Progress Energy

Serial: NPD-NRC-2009-058
April 6, 2009

10CFR52.79

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

LEVY NUCLEAR POWER PLANT, UNITS 1 AND 2
DOCKET NOS. 52-029 AND 52-030
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 017 RELATED TO ONSITE METEOROLOGICAL MEASUREMENTS PROGRAMS

Reference: Letter from Brian C. Anderson (NRC) to Garry Miller (PEF), dated March 6, 2009, "Request for Additional Information Letter No. 017 Related to SRP Section 2.3.3 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. The enclosure also identifies changes that will be made in a future revision of the Levy Nuclear Power Plant Units 1 and 2 application.

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 April 6, 2009.

Sincerely,

Garry D. Miller
General Manager
Nuclear Plant Development

Enclosure

cc : U.S. NRC Director, Office of New Reactors/NRLPO
U.S. NRC Office of Nuclear Reactor Regulation/NRLPO
U.S. NRC Region II, Regional Administrator
Mr. Brian C. Anderson, U.S. NRC Project Manager

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Levy Nuclear Power Plant Units 1 and 2
Response to NRC Request for Additional Information Letter No. 017 Related to SRP Section 2.3.3 for the Combined License Application, dated March 6, 2009

NRC RAI #	Progress Energy RAI #	Progress Energy Response
02.03.03-1	L-0031	Response enclosed – see following pages
02.03.03-2	L-0032	Response enclosed – see following pages
02.03.03-3	L-0033	Response enclosed – see following pages
02.03.03-4	L-0034	Response enclosed – see following pages

NRC Letter No.: LNP-RAI-LTR-017

NRC Letter Date: March 06, 2009

NRC Review of Final Safety Analysis Report

NRC RAI #: 02.03.03-1

Text of NRC RAI:

Please state in FSAR Section 2.3.3 how often the guyed wires, as part of the guyed tower, and tower anchors are inspected.

PGN RAI ID #: L-0031

PGN Response to NRC RAI:

The guy wires and the tower anchors are inspected for safety and integrity on an annual basis. A statement to this effect will be included in a future amendment to FSAR Subsection 2.3.3.

Associated LNP COL Application Revisions:

The following bullet will be added to FSAR Subsection 2.3.3.1.4 "Maintenance and Calibration":

- The guy wires and the tower anchors are inspected on an annual basis.

Attachments/Enclosures:

None.

NRC Letter No.: LNP-RAI-LTR-017

NRC Letter Date: March 06, 2009

NRC Review of Final Safety Analysis Report

NRC RAI #: 02.03.03-2

Text of NRC RAI:

Please provide the digital sampling rate of meteorological data as part of the preoperational and operational onsite meteorological measurements program in FSAR Section 2.3.3.1.5.

PGN RAI ID #: L-0032

PGN Response to NRC RAI:

The digital sampling rate of the instrumentation is discussed in FSAR Table 2.3.3-202 "LNP Meteorological Monitoring Tower Accuracy of Monitored Parameters." The digital sampling rate of the datalogger is at least once every 5 seconds, consistent with NRC Regulatory Guide 1.23, Rev.1 guidance. The operational onsite meteorological measurements program is planned to continue with the current sampling rate.

Associated LNP COL Application Revisions:

None.

Attachments/Enclosures:

None.

NRC Letter No.: LNP-RAI-LTR-017

NRC Letter Date: March 06, 2009

NRC Review of Final Safety Analysis Report

NRC RAI #: 02.03.03-3

Text of NRC RAI:

Regulatory Guide 1.206, Section C.I.2.3.3 states that a COL applicant should describe both the preoperational and operational programs for meteorological measurements at the site. It further states that Regulatory Guide 1.23 contains guidance on acceptable onsite meteorological programs and any deviations from the guidance provided should be identified and justified. Currently, FSAR Section 2.3.3 doesn't differentiate from the preoperational and planned operational meteorological programs. Please describe the aspects of both programs separately as part of FSAR Section 2.3.3.

PGN RAI ID #: L-0033

PGN Response to NRC RAI:

The planned operational meteorological monitoring program will be a continuation of the existing program described in FSAR Section 2.3.3, with the possible exception of routine equipment upgrades that periodically occur when older equipment is replaced with more current and typically more accurate or reliable equipment or components. Given that the existing program is planned to be continued during operation, both programs were described jointly.

Associated LNP COL Application Revisions:

The following paragraph will be added after the second paragraph of FSAR Subsection 2.3.3:

"The planned operational meteorological monitoring program will be a continuation of the pre-operational program. The pre-operational meteorological program for LNP 1 and LNP 2 meets the guidance provided in RG 1.23, Rev. 1. The pre-operational monitoring program for LNP 1 and LNP 2 is planned to be continued as the operational program for both units. Given that the existing program is planned to be continued during operation, both programs are described jointly in the following sections."

Attachments/Enclosures:

None.

NRC Letter No.: LNP-RAI-LTR-017

NRC Letter Date: March 06, 2009

NRC Review of Final Safety Analysis Report

NRC RAI #: 02.03.03-4

Text of NRC RAI:

Submit an electronic copy of the complete 2-year onsite hourly meteorological database. Also submit an appendix to the FSAR containing the following derived from the second year of onsite hourly meteorological data:

(1) joint frequency distributions of wind speed, wind direction, and atmospheric stability for both the lower and upper levels

(2) atmospheric dispersion and deposition factors presented in FSAR Sections 2.3.4 and 2.3.5.

This appendix should also demonstrate how representative the first year of data is of long-term conditions at the site. If the appendix cannot show that the two years of meteorological data are compatible (e.g., there are substantial differences in atmospheric dispersion and deposition factors between the two years of data) and the first year of data is shown to be non-conservative, revise the atmospheric dispersion and deposition factors presented in FSAR Sections 2.3.4 and 2.3.5 using the second year of meteorological data.

PGN RAI ID #: L-0034

PGN Response to NRC RAI:

PEF submitted the first year of meteorological data collected at the LNP site (February 1, 2007 – January 31, 2008) on July 28, 2008 (Letter Serial No. NPD-NRC-2008-021). The second year of meteorological data collected at the LNP site (February 1, 2008 – January 31, 2009) was submitted to the NRC on March 17, 2009 (Letter Serial No. NPD-NRC-2009-036).

Since PEF only completed the collection of the second year of meteorological data on January 31, 2009, the additional information being requested in this RAI (revised joint frequency distributions and atmospheric dispersion factors) will be provided in a supplemental submittal to this RAI for the full 2 years of meteorological data, consistent with the guidance provided in the Standard Review Plan (NUREG-0800). The supplemental submittal to this RAI will be provided by July 31, 2009. Once this information has been developed, it will also be incorporated into a future amendment of the FSAR.

Associated LNP COL Application Revisions:

The specific revisions to FSAR Section 2.3 and ER 2.7 will be described in the supplemental submittal to this RAI.

Attachments/Enclosures:

None.