



Serial: NPD-NRC-2009-054
April 1, 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
DOCKETS NOS. 52-029 AND 52-030
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 014
RELATED TO POTENTIAL RECIRCULATION PATHWAY**

Reference: Letter from Brian Anderson (NRC) to Garry Miller (PEC), dated March 3, 2009,
"Request for Additional Information Letter No. 014 Related to SRP Section 11.2 the
Levy Nuclear Power 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 that no changes will be needed 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 1, 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 Anderson, U.S. NRC Project Manager

**Levy Nuclear Power Plant, Units 1 and 2
Response to NRC Request for Additional Information Letter No. 014 Related to SRP
Section 11.2 for the Levy Nuclear Power Plant, Units 1 and 2 Combined License
Application, Dated March 3, 2009**

<u>NRC RAI #</u>	<u>Progress Energy RAI #</u>	<u>Progress Energy Response</u>
11.02-3	L-0060	Response enclosed – see following pages

NRC Letter No.: LNP-RAI-LTR-014

NRC Letter Date: March 3, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 11.02-3

Text of NRC RAI:

In the course of an Environmental Audit site visit, it was identified that periodically elevated levels of tritium from the Crystal River 3 (CR-3) discharge have been detected in the CR-3 intake canal water for samples collected as part of the routine radiological environmental monitoring program at CR-3. This situation indicates a potential recirculation pathway that needs to be considered (10CFR50 Appendix I compliance) for the discharge of Levy County liquid releases, since Levy County discharge is via the CR-3 discharge structure/canal. Please provide an evaluation of this potential recirculation pathway and provide additional information, as applicable, for the impact this recirculation path could have on potential doses from liquid effluents.

PGN RAI ID #: L-0060

PGN Response to NRC RAI

The existence of a recirculation path would not have an effect on the calculated doses from LNP liquid effluents or compliance with 10CFR50, Appendix I.

The calculated doses from LNP liquid effluents are provided in LNP FSAR section 11.2. Consistent with 10CFR50 Appendix I, the calculated doses are annual doses (mrem/yr) based on the total estimated annual LNP liquid curie discharge. Since the entire annual LNP release is used to determine the LNP dose contribution to the public, the only potential effect, if some of the discharge were diverted back into CR-3 via the intake canal water, would be to reduce the LNP calculated doses to the public.

Associated HAR COL Application Revisions:

No revisions required to the COLA application.