



**Progress Energy**

Serial: NPD-NRC-2009-204

10CFR52.79

September 14, 2009

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. 065 RELATED TO  
ONSITE METEOROLOGICAL MEASUREMENTS PROGRAMS**

Reference: Letter from Brian C. Anderson (NRC) to Garry Miller (PEF), dated August 25, 2009,  
"Request for Additional Information Letter No. 065 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. Input and output files associated with the ARCON modeling analysis are provided on the attached CD.

The supplemental information contained in the files on the attached CD is provided to support the NRC's review of the LNP COL application but does not comply with the requirements for electronic submission. The NRC staff requested the files be submitted in their native formats, required for utilization in the software employed to support the COL application development. PEF understands that converting the information to PDF output files would not serve the underlying purpose of the submittal; i.e., to provide the raw, unprocessed data to enable reviewers to evaluate software used in the LNP 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 September 14, 2009.

Sincerely,

Garry D. Miller  
General Manager  
Nuclear Plant Development

Enclosure/Attachment

cc: U.S. NRC Region II, Regional Administrator (without attached CD)  
Mr. Brian C. Anderson, U.S. NRC Project Manager (with 3 copies of attached CD)

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

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MRO

**Levy Nuclear Plant Units 1 and 2**  
**Response to NRC Request for Additional Information Letter No. 065 Related to**  
**SRP Section 2.3.3 for the Combined License Application, dated August 25, 2009**

<u>NRC RAI #</u>	<u>Progress Energy RAI #</u>	<u>Progress Energy Response</u>
02.03.03-6	L-0532	Response enclosed – see following pages

**NRC Letter No.:** LNP-RAI-LTR-065

**NRC Letter Date:** August 25, 2009

**NRC Review of Final Safety Analysis Report**

**NRC RAI #:** 02.03.03-6

**Text of NRC RAI:**

Supplemental response to RAI 2.3.3-4 (letter dated July 22, 2009) included updated text and tables for FSAR Sections 2.3.2, 2.3.4, and 2.3.5. Please provide sufficient information, including an electronic copy of the input and output files for the updated model runs of ARCON, PAVAN, and XOQDOQ, to allow the staff to perform its own confirmatory calculations. Also, provide a discussion on any significant assumptions that were made when running the models.

**PGN RAI ID #:** L-0532

**PGN Response to NRC RAI:**

Progress Energy previously submitted the requested input and output files for the XOQDOQ and PAVAN analyses. All information was provided to NRC via the following correspondence:

PGN Letter No. NPD-NRC-2009-074 (dated April 17, 2009) transmitted the XOQDOQ input and output files that are associated with the analysis of two years of onsite meteorological data for the period February 1, 2007 to January 31, 2009. There is no calculation package for this analysis, and all input data, assumptions, and results are contained within the input/output files.

PGN Letter No. NPD-NRC-2009-113 (dated June 23, 2009) transmitted the PAVAN input and output files that are associated with the analysis of two years of onsite meteorological data for the period February 1, 2007 to January 31, 2009. Calculation No. LNG-0000-GLC-002 summarizes the PAVAN modeling methodology, analysis and assumptions. This calculation package is available in the Progress Energy-provided reading room.

Progress Energy is providing the requested input and output files associated with the ARCON modeling analysis as an attachment to this RAI response.

Attachment 1 of this response contains the ARCON input and output files that are associated with the X/Q control room analysis using two years of onsite meteorological data for the period February 1, 2007 to January 31, 2009. The calculation, LNG-VES-GEC-001, Rev. 5, summarizes the ARCON modeling methodology, analysis, and assumptions.

The ARCON calculation package for the analysis is available in the Progress Energy-provided reading room.

Regarding NRC's request for a discussion on any significant assumptions that were made when running the models, all associated assumptions used in the analyses are described or otherwise contained in the relevant sections of the FSAR, provided calculation packages, or in the modeling output files.

**Associated LNP COL Application Revisions:**

No COLA changes were identified associated with this response.

**Attachments/Enclosures:**

The following electronic files are provided on the Attachment 1 CD-ROM:

ARCON96 Input File – Meteorological Data

<u>File Name</u>	<u>Description</u>
L2YA96MPH.met	Onsite Meteorological Data (2/1/07–1/31/09)

ARCON96 Input Files - Control Room HVAC Intake Receptor

<u>File Name</u>	<u>Description</u>
L1CRR5.rsf	Plant Vent
L2CRR5.rsf	PCS Air Diffuser
L3CRR5.rsf	Fuel Building Blowout Panel
L4CRR5.rsf	Radwaste Building Truck Staging Area Door
L5CRR5.rsf	Steam Vent
L6CRR5.rsf	PORV and Safety Valve Releases
L7CRR5.rsf	Condenser Air Removal Stack
L8CRR5.rsf	Containment Shell

ARCON96 Output Files - Control Room HVAC Intake Receptor

<u>File Name</u>	<u>Description</u>
L1CRR5.log	Plant Vent
L2CRR5.log	PCS Air Diffuser
L3CRR5.log	Fuel Building Blowout Panel
L4CRR5.log	Radwaste Building Truck Staging Area Door
L5CRR5.log	Steam Vent
L6CRR5.log	PORV and Safety Valve Releases
L7CRR5.log	Condenser Air Removal Stack
L8CRR5.log	Containment Shell

ARCON96 Input Files - Annex Building Door Receptor

<u>File Name</u>	<u>Description</u>
L1ABR5.rsf	Plant Vent
L2ABR5.rsf	PCS Air Diffuser
L3ABR5.rsf	Fuel Building Blowout Panel
L4ABR5.rsf	Radwaste Building Truck Staging Area Door
L5ABR5.rsf	Steam Vent
L6ABR5.rsf	PORV and Safety Valve Releases
L7ABR5.rsf	Condenser Air Removal Stack
L8ABR5.rsf	Containment Shell

ARCON96 Output Files - Annex Building Door Receptor

<u>File Name</u>	<u>Description</u>
L1ABR5.log	Plant Vent
L2ABR5.log	PCS Air Diffuser
L3ABR5.log	Fuel Building Blowout Panel
L4ABR5.log	Radwaste Building Truck Staging Area Door
L5ABR5.log	Steam Vent
L6ABR5.log	PORV and Safety Valve Releases
L7ABR5.log	Condenser Air Removal Stack
L8ABR5.log	Containment Shell