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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co.
 AUTH. NAME: UHRIG, R.E. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIP. NAME: EISENHUT, D.G. RECIPIENT AFFILIATION: Division of Licensing

DOCKET # 05000335

SUBJECT: Submits results of reevaluation of postulated loss of ac power at 2,700 MW for facility. Findings indicate that at stretch power rating unit can be safely controlled even if total loss of ac power occurs.

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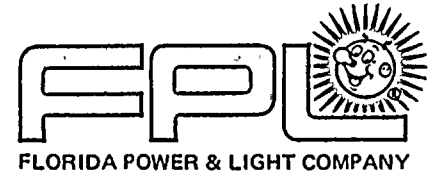
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TO: DIRECTOR, NATIONAL BUREAU OF STANDARDS
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FROM: DR. J. H. GOLDSTEIN
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS 60637

SUBJECT: PHYSICAL PROPERTIES OF POLYMER SOLUTIONS

RE: PHYSICAL PROPERTIES OF POLYMER SOLUTIONS



January 22, 1982
L-82-27

Office of Nuclear Reactor Regulation
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 1
Docket No. 50-335
Loss of AC Power

Our letter (L-81-52) dated December 18, 1981 provided a response to your concerns on a postulated loss of AC power at St. Lucie Unit 1. We concluded that St. Lucie Unit 1 could be safely controlled through a total loss of AC power. This conclusion was based on our review of the analysis for St. Lucie Unit 2 which was conducted at a power level of 2560 Mwt. We also stated in our letter, that we would reevaluate the results of the St. Lucie Unit 1 study for a power level of 2700 Mwt.

We have completed our reevaluation and the results indicate that there is very little difference, as far as the loss of AC transient is concerned, between 2560 Mwt and 2700 Mwt. Specifically, our evaluation for St. Lucie Unit 1 at 2700 Mwt has shown that:

1. Natural circulation and core cooling can be maintained for at least 3 hours.
2. The reactor core remains in a subcritical condition.
3. There is no fuel damage.
4. The RCS coolant pressure remains within limits.

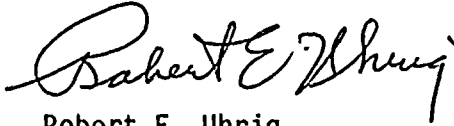
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PDR



As shown in our previous letter (L-81-327) there is a high probability of restoring off site AC power in a short time period and there would be a very high probability of restoring off site AC power prior to the 3 hours mentioned above. We conclude, therefore that at stretch power rating, St. Lucie Unit 1 can be safely controlled through a total loss of AC power.

Very truly yours,



Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/PLP/ras

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



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