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FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
AUTH.NAME AUTHOR AFFILIATION
WILLIAMS,J.W. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
VARGA,S.A. Operating Reactors Branch 1

SUBJECT: Submits schedule for providing integral neutron source data to evaluate pressurized thermal shock flux reduction program.

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TITLE: OR Submittal: Thermal Shock to Reactor Vessel

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[illegible] Florida Power and Light Co.

[illegible]

Operating Reactors Branch 1

[illegible]: [illegible] schedule for [illegible] internal neutron source data to evaluate pressurized thermal shock flux reduction program.

[illegible] ______________

[illegible]: Thermal shock to reactor vessel

[illegible]

[illegible]

FLORIDA POWER & LIGHT COMPANY

December 21, 1983
L-83-597

Office of Nuclear Reactor Regulation
Attention: Mr. Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Turkey Point Units 3 & 4
Docket Nos. 50-250 & 50-251
Pressurized Thermal Shock -
Flux Reduction Program

Dear Mr. Varga:

Your letter dated November 17, 1983 requested a schedule for providing integral neutron source data to allow evaluation of FPL's flux reduction. This data will be supplied on the following schedule:

Unit 4 Cycle 9	March 1, 1984
Unit 3 Cycle 9	April 1, 1984
Unit 4 Cycle 10	August 1, 1984

Regarding your letter, we would like to clarify that the expected flux reduction factor of 3.3 will be achieved by the use of a combination of highly burned fuel and borosilicate glass burnable absorbers on the core flats of Turkey Point Unit 3 Cycle 9. The use of Optimized Fuel Assembly and Wet Annular Burnable Absorber designs is for the purpose of nuclear fuel economy and is unrelated to the flux reduction. Also, the near term flux reduction factor of 3.3 is anticipated to extend our reaching the screening criteria to the year 2004. The expected long term flux reduction factor of about 4 in subsequent cycle core designs will extend this time to 2007.

Very truly yours,

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

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1/0

JWW/ERK/daj

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire