



L-2010-151  
10 CFR 50.46  
10 CFR 52.3

July 19, 2010

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555-0001

Re: Florida Power & Light Company  
Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
Small-Break Loss of Coolant Accident Analysis  
10 CFR 50.46 Thirty (30) Day Report for the AP1000 Standard Plant Design

Reference:

1. FPL Letter L-2009-144 to NRC, dated June 30, 2009, Application for Combined Licenses for Turkey Point Units 6 and 7
2. Westinghouse Electric Corporation letter, DCPNRC 002943, to the NRC dated June 30, 2010, 10 CFR 50.46 Thirty (30) Day Report for the AP1000 Standard Plant Design

Florida Power & Light Company (FPL) submitted an application for combined licenses (COL) for Turkey Point Units 6 and 7 to be located in Miami-Dade County, FL on June 30, 2009, (Reference 1). The purpose of this letter is to provide a required report in accordance with 10 CFR 50.46, Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors, for the COL application submitted for Turkey Point Units 6 and 7.

Pursuant to 10 CFR 50.46, acceptance criteria for emergency core cooling systems for light-water reactors, Westinghouse Electric Company (WEC) submitted a report on June 30, 2010, (Reference 2) to document an emergency core cooling system (ECCS) evaluation model error that affects the temperature calculation for the AP1000 Standard Plant Design. A 30 day report is required if the peak centerline temperature (PCT) error assessed is greater than 50°F. The WEC letter (Reference 2) reported that errors were discovered in the AP1000 Design Control Document (DCD) small-break loss of coolant accident analysis-of-record (AOR) for the Loss of Coolant Accident 10-inch Transient Adiabatic Heat-up Calculation.

Details of the error and WEC actions to correct the error were provided in the June 30, 2010 WEC letter (Reference 2).

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Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
L-2010-151 Page 2

The FPL COL application for the proposed Turkey Point Units 6 and 7 incorporates by reference the AP1000 DCD, and thus, utilizes the peak cladding temperature calculations performed by WEC. Therefore, the WEC report is also applicable to the FPL Turkey Point Units 6 and 7 COL Application.

If you have any questions, or need additional information, please contact me at 561-691-7490.

Sincerely,

A handwritten signature in black ink, appearing to read 'William Maher', with a stylized, cursive script.

William Maher  
Senior Licensing Director – New Nuclear Projects

cc:

PTN 6&7 Project Manager, AP1000 Projects Branch 1, USNRC DNRL/NRO  
Regional Administrator, Region II, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant