



Nuclear Development

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o:

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  
BASIS FOR DEFERRAL OF ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
SUBCOMMITTEE HEARING ON CONTAINMENT CONDENSATE RETURN COOLING  
DESIGN**

Ladies and Gentlemen:

The Advisory Committee on Reactor Safeguards (ACRS) Subcommittee was scheduled to review changes to the Levy COLA regarding the **AP1000** Containment Condensate Return Cooling Design on September 23, 2015. Duke Energy Florida (DEF) requested deferral of this ACRS review and the NRC plans to reschedule ACRS review in early 2016.

Proposed changes to the Levy Combined License Application (COLA) reflecting containment condensate return cooling design changes state that the passive residual heat removal heat exchanger (PRHR HX), in conjunction with the in-containment refueling water storage tank, the condensate return features and the passive containment cooling system, has the capability to maintain the reactor coolant system (RCS) in the long term safe shutdown condition of less than 420°F for at least 14 days in a closed loop mode of operation. This safe shutdown condition can be maintained by the PRHR HX for greater than 14 days based on a non-bounding, conservative analysis that only credits using safety-related equipment.

The supporting analysis for this performance requirement only considered adiabatic conditions. Westinghouse Electric Company, LLC (WEC) sensitivity studies have challenged the appropriateness of the adiabatic assumption. DEF notified NRC of this uncertainty and recommended that the ACRS Subcommittee review be delayed until evaluations were complete to confirm the long-term, closed loop operation of PRHR. WEC is developing an engineering basis document to address PRHR performance when RCS heat losses are considered. DEF and APOG review of this document will be completed and a submittal to provide supplemental information regarding this issue is expected in early November 2015. This submittal will identify changes to the Levy COLA, if required, to enable completion of NRC review.

If you have any further questions, or need additional information, please contact me at (704) 382-4046.

Sincerely,

Robert H. Kitchen  
Director – Nuclear Development Licensing

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