

Serial: NPD-NRC-2010-057

July 14, 2010

10CFR50.46(a)(3)

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

10 CFR 50.46 THIRTY (30) DAY REPORT FOR THE AP1000 STANDARD PLANT DESIGN LEVY NUCLEAR PLANT, UNITS 1 AND 2 DOCKET NOS. 52-029 AND 52-030

References:

- Letter from James Scarola (PEF) to Michael Johnson (NRC), dated July 28, 2008, "Application for Combined License for Levy Nuclear Power Plant Units 1 and 2 NRC Project Number 756"
- 2. Letter from Robert Sisk (WEC) to U.S. NRC Document Control Desk (NRC), dated June 30, 2010, "10 CFR 50.46 Thirty (30) Day Report for the AP1000 Standard Plant Design"

## Ladies and Gentlemen:

By letter dated July 28, 2008, Progress Energy Florida, Inc. (PEF) submitted an application for combined licenses (COLs) for proposed Levy Nuclear Power Plant Units 1 and 2 to the U.S. Nuclear Regulatory Commission (NRC) for two Westinghouse AP1000 reactor plants, in accordance with 10 CFR Part 52 (Reference 1). The purpose of this letter is to provide a required 30-day report in accordance with 10 CFR 50.46(a)(3)(ii), for the combined license application submitted for Levy Nuclear Power Plant (LNP) Units 1 and 2.

Pursuant to 10 CFR 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear power reactors," Westinghouse Electric Company (WEC) submitted a report (letter number DCP\_NRC\_002943 dated June 30, 2010) 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 cladding temperature (PCT) error assessed is greater than 50°F. The WEC letter transmitted 10 CFR 50.46 reporting information for errors discovered in the AP1000 Design Control Document (DCD) small-break loss of coolant accident (LOCA) analysis-of-record (AOR) for the Loss of Coolant Accident (LOCA) 10-inch Transient Adiabatic Heat-up Calculation. Details of the error and WEC actions to correct the error were provided in the above referenced WEC letter.

Progress Energy Florida, Inc. COL application for proposed LNP Units 1 and 2 incorporates by reference the AP1000 design control document (DCD), and thus, utilizes the peak cladding temperature calculations performed by WEC. Therefore, the WEC report is also applicable to the LNP Units 1 and 2 COL Application.



United States Nuclear Regulatory Commission NPD-NRC-2010-057 Page 2

If there are any questions regarding this report, please contact me at (919) 546-6992.

Sincerely,

Robert H. Kitchen

Manager-Nuclear Plant Licensing

New Generation Programs and Projects

cc: U.S. NRC Region II, Regional Administrator

Mr. Brian C. Anderson, U.S. NRC Project Manager