



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

September 4, 2009

LICENSEE: Florida Power & Light Company
FACILITY: St. Lucie Plant, Unit 1
SUBJECT: SUMMARY OF AUGUST 25, 2009, MEETING WITH FLORIDA POWER &
LIGHT COMPANY, ON UPCOMING EXTENDED POWER UPRATE
SUBMITTAL

On August 25, 2009, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Florida Power & Light Company (FPL) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss FPL's upcoming extended power uprate (EPU) submittal for St. Lucie, Unit 1. A list of attendees is provided as an enclosure and the licensee's presentation slides are available in the Agencywide Document Management System at Accession No. ML092440256.

The licensee provided an overview of their EPU submittal for St. Lucie, Unit 1. The EPU will be a 12-percent uprate, including a 1.7-percent measurement uncertainty recapture uprate. The original licensed thermal power was 2560 MW, and after a 5.5-percent stretch power uprate in 1981, the current licensed thermal power is 2700. The uprate licensed thermal power would then be 3020 MW. The NRC staff requested that the licensee provide original licensed thermal power plant parameters when providing tables comparing current to EPU plant parameters. The NRC staff also requested that a summary of the grid stability study be included with the EPU submittal if the actual report will be submitted separately.

St. Lucie, Unit 1, is a Combustion Engineering (now Westinghouse) 2-loop pressurized-water reactor licensed in 1976. Its steam generators were replaced in 1991 and its license was renewed in 2003. Most of the increased power will be from increased flow rate on the secondary side with a slight change in delta T. The fuel will be changed to a slightly higher enrichment and M5™ cladding material.

Most plant modifications required for the uprate will be performed pursuant to Title 10 of the *Code of Federal Regulations*, Section 50.59 and the plant engineering group is concentrating on maintaining or increasing design margins. As part of the EPU submittal, the licensee plans to request license amendments related to Leading Edge Flow Meter installation, upgrades to the containment purge system, and safety injection tank design pressure increase.

For reactor protection system and engineered safety features, the licensee will not change the setpoints and will continue to use the current AREVA methodology. The CENTS model has been benchmarked against actual startup and operating event data to model the response of the plant during startup and power ascension to the uprate level. The licensee plans to perform individual component and system testing vice an integrated plant test. The NRC staff asked that the licensee provide justification for those transient tests that would not be performed.

The licensee provided details on how they will address the information required in Review Standard RS-001, "Review Standard for Extended Power Uprates." The NRC staff cautioned the licensee to provide designs and analyses requiring NRC review at the time of the submittal instead of committing to provide them at a later date as other licensees had attempted. Additionally, the NRC staff asked the licensee to provide information on environmental justice when providing information for an environmental assessment.

The St. Lucie, Unit 1, submittal is forecast for fall 2009 with implementation in fall 2011, pending approval.

Members of the public were not in attendance, and no Public Meeting Feedback forms were received.

Please direct any inquiries to me at 301-415-2788, or Tracy.Orf@nrc.gov.



Tracy J. Orf, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-335

Enclosure:
List of Attendees

cc w/encl: Distribution via Listserv

LIST OF ATTENDEES

AUGUST 25, 2009, MEETING WITH FLORIDA POWER & LIGHT COMPANY

UPCOMING EXTENDED POWER UPRATE SUBMITTAL FOR ST. LUCIE, UNIT 1

NRC

Tom Boyce, NRR
Richard Bulavinetz, NRR
DyLanne Davigneaud, NRR
Scott Elkins, RES
Hukam Garg, NRR
John Huang, NRR
Nageswara R. Karipineni, NRR
Stephen Klementowicz, NRR
Aron Lewin, NRR
G. Singh Matharu, NRR
Jason Paige, NRR
Mathew M. Panicker, NRR
Bo Pham, NRR
Sheila Ray, NRR
Andrea Russell, NRR
Summer B. Sun, NRR
Alexander Tsirigotis, NRR

FLORIDA POWER & LIGHT COMPANY

Liz Abbott
Dave Brown
Jeff Brown
Steve Cornell
Ken Garner, WEC
Dale Graves, Shaw Stone & Webster
Jack Hoffman
Jay Kabadi
Eric Katzman
Chris Wasik

Enclosure

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/RA/

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ADAMS Accession No. Meeting Summary ML092430038 Slides ML092440256
Notice ML092260029

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DATE	09/03/09	09/03/09	09/04/09

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