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 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
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 WOODY, C. O. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 THADANI, A. C. PWR Project Directorate 8

SUBJECT: Requests approval for new large break LOCA analysis, redone by C-E, to correct nonconservatism, in large break LOCA evaluation model & to add steam generator tube plugging up to 1,250 average length tubes per steam generator. Fee paid.

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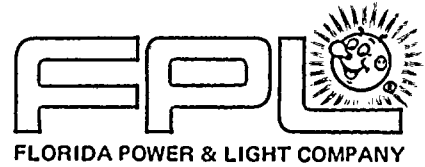
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L-86-81

Office of Nuclear Reactor Regulation
 Attention: Mr. Ashok C. Thadani, Director
 PWR Project Directorate #8
 Division of PWR Licensing - B
 U. S. Nuclear Regulatory Commission
 Washington, D. C. 20555

Dear Mr. Thadani:

Re: St. Lucie Unit No. 2
 Docket No. 50-389
C-E Large Break LOCA Analysis

Florida Power and Light Company letter L-86-37, dated January 31, 1986, provided the results of the St. Lucie Unit 2 Large Break LOCA Analysis, which was redone by Combustion Engineering (C-E) to correct a non-conservatism in C-E's Large Break LOCA evaluation model. As stated in our January 31, 1986 letter, the results demonstrate compliance with 10 CFR 50.46 criteria.

It should be noted that not only did the new analysis correct the non-conservatism, the new analysis also assumed additional steam generator tube plugging, up to 1250 average length tubes per steam generator. This represents a total tube plugging of approximately 15% compared to about 4% in the previous analysis.

The purpose of this letter is to request NRC approval of the new analysis. Although we do not expect to find any problems with the Unit 2 steam generators during the upcoming refueling outage, we are requesting your approval by April 1, 1986, in order to have the additional tube plugging margin.

For your information, the previous analysis assumed a limit of 300 tubes plugged per steam generator. As of April 1985, 178 tubes have been plugged in the "A" generator and 133 tubes have been plugged in the "B" generator.

In accordance with 10 CFR 170.12, attached is FPL Check No. 0507 for the required application fee.

Very truly yours,

C. O. Woody
 C. O. Woody
 Group Vice President
 Nuclear Energy

COW/RJS/gp

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THE UNITED STATES OF AMERICA
DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

MEMORANDUM FOR THE DIRECTOR
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SUBJECT: [illegible]

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