

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 110009-EI
FLORIDA POWER & LIGHT COMPANY

JULY 15, 2011

IN RE: NUCLEAR POWER PLANT COST RECOVERY
FOR THE YEARS ENDING
DECEMBER 2011 AND 2012

SUPPLEMENTAL TESTIMONY OF:

TERRY O. JONES

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1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **SUPPLEMENTAL TESTIMONY OF TERRY O. JONES**

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5 **JULY 15, 2011**

6
7 **Q. Please state your name and business address.**

8 My name is Terry O. Jones, and my business address is 700 Universe Boulevard, Juno
9 Beach, FL 33408.

10 **Q. By whom are you employed and what is your position?**

11 A. I am employed with Florida Power & Light Company (FPL) as Vice President, Nuclear
12 Power Uprates.

13 **Q. Have you previously filed testimony in this docket?**

14 A. Yes. I provided testimony on March 1, 2011 related to the Extended Power Uprate
15 (EPU) project activities and costs in 2009, testimony on March 1, 2011 related to the
16 EPU project activities and costs in 2010, and testimony on May 2, 2011 related to
17 anticipated EPU project activities and costs in 2011 and 2012. This is a supplement to
18 my May 2, 2011 testimony.

19 **Q. What is the purpose of this supplement to your testimony?**

20 A. The purpose of this supplement is to provide the Florida Public Service Commission
21 (Commission), Commission Staff, and all parties with an update on three aspects of the
22 EPU project: (i) the outage schedules; (ii) the increased output currently being realized
23 from St. Lucie Unit 2, following the work that was performed earlier this year during the

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1 St. Lucie Unit 2 spring outage; and (iii) the acceptance or approval of two License
2 Amendment Requests.

3 **Q. Please provide the update related to the outage schedules.**

4 A. Several changes have been made to the outage schedules since my May 2, 2011
5 testimony. These changes have been fully vetted and approved for the EPU project.
6 First, as stated in my testimony at pages 11-12, the St. Lucie Unit 2 spring 2011 outage
7 lasted longer than planned, and the outage was not complete at the time my testimony
8 was filed. The outage concluded and the unit was returned to service on May 8, 2011.

9
10 Second, we are now planning for longer durations for the remaining four EPU outages.
11 As stated in my May 2, 2011 testimony at page 4, “[a]s the engineering analyses continue
12 and as modification designs are finalized and construction plans are developed, FPL will
13 be able to refine the planned outage durations, implementation resource requirements,
14 and the total project cost”. Since the preparation of my testimony, FPL has in fact
15 adjusted the planned outage durations. Each of the outages has been extended, for
16 planning purposes at this time, between 10 and 40 days, for a total of 85 additional days.
17 FPL determined that additional time needed to be assumed to allow for construction and
18 logistical discovery during implementation. This decision reflects the operating
19 experience gained from completing the implementation of the first FPL EPU outages and
20 non-FPL EPU outages, as well as progress that has been made in the engineering design
21 phase and implementation phase – specifically, the planning and constructability reviews
22 for the implementation of the EPU modifications. The longer planned duration outages

1 also include time for pre-operational and functional testing of modifications prior to
2 turnover to operations.

3
4 Third, the start dates of the remaining St. Lucie Unit 2 and Turkey Point Unit 4 outages
5 have been pushed back slightly, while the start date for the Turkey Point Unit 3 outage
6 has advanced slightly. The start dates were adjusted to minimize the overlap of
7 generating unit outages (not just nuclear unit outages) on FPL's system and to maximize
8 the usage of nuclear fuel.

9 **Q. Please provide the update related to the increased output being realized from St.
10 Lucie Unit 2.**

11 A. As stated in my testimony at page 15, FPL anticipated that the return to service from the
12 St. Lucie Unit 2 outage would result in an increase of approximately 20 MWe in the
13 output of the unit due to the installation of a more efficient low pressure turbine rotor,
14 and that approximately 17 MWe of that increased output would be for the benefit of
15 FPL's customers (after accounting for the co-owners' share). As mentioned above, St.
16 Lucie Unit 2 was returned to service on May 8, 2011. Preliminary testing indicates that
17 there is an increase of approximately 34 MWe, 29 MWe of which is for the benefit of
18 FPL's customers.

19 **Q. Please provide the update related to the progress of FPL's License Amendment
20 Requests (LARs.)**

21 A. FPL has accomplished two major milestones in its licensing phase of the project. On
22 June 23, 2011, the Nuclear Regulatory Commission (NRC) accepted FPL's St. Lucie
23 Unit 2 EPU LAR for review. Also on June 23, 2011, the NRC approved FPL's Turkey

1 Point Alternate Source Term LAR – a prerequisite to approval of the Turkey Point EPU
2 LAR.

3 **Q. Do these EPU project changes affect the feasibility analyses performed by Dr. Sim?**

4 A. The outage schedule changes and the increased output of St. Lucie Unit 2 affect Dr.
5 Sim's feasibility analyses. The LAR accomplishments do not. Dr. Sim is providing
6 supplemental testimony and exhibits demonstrating the effects of the outage schedule and
7 St. Lucie Unit 2 output changes on the feasibility analyses, as well as the effects of other
8 system resource planning assumptions that have recently changed. As Dr. Sim explains
9 in his supplemental testimony, the EPU project remains solidly cost-effective for
10 customers.

11 **Q. Does that complete your supplement?**

12 A. Yes.