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 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co 05000251  
 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335  
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389

AUTH. NAME AUTHOR AFFILIATION  
 CONWAY, W.F. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
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SUBJECT: Informs of plan to suppl RETRAN topical rept as early as May 1989. Suppl will implement reactor trip reduction activities.

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U. S. Nuclear Regulatory Commission  
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Gentlemen:

Re: Turkey Point Units 3 and 4  
Docket Nos. 50-250 and 50-251  
St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
RETRAN Code

By letter L-86-04, dated January 7, 1986, Florida Power & Light Company (FPL) submitted to the NRC topical report NTH-G-6, "RETRAN Code Transient Analysis Model Qualification". Additional information was provided in letters L-87-91, dated March 2, 1987, and L-87-164, dated April 10, 1987. The Staff concluded in its Safety Evaluation dated April 19, 1988, (G. C. Lainas to W. F. Conway) that FPL had demonstrated the ability to use the RETRAN computer code to perform system transient calculations for these plants. However, the Staff noted that the topical report did not present details in plant-specific nodalizations, control system modeling and assumptions for the licensing analyses.

On January 9, 1989, FPL and the NRC met to discuss FPL's plans for further use of RETRAN in licensing submittals. Based upon FPL's identification of a planned application of the "Decrease in Heat Removal of the Secondary Side" event category, the Staff agreed to a RETRAN limited-scope submittal. However, the Staff requested that FPL not use a piecemeal approach to developing a full spectrum of licensing analyses for RETRAN beyond that submittal.

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Figure 1. The effect of the concentration of the  $\text{H}_2\text{O}_2$  solution on the amount of the released  $\text{H}_2\text{O}$  from the  $\text{H}_2\text{O}_2$ -loaded hydrogel. The amount of the released  $\text{H}_2\text{O}$  was measured by the weight difference of the hydrogel before and after the release. The concentration of the  $\text{H}_2\text{O}_2$  solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0 wt. %.

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As a result of the January 9, 1989 meeting, FPL is planning to supplement the RETRAN topical report as early as May 1989. This supplement will present generic methods applicable to all four of FPL's nuclear units and will specifically be intended, at the outset, to support plant improvements for St. Lucie Plant to implement reactor trip reduction activities.

If additional information is required on this topic, please contact us.

Very truly yours,



W. F. Conway

Senior Vice President - Nuclear

WFC/EJW/cm

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

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