Progress Energy

Serial: NPD-NRC-2009-190
August 24, 2009

10CFR52.79

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
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 061 RELATED TO WIND LOADING

Reference: Letter from Chandu P. Patel (NRC) to Garry Miller (PEF), dated June 26, 2009, "Request for Additional Information Letter No. 061 Related to SRP Section 3.3.1 for the Levy County Nuclear Plant, Units 1 and 2 Combined License Application"

Ladies and Gentlemen:

Progress Energy Florida, Inc. (PEF) hereby submits our response to the Nuclear Regulatory Commission's (NRC) request for additional information provided in the referenced letter. A response to the NRC request is addressed in the enclosure.

If you have any further questions, or need additional information, please contact Bob Kitchen at (919) 546-6992, or me at (919) 546-6107.

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

Executed on August 24, 2009.

Sincerely,

Garry D. Miller
General Manager
Nuclear Plant Development

Enclosure

cc : U.S. NRC Region II, Regional Administrator
Mr. Brian C. Anderson, U.S. NRC Project Manager

Progress Energy Florida, Inc.
P.O. Box 14042
St. Petersburg, FL 33733

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NRO

Levy Nuclear Plant Units 1 and 2
Response to NRC Request for Additional Information Letter No. 061 Related to SRP Section 3.3.1 for the Combined License Application, dated June 26, 2009

NRC RAI #	Progress Energy RAI #	Progress Energy Response
03.03.01-1	L-0427	Response enclosed – see following pages

NRC Letter No.: LNP-RAI-LTR-061

NRC Letter Date: June 26, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 03.03.01-1

Text of NRC RAI:

General Design Criteria (GDC) 2 in 10 CFR 50 App A requires the applicant to consider the effects of the most severe of the natural phenomena historically reported.

RAI 2.3.1-8 requested that the applicant explain why the basic wind speed did not consider the most severe hurricanes historically reported. In its response, the applicant stated that the 3-second gust wind speed will be changed from 139 mph to 185 mph. The 185 mph wind speed exceeds the AP1000 design value of 145 mph. Present the technical basis for compliance with AP1000 DCD and GDC 2.

PGN RAI ID #: L-0427

PGN Response to NRC RAI:

Progress Energy has revisited the evaluation for the design basis wind speed for the LNP site that was provided in the response to FSAR RAI 02.03.01-8. Based on this review, Progress Energy has submitted a revised response to FSAR RAI 02.03.01-8 to better reflect the maximum historical hurricane wind speeds in the vicinity of the site (see letter dated August 19, 2009; Serial: NPD-NRC-2009-188).

Based on the supplemental response to FSAR RAI 02.03.01-8 and the associated revisions to the FSAR, the 50 year wind speed is 120 mph and the 100 year wind speed is 128 mph based on ASCE/SEI 7-05. However, consistent with SRP 3.3.1 and 10 CFR 50, Appendix A, General Design Criterion (GDC) 2, the most severe wind that has been historically reported for the site and surrounding area is 144 mph. This was observed during Hurricane Charley on August 13, 2004. This is bounded by AP1000 DCD Rev. 17, Subsection 3.3.1.1 "Design Wind Velocity" of 145 miles per hour.

Associated LNP COL Application Revisions:

No COLA changes have been identified associated with this response.

Attachments/Enclosures:

None.