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Serial: NPD-NRC-2013-032  
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10 CFR 52, Appendix D, X.B

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

**LEVY NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 52-029 AND 52-030  
AP1000 COMBINED LICENSE APPLICATION DEPARTURE REPORT UPDATE**

Ladies and Gentlemen:

Progress Energy Florida, Inc. (PEF) submitted an application, dated July 28, 2008, for a combined license for two AP1000 passive pressurized water reactors to be located at a site in Levy County, Florida. Part 7 of the application is the "Departures and Exemption Requests."

The purpose of this letter is to provide an update to the report describing plant-specific departures from the AP1000 Design Control Document (i.e., Departures Report) as required by 10 CFR 52, Appendix D, paragraph X.B.1 and X.B.3.b.

There have been three changes to the departures contained in the Levy Nuclear Plant, Units 1 and 2 "Departures and Exemption Requests" identified in the most recent six-month reporting period.

If you have any further questions, or need additional information, please contact Bob Kitchen at (919) 546-6992, or me at (704) 382-9248.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on July 30, 2013.

Sincerely,

Christopher M. Fallon

DO94  
NRO

Enclosures:

1) Six Months Departure Report

cc:

U.S. NRC Region II, Regional Administrator  
Mr. Donald Habib, U.S. NRC Project Manager

**Enclosure 1 to Serial NPD-NRC-2013-032**

**Six Months Departure Report**

Enclosure 1  
LNP Units 1 and 2 Six Months Departure Report

Departure Number: LNP DEP 1.8-1

Title: Correction of an inconsistency in regulatory citation in an interface description

Activity Description:

The interface description in DCD Table 1.8-1 (Sheet 6 of 6), Item 13.1, is revised from "Features that may affect plans for coping with emergencies as specified in 10 CFR 50, Appendix O" to "The information pertaining to design features that affect plans for coping with emergencies in the operation of the reactor facility or a major portion thereof as specified in 10 CFR 52.137(a)(11)".

Correction of an inconsistency in regulatory citation in an interface description - DCD Tier 2 Table 1.8-1 (Sheet 6 of 6), Item 13.1, is changed to correct an inconsistency in the DCD. The DCD Item 13.1 references 10 CFR 50, Appendix O, for features that may affect plans for coping with emergencies as opposed to the Part 52 requirements contained in 10 CFR 52.137(a)(11).

Summary of Evaluation:

The correction of the reference in Appendix O does not result in a modification, addition to, or removal of a structure, system, or component (SSC) such that a design function is adversely affected, has no impact on plant operating procedures or a method of control that adversely affects a design function, does not result in an adverse change to a method of evaluation or use of an alternate method of evaluation, does not represent tests or experiments outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment.

This departure did not involve a change to Tier 1 information, Tier 2\* information or the Technical Specifications. A 10 CFR 50.59/10 CFR 52 Appendix D Section VIII review determined prior NRC approval is not required.



Enclosure 1  
LNP Units 1 and 2 Six Months Departure Report

Departure Number: LNP DEP 3.2-1

Title: Addition of downspouts to the condensate return portion of the Passive Core Cooling System

Activity Description:

Addition of downspouts to the condensate return portion of the Passive Core Cooling System - Modifications to the Polar Crane Girder (PCG), Internal Stiffener, and Passive Core Cooling System (PXS) gutter design were made. The fabrication holes at the top surface of the PCG and in the stiffener are blocked. A downspout piping network was added to collect and transport condensation from the PCG and stiffener to PXS Collection Boxes. Eight new PXS downspout screens were added at the entrance of each of the downspouts at the PCG and stiffener to prevent any larger debris from blocking the downspout piping.

Summary of Evaluation:

The proposed change does not involve a significant reduction in the margin of safety. The proposed change does not reduce the redundancy or diversity of any safety-related SSCs. The proposed changes increase the amount of condensate available in the IRWST after the initiation of a design basis event.

The Addition of downspouts to the condensate return portion of the Passive Core Cooling System does not result in an adverse effect as a modification, addition to, or removal of a structure, system, or component (SSC), and has no adverse impact on plant operating procedures or a method of control, and does not result in an adverse effect on a change or a method of evaluation, or use of an alternate method of evaluation. This activity does not represent a test or experiment outside the reference bounds of the design basis, and does not alter the assumptions or results of the ex-vessel severe accident assessment. Therefore, this departure has no safety significance.

In conclusion, based on the considerations discussed above, 1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, 2) such activities will be conducted in compliance with the Commission's regulations, and 3) the implementation of the change will not be inimical to the common defense and security or to the health and safety of the public.

This departure requires an exemption from the requirements of 10 CFR Part 52, Appendix D, Section III.B, which requires compliance with Tier 1 requirements of the AP1000 DCD. Therefore, an exemption is requested in Part B of this COL Application Part.

Enclosure 1  
LNP Units 1 and 2 Six Months Departure Report

Departure Number: LNP DEP 3.11-1

Title: Revision of "Envir. Zone" numbers for Spent Fuel Pool Level instruments

Activity Description:

Revision of "Envir. Zone" numbers for Spent Fuel Pool Level instruments - DCD Table 3.11-1 (Sheet 14 of 51) "Envir. Zone" numbers for Spent Fuel Pool Level instruments SFS-JE-LT019A, SFS-JE-LT019B, and SFS-JE-LT019C are changed to correct an inconsistency in the DCD. All 3 instruments currently have an Environmental Zone number of 11. SFS-JE-LT019A is changed to Envir. Zone 6, SFS-JE-LT019B is changed to Envir. Zone 7 and SFS-JE-LT019C is changed to Envir. Zone 6 in DCD Table 3.11-1 (Sheet 14 of 51).

Summary of Evaluation:

This Tier 2 departure revises SFS-JE-LT019A Envir. Zone from 11 to 6, SFS-JE-LT019B Envir. Zone from 11 to 7, and SFS-JE-LT019C Envir. Zone from 11 to 6 in DCD Table 3.11-1 (Sheet 14 of 51). This departure does not result in any adverse effects to the SFP level indication design function and does not change the environmental qualification methodology.

In conclusion, based on the considerations discussed above, 1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, 2) such activities will be conducted in compliance with the Commission's regulations, and 3) the implementation of the change will not be inimical to the common defense and security or to the health and safety of the public.

This departure does not affect resolution of a severe accident issue identified in the plant-specific DCD. Therefore, this departure has no safety significance. This departure did not involve a change to Tier 1 information, Tier 2\* information or the Technical Specifications. Therefore, this departure does not require prior NRC approval pursuant to 10 CFR Part 52, Appendix D, Section VIII.B.5.