



October 20, 2011

L-2011-452
10 CFR 50.90

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Re: St. Lucie Plant Unit 1
Docket No. 50-335
Renewed Facility Operating License No. DPR-67

Response to NRC Request for Additional Information (RAI)
Regarding Extended Power Uprate License Amendment Request

References:

- (1) R. L. Anderson (FPL) to U.S. Nuclear Regulatory Commission (L-2010-259), "License Amendment Request for Extended Power Uprate," November 22, 2010, Accession No. ML103560419.
- (2) Email from NRC (T. Orf) to FPL (C. Wasik), "St. Lucie 2 EPU draft RAIs -- Electrical Engineering (EEEEB)," September 15, 2011.

By letter L-2010-259 dated November 22, 2010 [Reference 1], Florida Power & Light Company (FPL) requested to amend Renewed Facility Operating License No. DPR-67 and revise the St. Lucie Unit 1 Technical Specifications (TS). The proposed amendment will increase the unit's licensed core thermal power level from 2700 megawatts thermal (MWt) to 3020 MWt and revise the Renewed Facility Operating License and TS to support operation at this increased core thermal power level. This represents an approximate increase of 11.85% and is therefore considered an Extended Power Uprate (EPU).

By email from the NRC Project Manager dated September 15, 2011 [Reference 2], additional information was requested by the NRC staff in the Electrical Engineering Branch (EEEEB) to support their review of the EPU License Amendment Request (LAR). The draft request for additional information (RAI) identified nine questions for St. Lucie Unit 2, and the NRC Project Manager has requested that RAI EEEB-9 also be answered as it applies to the St. Lucie Unit 1 LAR. The response to this RAI is provided in the attachment to this letter.

In accordance with 10 CFR 50.91(b)(1), a copy of this letter is being forwarded to the designated State of Florida official.

A001
NRR

This submittal does not alter the significant hazards consideration or environmental assessment previously submitted by FPL letter L-2010-259 [Reference 1].

This submittal contains no revisions to existing commitments.

A new commitment is made pursuant to the FPL response to RAI EEEB-9. Accordingly, the following commitment is made:

FPL commits to completing the modifications to remove the wave traps in the St. Lucie plant switchyard and the FPL Midway substation prior to operating St. Lucie Unit 1 at EPU ratings.

Should you have any questions regarding this submittal, please contact Mr. Christopher Wasik, St. Lucie Extended Power Uprate LAR Project Manager, at 772-467-7138.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Executed on *20-October-2011*

Very truly yours,



Richard L. Anderson
Site Vice President
St. Lucie Plant

Attachment

cc: Mr. William Passetti, Florida Department of Health

Response to Request for Additional Information

The following information is provided by Florida Power & Light in response to the U.S. Nuclear Regulatory Commission's (NRC) Request for Additional Information (RAI). This information was requested to support the Extended Power Uprate (EPU) License Amendment Request (LAR) for St. Lucie Unit 1 that was submitted to the NRC by FPL via letter (L-2010-259), November 22, 2010, Accession No. ML103560419.

In an email from the NRC Project Manager dated September 15, 2011, additional information was requested by the NRC staff in the Electrical Engineering Branch (EEEB) to support their review of the St. Lucie Unit 2 EPU LAR. The draft request for additional information (RAI) identified nine questions. The NRC Project Manager has requested that St. Lucie Unit 2 RAI EEEB-9 also be answered as it applies to St. Lucie Unit 1. The response to this RAI is provided below.

EEEB-9 (St. Lucie Unit 2)

The licensee proposed following changes in Section 2.3.2 of Attachment 5 of LAR:

- 1. The three St. Lucie Midway line ratings will be increased from 2380 Ampere (A) to 2790 A.**
- 2. Modifications to install spacers between existing bundled phase conductors, fiber optic overhead ground wire on all three lines, replacement of associated disconnect switches and a power system stabilizer.**
- 3. Modifications to replace wavetraps with overhead fiber optic protection schemes, replacement of disconnect switches, and upgrade or replacement of associated jumpers, buses and equipment connections.**

Provide a discussion providing the reasoning for not including these modifications as Regulatory Commitments in Attachment 7 of LAR.

Response

The work described above was expected to be completed during the 2010 Unit 1 refueling outage. Because of the timing, it was not considered necessary to include these items in Attachment 7 of the LAR. The noted modifications have been completed with the exception of the wave trap removals in the St. Lucie plant switchyard and the FPL Midway substation, which are scheduled for completion during the 2011 Unit 1 refueling outage.

FPL commits to completing the modification to remove the wave traps prior to operating St. Lucie Unit 1 at EPU ratings.