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WILLIAMS,J.W. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
BUTCHER,E.J. Operating Reactors Branch 3

SUBJECT: Forwards XN-NF-85-117, "St Lucie Unit 1 Revised LOCA-ECCS Analysis w/15% Steam Generator Tube Plugging," in support of 851017 proposed license amend re LHGR limits.

SEE SUBJECT FILES FOR ENCLOSURE

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FLORIDA POWER & LIGHT COMPANY

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L-85-430

Office of Nuclear Reactor Regulation
Attention: Mr. Edward J. Butcher, Acting Chief
Operating Reactors Branch #3
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Butcher:

Re: St. Lucie Unit No. 1
Docket No. 50-335
LOCA-ECCS Analysis

Florida Power & Light Company's (FPL) letter to NRC, L-85-331, dated August 27, 1985, provided the details on an input error in the St. Lucie Unit No. 1 LOCA-ECCS analysis performed by Exxon Nuclear Company, Inc. (ENC). ENC corrected the input error and completed a re-analysis using current NRC approved methodologies. As a result of the re-analysis, FPL requested an amendment to the St. Lucie Unit No. 1 Technical Specifications (L-85-396, dated October 17, 1985) to assure continued compliance with 10 CFR 50.46 criteria.

In support of the proposed license amendment, the attached ENC Report XN-NF-85-117 provides the documentation to support the operating Linear Heat Generation Rate (LHGR) limits which meet the 10 CFR 50.46 criteria. Partial results of the LOCA break spectrum calculations sufficient to determine the limiting break LOCA are included, and results of the studies which provide the axially dependent operating LHGR limits are documented. The completed results of the LOCA-ECCS large break spectrum and the exposure calculations will be forwarded in a supplement to this report in early December 1985.

Very truly yours,

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

JWW/RJS/dh

Attachment

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