



**James Scarola**  
Senior Vice President and Chief Nuclear Officer  
Progress Energy Carolinas, Inc.

Serial: NPD-NRC-2008-021  
July 28, 2008

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

**Subject: Supplemental Meteorological Data in Support of Combined License Application for Levy Nuclear Power Plant Units 1 and 2 NRC Project Number 756**

**Reference: Application for Combined License for Levy Nuclear Power Plant Units 1 and 2**

In the referenced letter, Progress Energy Florida, Inc. (PEF) submitted an application for a combined construction and operating license (COL) for Levy Nuclear Power Plant Units 1 and 2 (LNP 1 and 2) located in Levy County, FL. That submittal consisted of ten parts, as described in the referenced letter, and an additional part containing Safeguards Information provided under separate cover.

In addition to the contents of the application itself, PEF is also providing the enclosed supplemental information in support of the review of the LNP 1 and 2 COL application. The enclosed CD-ROM contains the following onsite meteorological data that was used in support of the COL application:

- One year of hourly on-site data in a formatted, sequential access, ASCII text data file, pursuant to the guidance in Appendix A of Regulatory Guide 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants," Revision 1. The file includes data for the period February 1, 2007 – January 31, 2008. The same information is also provided in "pdf" format
- One year of hourly data in ARCON model input format, with data for the period February 1, 2007 - January 31, 2008. This data was used in the prediction of control room diffusion estimates as described in FSAR Section 2.3.4.4. The same information is also provided in "pdf" format.
- One year of hourly data in MACCS2 model input format, with data for the period February 1, 2007 – January 31, 2008. This data was used in the severe accident analysis described in ER Section 7.2.5. The same information is also provided in "pdf" format.

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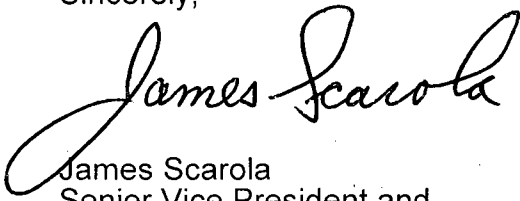
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If you have any questions, or need additional information, please contact Bob Kitchen at (919) 546-6992 or Garry Miller at (919) 546-6107.

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

Executed on July 28, 2008.

Sincerely,

A handwritten signature in black ink that reads "James Scarola". The signature is written in a cursive style with a large, sweeping initial "J".

James Scarola  
Senior Vice President and  
Chief Nuclear Officer

Enclosure

c (w/o enclosure): 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

bc : Bill Johnson, Chairman, President and CEO  
Daniel Roderick, VP-Nuclear Projects & Construction  
Garry Miller, General Manager-Nuclear Plant Development  
Robert Kitchen, Manager-Nuclear Plant Licensing  
Paul Fulford, Manager-PE&RAS  
John O'Neill, Jr. (Pillsbury Winthrop Shaw Pittman, LLP)

File: NGG-NPD (Betsy Cox)