

- 1) The staff requests that the licensee provide assurance that all structural modifications and/or additions have been identified and designed and that all structural evaluations and required design calculations to show that systems, structures and components (SSCs) credited to and/or affected by the proposed EPU have been completed and that all controlled documentation exists which finds the applicable SSCs structurally adequate to perform their intended design functions under EPU conditions. Upon such assurance, the EMCB staff will accept the EPU application for structural integrity review.

- 2) Please discuss the “baseline” pipe vibrations and why the “baseline” has not been completed yet that could potentially identify structural modifications required for EPU and also discuss baseline remainder and its date of completion.