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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co.  
 AUTH. NAME: WILLIAMS, J.W.    AUTHOR AFFILIATION: Florida Power & Light Co.  
 RECIP. NAME: MILLER, J.R.    RECIPIENT AFFILIATION: Operating Reactors Branch 3

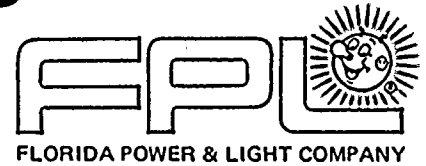
SUBJECT: Responds to 850329 question re evaluation of axial shape sensitivities for Cycle 6 large break LOCA analysis. Compliance w/10CFR50.46 demonstrated.

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APR 8 1985  
L-85-150

Office of Nuclear Reactor Regulation  
Attention: Mr. James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing  
U.S. Nuclear Regulatory Commission

Subject: St. Lucie Unit 1  
Docket No. 50-335  
Response to NRC Questions  
on ECCS Analysis

Dear Mr. Miller:

At the March 29, 1985 meeting between NRC and Exxon Nuclear Company on the NRC staff review of Topical Report XN-NF-82-20, NRC staff questioned whether axial shape sensitivities had been evaluated for the St. Lucie Unit 1 Cycle 6 Large Break LOCA analysis. Specifically, NRC asked Florida Power & Light to verify that the 15 kw/ft Technical Specification in conjunction with other Technical Specifications assured compliance with the 2200°F PCT limit required by 10CFR50.46.

An examination of all the full power axial shapes generated during the Cycle 6 setpoint analysis which are allowable under St. Lucie Unit 1 Technical Specifications has demonstrated compliance with 10CFR50.46. Specifically, operation within the requirements of Technical Specification 3.2.1, linear heat rate and Technical Specification 3.2.5, Axial Shape Index, eliminates unrealistic and unobtainable axial shapes from consideration and ensures acceptable plant operation.

We trust that this review resolves this question for St. Lucie Unit 1.

Very truly yours,

*for J. W. Williams, Jr.*  
J. W. Williams, Jr.  
Group Vice President  
Nuclear Energy

JWW/cb

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