



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

September 6, 1989

Docket Nos. 50-335  
and 50-389

Mr. C. O. Woody  
Acting Senior Vice President - Nuclear  
Nuclear Energy Department  
Florida Power and Light Company  
Post Office Box 14000  
Juno Beach, Florida 33408-0420

Dear Mr. Woody:

SUBJECT: COMPLIANCE WITH THE ATWS RULE, 10 CFR PART 50.62 - ST. LUCIE PLANT,  
UNIT NOS. 1 AND 2 (TAC NOS. 59144 AND 59145)

The ATWS Rule (10 CFR Part 50.62), Requirements for Reduction of Risk from Anticipated Transients Without Scram (ATWS) Events for Light-Water-Cooled Nuclear Power Plants, requires improvements in the design and operation of commercial nuclear power facilities to reduce the likelihood of failure to shut down the reactor following the anticipated transients, and to mitigate the consequences of an ATWS event. The requirements for St. Lucie Plant, Unit Nos. 1 and 2 are to provide a diverse scram system (DSS), diverse auxiliary feedwater actuation system (DAFAS), and diverse initiation of turbine trip (DTT). Paragraph (c)(6) of the rule requires that information sufficient to demonstrate compliance with the requirements be submitted to NRC.

Florida Power & Light Company (FP&L) provided information concerning implementation of ATWS Rule requirements at St. Lucie Plant, Unit Nos. 1 and 2 by letters dated July 15, 1987, August 15, 1988, and May 30, 1989. The staff, with the assistance of the EG&G Idaho Inc., its consultant, has reviewed this information. Based on this review, we have concluded that the DSS, DTT, and DAFAS designs are acceptable. The details of our review are contained in the enclosed Safety Evaluation.

One concern, discussed in Section 4.1.E of the Safety Evaluation, relating to a single annunciator window being used to indicate two opposite messages (Actuated vs Bypassed), is not good human engineering practice. FP&L should resolve this concern through the Human Factors Engineering Program.

We further acknowledge the FP&L's commitment to have the ATWS modifications implemented on both St. Lucie units during the refueling outages scheduled to

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*[Signature]*



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Mr. C.O. Woody

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begin in 1990. With this letter we are closing TAC Nos. 59144 and 59145, however, FP&L should continue to submit the bimonthly progress reports until the modifications are implemented.

Sincerely,

Original signed by

Jan A. Norris, Sr. Project Manager  
Project Directorate II-2  
Division of Reactor Projects-I/II  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
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Mr. C. O. Woody  
Florida Power & Light Company

St. Lucie Plant

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