



June 15, 2005

L-2005-128  
10 CFR 50.36b  
10 CFR 50.4  
EPP 3.2.4

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Re: St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
Industrial Wastewater Facility Permit Application – Proposed Amendment

Attached is an information copy of a proposed amendment to the Florida Industrial Waste Water Facility Permit (FL0002208) application, which was submitted to the State of Florida Department of Environmental Protection on May 17, 2005. This proposed amendment to the application is being sent pursuant to Section 3.2.4 of the St. Lucie Units 1 and 2 Environmental Protection Plans.

A copy of the Florida Industrial Waste Water Facility Permit application was submitted to the NRC by FPL letter L-2004-147 on July 6, 2004.

Should you have any questions, please contact George Madden at (772) 467-7155.

Very truly yours,

A handwritten signature in black ink, appearing to read "WJ", is written over the closing text.

William Jefferson, Jr.  
Vice President  
St. Lucie Plant

WJ/GRM

Attachment

*Cool*



**FPL**

May 17, 2005

Allen Hubbard, P.E.  
Industrial Wastewater Section  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: FPL – St. Lucie Plant  
State IWW Permit # FL0002208  
Amendment to Application

Dear Mr. Hubbard:

On June 28, 2004, Florida Power and Light Company's (FPL) St. Lucie Plant submitted a renewal application for its State Industrial Wastewater (IWW) Permit (Permit #FL0002208). On that application, we stated that we did not request a mixing zone under Rule 62-4.244, F.A.C. Subsequent conversation with you and Douglas Gilbert of the FDEP Water Assessment group, as well as a review of the plant's historical files, has caused us to reevaluate that response. The facility's Power Plant Act "Conditions of Certification" (PA-74-02), Special Condition II.A.2. contains the following language,

"2. Thermal Mixing Zone

The heated water discharged from the multiport diffuser shall not exceed 17°F above ambient outside of a thermal mixing zone of 10.7 acre-feet. The mixing zone shall be bounded by an area 1385.5 feet long extending seaward from the most landward discharge port, 21.0 feet to either side of the discharge pipe axis and 8.0 feet in height above the bottom of the discharge ports."

This exact language has been in the Conditions of Certification since December 7, 1981, with other mixing zone language preceding that, but for various reasons, was never included in the EPA issued NPDES permits or the subsequent versions of the State IWW permit.

Therefore, we would like to amend the previously submitted application to request a thermal mixing zone for the multi-port diffuser. In addition, we would also like to request a thermal mixing zone for the "Y-Port" diffuser that was originally built when Unit 1 was put into service.

Based on our review of this issue, as well as conversations with you and Doug Gilbert, FPL respectfully requests that you do include this mixing zone language in our renewed permit. We submitted all of the information required to "justify" the size and location of the mixing zone(s) in correspondence dated September 8, 2004 and December 9, 2004. It is our understanding that both DEP's Water Assessment and Industrial Wastewater Permitting Groups agree that the issuance of these mixing zones would be appropriate.

Sincerely,

William Jefferson Jr.  
Site Vice President  
St. Lucie Nuclear Plant  
vpps1015  
BJ:ljw