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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
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 AUTH: NAME AUTHOR AFFILIATION
 SAGER, D.A. Florida Power & Light Co.
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SUBJECT: Lists changes or errors identified during period
 930101-1231 for limiting ECCS event at Units 1 & 2. Analysis
 performed by Siemens & CE.

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February 28, 1994

L-94-52
10 CFR 50.46

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
10 CFR 50.46, "Acceptance Criteria for
Emergency Core Cooling Systems in Light
Water Nuclear Power Reactor" - Annual Report

Florida Power and Light (FPL) Company has completed the review of information necessary to comply with the 10CFR50.46 annual reporting requirements for St. Lucie Units 1 and 2. The changes or errors listed below were identified during the period of January 1, 1993 to December 31, 1993 for the limiting Emergency Core Cooling System (ECCS) events at either St. Lucie Unit 1 or 2.

The St. Lucie Unit 1 and 2 ECCS analyses are performed by Siemens Power Corporation (SPC) and ABB-Combustion Engineering (ABB/CE). As in the last reporting period, the vendor which holds the Analyses of Record (AOR) is:

St. Lucie Unit 1
Small Break LOCA - ABB/CE
Large Break LOCA - SPC

St. Lucie Unit 2
Small Break LOCA - ABB/CE
Large Break LOCA - ABB/CE

The St. Lucie Unit 1 Large Break and Small Break LOCA were re-analyzed during the current report period by Siemens Power Corporation to support operation with 25% steam generator tube plugging. The peak clad temperature decreased by 32°F to 1912°F for the Large Break LOCA. The methodology supporting the Small Break LOCA is new and currently under review by the NRC. The peak clad temperature for the Small Break LOCA is expected to decrease from the current AOR value. An error was found in the method to initialize the temperature distribution in the containment wall of ABB/CE's Large Break LOCA model for St. Lucie Unit 2. The effect on peak clad temperature was less than 1°F.

Should there be any questions, please contact us.

Very truly yours,

D. A. Sagor
Vice President
St. Lucie Plant

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DAS/CDW/kw

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

DAS/PSL# 1077-94

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