



Serial: NPD-NRC-2009-117
June 23, 2009

10 CFR 52.79

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

**LEVY COUNTY NUCLEAR POWER PLANT, UNITS 1 AND 2
DOCKET NOS. 52-029 AND 52-030
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 054 RELATED TO
TURBINE BUILDING CLOSED COOLING WATER SYSTEM**

Reference: Letter from Tanya Simms (NRC) to Garry Miller (PEF), dated June 4, 2009,
"Request for Additional Information Letter No. 054 Related to SRP Section 09.02.02
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 June 23, 2009.

Sincerely,

A handwritten signature in black ink, appearing to read "Garry D. Miller".

Garry D. Miller
General Manager
Nuclear Plant Development

Enclosure

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

United States Nuclear Regulatory Commission
NPD-NRC-2009-117
Page 2

bcc: John Elnitsky, VP-Nuclear Plant Development
Robert Kitchen, Manager-Nuclear Plant Licensing
Tillie Wilkins, NPD-Licensing
John O'Neill, Jr. (Pillsbury Winthrop Shaw Pittman, LLP)
A. K. Singh (Sargent & Lundy, LLC)
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Lorin Young (CH2M HILL)
John Archer (WorleyParsons)
NPD Document Control Inbox (Records: Correspondence)
File: NGG-NPD (Dawn Bisson)

**Levy Nuclear Power Plant Units 1 and 2
Response to NRC Request for Additional Information Letter No. 054 Related to
SRP Section 09.02.02 for the Combined License Application, dated June 4, 2009**

<u>NRC RAI #</u>	<u>Progress Energy RAI #</u>	<u>Progress Energy Response</u>
09.02.02-1	L-0426	Response enclosed – see following page

NRC Letter No.: LNP-RAI-LTR-054

NRC Letter Date: June 4, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 09.02.02-01

Text of NRC RAI:

Levy COL Application FSAR section 9.2.8 TCS, Piping, states the following: "System piping is made of carbon steel. Piping and connections are welded, except where flange connections are used for accessibility and maintenance of components. Nonmetallic piping may be used in accordance with ASME B31.1 and as demonstrated by evaluation."

ASME B31.1 Appendix III states that nonmetallic piping is limited to 140 F and 150 PSI in water service application.

Please, provide information on whether the use of nonmetallic piping will be within these limits.

PGN RAI ID #: L-0426

PGN Response to NRC RAI:

The Turbine Building Closed Cooling Water System, TCS, is a standard plant AP1000 system that was reviewed during the AP1000 certification. The application of nonmetallic piping in the TCS is under the design authority of Westinghouse.

Westinghouse Technical Report TR-103 (APP-GW-GLN-019), "Fluid System Changes" provides the following information on page 21 of 154 which addresses this RAI:

"As far as application to AP1000 systems, HDPE [High Density Polyethylene] may be used for systems and system areas of low pressure and low temperature. Based on manufacturer's recommendations, HDPE will be used in systems with pressures up to 150 psi (1,000 kPa) and temperatures up to 140F (60C) for water services. Pressure and temperature limits for other services shall be based on the hazards involved, but in no application shall they exceed 150 psi (1,000 kPa) and 140F (60C)."

References:

None

Associated LNP COL Application Revisions:

No COLA revisions have been identified associated with this response.

Attachments/Enclosures:

None