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 50-250 Turkey Point Plant, Unit 3, Florida Power and Light Co 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co 05000251
 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
 AUTH. NAME AUTHORITY AFFILIATION
 WOODY, C. O. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 BERKOW, H. N. Special & Standardization Project Directorate

SUBJECT: Forwards NTH-G-6 "RETRAN Code Transient Analysis Model Qualification," to qualify RETRAN models for non-LOCA sys safety analysis. Review & approval of rept requested by 860801. Fee paid.

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NOTES: 05000250
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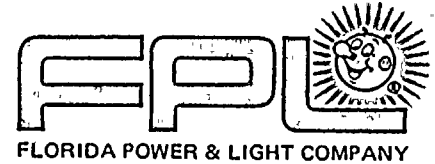
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Office of Nuclear Reactor Regulation
Attention: Mr. Herbert N. Berkow, Chief
Standardization and Special
Project Directorate
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Berkow:

Re: Topical Report - RETRAN Code Transient Analysis Model Qualification

We are transmitting herewith twenty-three (23) copies of the Topical Report, "RETRAN Code Transient Analysis Model Qualification" for your review and approval.

The attached Topical Report is submitted for the purpose of qualifying FPL's RETRAN models for non-LOCA system safety analyses in support of future licensing submittals for Turkey Point Units 3 and 4 and St. Lucie Units 1 and 2, Docket Numbers 50-250, 50-251, 50-335, and 50-389, respectively. A Topical Report on FPL's core thermal-hydraulic codes, models and methods will be submitted at a later date.

FPL desires to have the capability of supporting licensing amendments during 1986 and 1987 which have the objective of increasing the safety, availability and operating flexibility of the Turkey Point and St. Lucie nuclear plants. It is our objective to have the flexibility to support any non-LOCA safety analyses in-house, utilizing computer models and methods developed at FPL since the mid-1970's. Currently, FPL's system simulation is performed with the RETRAN Code developed by the Electric Power Research Institute and approved for non-LOCA analysis by the NRC. In parallel with the qualification of FPL's thermal-hydraulics methods, an effort is ongoing to qualify FPL's core physics methods for use in safety-related licensing applications.

A topical report on PWR lattice physics methods was submitted on May 10, 1984 (FPL Letter L-84-125), and additional reports on FPL's physics models and methods will be submitted in early 1986. It is the aim of this effort to eventually qualify FPL's methods for performing most non-LOCA safety-related plant analysis, including reload analysis, for its nuclear plants.

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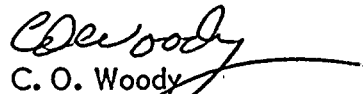
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Office of Nuclear Reactor Regulation
Mr. Herbert N. Berkow

Review and approval of the RETRAN Code Transient Analysis Model Qualification Topical Report, and the PWR Lattice Physics Methods Topical Report submitted May 10, 1984, are requested by August 1, 1986.

In accordance with 10 CFR 170, an application fee of \$150.00 is enclosed.

Very truly yours,


C. O. Woody
Group Vice President
Nuclear Energy

COW/TCG/gp

Enclosure

cc: Dr. J. Nelson Grace, NRC IE Region II (w/o encl.)
Harold F. Reis, Esquire (w/o encl.)

REFERENCES

1. RETRAN-02 - A Program for Transient Thermal-Hydraulic Analysis of Complex Fluid Flow Systems, EPRI, NP-1850, May 1981.
2. Letter C. O. Thomas (NRC) to T. W. Schnatz (Middle South Services), September 4, 1984.
3. Topical Report PWR Lattice Physics Methods at Florida Power & Light Company, June 1983. Letter from J. W. Williams (FPL) to S. A. Varga (NRC), L-84-125, May 10, 1984.

