



Serial: NPD-NRC-2009-029
February 19, 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. 006 RELATED TO
FIRE PROTECTION PROGRAM**

Reference: Letter from Tanya Simms (NRC) to Garry Miller (PEF), dated January 22, 2009,
"Request for Additional Information Letter No. 006 Related to SRP Section
09.05.01 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 a
change 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 February 19, 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

**Levy Nuclear Power Plant Units 1 and 2
Response to NRC Request for Additional Information Letter No. 006 Related to
SRP Section 09.05.01 for the Combined License Application, dated January 22, 2009**

<u>NRC RAI #</u>	<u>Progress Energy RAI #</u>	<u>Progress Energy Response</u>
09.05.01-1	L-0020	Response enclosed – see following page

NRC Letter No.: LEVY-RAI-LTR-006

NRC Letter Date: January 22, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 09.05.01-1

Text of NRC RAI:

RG 1.206, Regulatory Position C.III.1, Section C.I.9.5.1.1 identifies that the applicant should provide site specific information on the fire water supply system. RG 1.189 states that fire water supply should be filtered and treated as necessary to prevent or control bio-fouling or microbiologically-induced corrosion of the fire water system. The Levy COLA identifies raw groundwater is used for makeup to the fire protection system fire water storage tank. As such, the applicant should describe the program to monitor and maintain an acceptable level of quality of the fire water source.

PGN RAI ID #: L-0020

PGN Response to NRC RAI:

As described in FSAR Subsection 9.2.11, the normal makeup to the fire protection system fire water storage tanks is the fresh water portion of the Raw Water System (RWS). The source of water for the fresh water portion of the RWS is groundwater. Media filters are provided to remove suspended solids from the fresh water portion of the RWS system. Four media filters are provided (FSAR Subsection 9.2.11.2.2.1), with each nominally sized for 50% of the required raw water flow.

A Chemical injection point will be incorporated into the RWS makeup to the FPS tanks. The injection location will be upstream of the FPS AP1000 standard plant interface. The chemical treatment will be sodium hypochlorite.

Effectiveness of the treatment will be monitored by periodic sample inspections of the wetted portions of the FPS headers.

Associated LNP COL Application Revisions:

The following change will be made to the LNP FSAR in a future revision:

Add the following sentences as the second paragraph of FSAR Subsection 9.2.11.3.1:

“Chemical injection points are provided to treat raw water supply to the FPS fire water storage tanks with sodium hypochlorite. Effectiveness of the treatment is monitored by periodic sample inspections of the wetted portions of the FPS headers.”

Attachments/Enclosures:

None.