



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

November 19, 2010

**LICENSEE:** Florida Power & Light Company (FPL)  
**FACILITY:** St. Lucie Units 1 and 2 and Turkey Point Units 3 and 4  
**SUBJECT:** SUMMARY OF SEPTEMBER 16, 2010, MEETING WITH FPL REGARDING FORTHCOMING SUBMITTAL OF THE ST. LUCIE AND TURKEY POINT EXTENDED POWER UPRATES

On September 16, 2010, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of FPL at NRC Headquarters, Two White Flint North, 11545 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss the forthcoming submittal of the St. Lucie Units 1 and 2 and Turkey Point Units 3 and 4 applications for extended power uprate (EPU). A list of attendees is provided as an enclosure and the licensee's meeting slides are available in the Agencywide Documents Access and Management System at Accession No. ML102600400.

FPL presented information on how FPL was taking the NRC Draft Division of Safety Systems Interim Staff Guidance, DSS-ISG-2010-01, "Staff Guidance Regarding the Nuclear Criticality Safety Analysis for Spent Fuel Pools," into account while performing criticality analyses of the spent fuel pools. FPL requested NRC staff feedback on FPL's approaches.

FPL presented its approach for St. Lucie Unit 1, mentioning that the criticality analysis for the entire pool would be submitted with the application for the EPU. Also, the new approach would include adding neutron absorbers, simplifying patterns, and using more conservative assumptions that would reduce the effort to review the analysis. The licensee stated that neutron absorber panels similar to those used at Turkey Point are planned to be installed.

The staff asked clarifying questions on several topics including: the types of control rods that would be used and the possibility that one could be misloaded or misplaced; controls on the use of input parameters in reload analyses; the types of axial burnup profiles; differences between Boraflex and Metamic inserts; assumptions in tolerance calculations; and calculation methods for fission product worth.

FPL stated that the St. Lucie Unit 2 approach will be similar to St. Lucie Unit 1 with adjustments for fuel and rack differences.

The licensee stated that Turkey Point's License Amendment Request 207 regarding spent fuel pool criticality has already been submitted to the NRC for review. Turkey Point's analyses have several differences from the St. Lucie analyses. There is no radial zoning at Turkey Point and the Turkey Point calculations were performed using the PARAGON code for depletion calculations versus CASMOS at St. Lucie.

The NRC staff asked questions on several portions of the Turkey Point criticality analyses including: degradation methods of Metamic; the treatment of flux suppressor assemblies; the temperatures used in the depletion calculations; the treatment of different fuel enrichment assemblies within the same region; and the amount of depletion uncertainty.

Members of the public were in attendance; however no Public Meeting Feedback forms were received from them. Please direct any inquiries to me at 301-415-2788, or Jason Paige at 301-415-5888.

A handwritten signature in black ink, appearing to read "Tracy J. Orf". The signature is fluid and cursive, with the first name "Tracy" and last name "Orf" clearly distinguishable.

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

Docket Nos. 50-250, 50-251,  
50-335, and 50-389

Enclosure:  
List of Attendees

cc w/encl: Distribution via Listserv

LIST OF ATTENDEES

AUGUST 18, 2010, MEETING WITH FLORIDA POWER & LIGHT COMPANY

FORTHCOMING EXTENDED POWER UPRATE APPLICATION FOR

ST. LUCIE UNITS 1 AND 2 AND TURKEY POINT UNITS 3 AND 4

Attending in person:

Tom Abbatiello, FPL  
Steve Franzone, FPL  
Terry Jones, FPL  
Dale Lancaster, FPL/Nuclear Consultants  
Larry Nicholson, FPL  
Emilio Fuentes, FPL  
Claude Villard, FPL

Stefan Anton, Holtec  
Tao He, Holtec  
Jay Leff, Holtec

Doug Broaddus, NRC/NRR  
Eva Brown, NRC/NRR  
Davida Cunanan, NRC/NRR  
Joe Giitter, NRC/NRR  
Delores Greene, NRC/NRR  
Allen Howe, NRC/NRR  
Jason Paige, NRC/NRR  
Trace Orf, NRC/NRR  
Bill Ruland, NRC/NRR  
Tony Ulses, NRC/NRR  
Emma Wong, NRC/NRR  
Kent Wood, NRC/NRR

Vefa Kucukboyaci, Westinghouse  
Ed Mercier, Westinghouse

Attending via telephone:

Jerry Burford, Entergy

Chris Wasik, FPL

R. Lynn Fisher, FL Public Service Commission  
David Rich, FL Public Service Commission

William Freebairn, Nucleonics Week

Susan Salisbury, Palm Beach Post

Kurt Myers, St. Lucie County Public Safety &  
Communications

Glenn Adams, Xcel Energy

Valerie Amore  
Thomas Saporito

ENCLOSURE

November 19, 2010

- 2 -

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OFFICE	LPL2-2/PM	LPL2-2/LA	LPL2-2/BC	DORL/LPL2-2/PM
NAME	TOrf	BClayton	DBroadus	TOrf
DATE	11/12/2010	11/10/2010	11/18/2010	11/19/2010

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