

PMTurkeyCOLPEm Resource

From: CHILDRESS, ELWOOD <ELWOOD.CHILDRESS@fpl.com>
Sent: Thursday, April 13, 2017 12:20 PM
To: Williamson, Alicia; Hughes, Brian; Haney, Catherine; Dixon-Herrity, Jennifer; Hoellman, Jordan; Burkhart, Lawrence; Comar, Manny; Orr, Dan; Pennicooke new, Denise; Maher, William
Subject: [External_Sender] Letter L-2017-064, 2016 - 2017 Model Year 10 CFR 50.46 Annual Report for the AP1000 Standard Plant Design
Attachments: L-2017-064 Final 10 CFR 50 46 Annual Report 2016-2017.pdf

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
2016 - 2017 Model Year 10 CFR 50.46 Annual
Report for the AP1000 Standard Plant Design

References:

1. FPL Letter L-2009-144 to the NRC dated June 30, 2009, Application for Combined License for Turkey Point Units 6 and 7
2. WEC Letter DCP NRC 003311 to the NRC dated March 28, 2017, 10 CFR 50.46 Annual Report for the AP1000 Standard Plant Design
3. WEC Letter DCP NRC 003207 to the NRC dated March 15, 2012, 10 CFR 50.46 Annual Report for the AP1000 Standard Plant Design
4. FPL Letter L-2011-529 to NRC dated December 16, 2011, Submittal of the Annual Update of the COL Application - Revision 3 and the Semi-Annual Update of the Departures Report

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, Florida on June 30, 2009 (Reference 1). The purpose of this letter is to provide a required report in accordance with 10 CFR 50.46 (a)(3), Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors.

Westinghouse Electric Corporation (WEC) submitted its 10 CFR 50.46 annual report (Reference 2) to the Nuclear Regulatory Commission (NRC) on March 28, 2017. As stated in the WEC Report (Reference 2), there are no emergency core cooling system (ECCS) model changes that impact peak cladding temperature (PCT) for the 2016 - 2017 model year. The estimated PCT for the best estimate large break loss of coolant accident (LBLOCA) remains at 2010°F and does not exceed the 10 CFR 50.46(b)(1) acceptance criterion of 2200°F. The summary of the PCT margin allocations and their bases are provided in the Attachment 1 of Reference 2.

On December 30, 2011, the NRC amended its regulations to certify an amendment to the Design Certification Rule for the AP1000. As such, AP1000 Design Control Document (DCD) Revision 19, now documents the analyses of record. Therefore, the WEC letter dated March 15, 2012, (Reference 3) updated the analyses of record based upon the AP1000 DCD Revision 19.

The FPL COL application (Reference 1) as updated by COL application - Revision 3 (Reference 4) incorporates by reference the AP1000 DCD, Revision 19 and thus, also the peak fuel cladding temperature calculations performed by WEC. Therefore, the WEC 10 CFR 50.46 annual report (Reference 2) is applicable to the Turkey Point Units 6 & 7 AP1000 COL application.

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From: CHILDRESS, ELWOOD

Created By: ELWOOD.CHILDRESS@fpl.com

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L-2017-064
10 CFR 52.3
10 CFR 50.46(a)(3)

April 13, 2017

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L-2017-064 Page 2

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If you have any questions, or need additional information, please contact me at 561-904-3793.

Sincerely,

A handwritten signature in cursive script that reads "Steve Franzone".

Steve Franzone
Licensing Manager – New Nuclear Projects

SMF/ETC

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 3 & 4