

April 12, 1988

Docket No. 50-389

Mr. W. F. Conway  
Acting Group Vice President  
Nuclear Energy  
Florida Power and Light Company  
P.O. Box 14000  
Juno Beach, Florida 33408

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Dear Mr. Conway:

SUBJECT: ST. LUCIE PLANT, UNIT 2, NATURAL CIRCULATION COOLDOWN  
AND BORON MIXING (TAC NO. 54485)

License Condition 2.C.7 required Florida Power and Light Company (FP&L) to either provide a report of the San Onofre Unit 2 test justifying that the test data is applicable to St. Lucie 2, which assures adequate boron mixing during natural circulation cooldown, or perform a test to demonstrate adequate boron mixing during natural circulation cooldown. By letter dated March 13, 1984, FP&L submitted a copy of the report CEN-259 which evaluated the San Onofre natural circulation cooldown test. FP&L also stated that the report provided an evaluation of the applicability of the cooldown results to St. Lucie 2.

The staff has completed its review of the FP&L submittal on the above subject. The staff was assisted in its review by its contractor, Brookhaven National Laboratory. The staff concludes that St. Lucie 2 has demonstrated compliance with the requirements of Branch Technical Position-Reactor Systems Branch-5-1.

The associated Safety Evaluation and the contractor's Technical Evaluation Report are enclosed. Although not an open item and no response is necessary, the staff directs FP&L's attention to paragraph g) of the Safety Evaluation, and suggests that FP&L consider the need to include the use of the pressurizer power operated relief valves as a supplementary method of cooldown.

Sincerely,

E. G. Tourigny, Project Manager  
Project Directorate II-2  
Division of Reactor Projects-I/II  
Office of Nuclear Reactor Regulation

Enclosures: As stated

cc w/enclosures:  
See next page

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Mr. W. F. Conway  
Florida Power & Light Company

St. Lucie Plant

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