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 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.
 AUTH. NAME: UHRIG, R.E. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIPIENT NAME: EISENHUT, D.G. RECIPIENT AFFILIATION: Division of Licensing

DOCKET #
05000389

SUBJECT: Forwards info on how Unit 1 natural circulation cooldown analysis is applicable to Unit 2, Unit 2 parameters almost identical to Unit 1 parameters.

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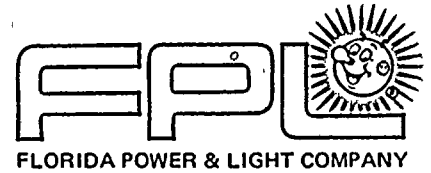
Department of Chemistry
University of Chicago
Chicago, Illinois 60637

Dear Sirs:

Enclosed for you are two copies of the report on the progress of the work done during the past year.

Sincerely,
[Signature]

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October 29, 1982
L-82-473

Office of Nuclear Reactor Regulations
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

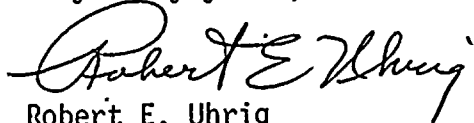
Dear Mr. Eisenhut:

Re: St. Lucie Unit No. 2
Docket No. 50-389
Natural Circulation Cooldown

Attached please find Florida Power and Light Company's (FPL) re-
sponse to the NRC staff request for additional information on how
the Natural Circulation Cooldown analysis for St. Lucie Unit 1 is
applicable to St. Lucie Unit 2.

If you have any questions regarding this submittal, please contact
us accordingly.

Very truly yours,


Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/RJS/JES/sms

Attachment

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

BOO!

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A PDR

ATTACHMENT

Appendix 5.2B in the St. Lucie Unit 2 FSAR describes the analysis performed and the results obtained from St. Lucie Unit 1 Natural Circulation Cooldown. NRC staff reviewers requested FPL to demonstrate how this analysis also applies to St. Lucie Unit 2.

The St. Lucie Unit 1 thermal hydraulic model used in the analysis is fully detailed in appendix 5.2B of the St. Lucie unit 2 FSAR. Additionally, Table 5.2B-1 of this appendix lists those parameters (i.e. nodals) which were used in developing the RETRAN computer code for Unit 1. The parameters listed for St. Lucie Unit 1 were reviewed and compared with like parameters for St. Lucie Unit 2. St. Lucie Unit 2 parameters were found to be virtually identical to the St. Lucie 1 parameters (i.e. within acceptable tolerances of error for the analysis). Differences in numerical volumes were found due to 16 X 16 fuel geometry used in Unit 2. However, these differences would not change the results of the Unit 1 analysis.

SECRET

