

February 9, 2016

MEMORANDUM TO: John McKirgan, Branch Chief
Licensing Branch 4
Division of New Reactor Licensing
Office of New Reactors

FROM: John Segala, Branch Chief **/RA/**
Containment and Ventilation Branch
Division of Safety Systems and Risk Assessment
Office of New Reactors

Jim Xu, Branch Chief **/RA/**
Structural Engineering Branch
Division of Engineering and Infrastructure and Advance Reactors
Office of New Reactors

SUBJECT: STAFF INPUT FOR SECTION 21.4 OF SAFETY EVALUATION ON
FSAR FOR LEVY NUCLEAR PLANT UNITS 1 AND 2

By letter NPD-NRC-2016-001, dated January 6, 2016, Duke Energy Florida (DEF) requested an exemption pertaining to the ITAAC in the AP1000 DCD Tier 1 Table 2.3.9-3 item 3, reflect the actual design location distances of the PXS-A vents to the core makeup tank room. DEF also requested departures for corresponding changes to the Tier 2, Subsection 6.2.4.5.1, "Preoperational Inspection and Testing for the Hydrogen Ignition Subsystem" and Tier 2, Subsection 19.41.7, "Diffusion Flame Analysis". This section of the SER evaluates the containment survivability and confirms that the containment integrity is maintained when challenged by a diffusion flame hydrogen burn in these containment compartments.

The Containment and Ventilation Branch and the Structural Engineering Branch, have reviewed the applicant's proposed changes and find them acceptable as stated in the enclosed advanced safety evaluation report input. The staff's review in the attached safety evaluation pertain only to the design changes referenced above, and is reflected in Section 21.4 of the advanced safety evaluation.

Enclosure: As stated

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