



72 DEC 13 AIO: 33

December 9, 1982
L-82-529

Mr. James P. O'Reilly
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

Re: ST. LUCIE UNIT 2
DOCKET NO. 50-389, 10 CFR 50.55(e), 82-021
INCORRECT RPS LOW FLOW INPUT SIGNAL

On October 13, 1982, Florida Power and Light Company (FPL) notified the Region II Office of Inspection and Enforcement, in accordance with the requirements of 10 CFR 50.55(e) of a potential deficiency regarding incorrect RPS low flow input signals. Attached please find our final resolution of this issue.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/RMB/ok

cc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

8212150074 821209
PDR ADOCK 05000389
S PDR

OFFICIAL COPY
IE 27

ATTACHMENT

I. SUMMARY

During a planned inspection of the cables providing input to the Reactor Protective System (RPS), it was determined that the low flow signals had inverted polarities. Such signals would place the RPS channels in a tripped condition. Therefore, it would not have been possible to operate the reactor and there would have been no effect on safe operation of St. Lucie Unit 2. This issue is not reportable with respect to 10 CFR 50.55(e).

II. DESCRIPTION

The RPS low flow signal must be negative and the trip setpoint must be positive for proper trip functioning. Trip action occurs when the numerical addition of these two signals is greater than zero. The polarity of the low flow signal was incorrectly inverted (positive) in the wiring diagram (#2998-B-327, R6, 9/3/82) used for installation.

III. CORRECTIVE ACTION

The wiring diagram was corrected (see diagram 2998-B-327, R7, 10/21/82) and the polarity of the input signal cables was corrected (see Design Item Report I-257).

IV. SAFETY IMPLICATION

Inverted polarities on the low flow signal would result in positive signals. When added to the positive setpoints, the combined signal would be positive and the RPS would be placed in a tripped condition. Therefore, reactor startup would be precluded and safe operation of St. Lucie Unit 2 would not be affected.

V. CONCLUSION

This issue is not reportable according to the criteria of 10 CFR 50.55(e).

This report is final and completes requirements for reporting to the NRC.