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 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C
 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co.

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 05000251
05000335

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 RECIP. NAME: EISENHUT, D.G.
 AUTHOR AFFILIATION: Florida Power and Light
 RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation

SUBJECT: Forwards response to NRC 791001 & 1017 requests for info re loss of offsite power events. Description of significant sys-wide improvements & info re major offsite events encl.

(see 50-250 for encl.)
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 TITLE: Onsite Emergency Power Systems

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February 11, 1980
L-49-80

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Acting Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: Turkey Point and St. Lucie Plants
Docket Nos. 50-250, 50-251, and 50-335
Offsite Power

This letter is forwarded in response to letters dated October 1 and October 17, 1979 from Mr. A. Schwencer and Mr. R. W. Reid of your staff. The NRC letters were on the general subject of offsite power and requested considerable information specific to loss of offsite power events experienced by Florida Power & Light Company (FPL).

The detailed compilation of the requested information represents an extensive effort to segregate data on offsite power events, much of which already exists in other FPL reports. At this point, we have determined that it would be less time consuming (an important consideration given the manpower constraints caused by NUREG-0578) and possibly more useful for us to describe the many significant system-wide improvements we have made since our first nuclear unit became operational in 1972. This description is provided in Attachment 1 and shows the degree of change experienced by the FPL transmission system over the intervening years. Thus, for the purpose of evaluating an electrical transmission system, the value of compiling detailed information on offsite power events from several years past would appear to be much less for the FPL system than for a system that had not been changed.

A listing of major FPL offsite power events is presented in Attachment 2. Each event was analyzed to determine its cause and to develop recommendations to help prevent recurrence. A large number of such recommendations have been implemented, with a consequent increase in the stability and reliability of the FPL system. In general the improvements can be categorized as follows:

- (1) an increase in the number and capacity of transmission lines, with plans for further expansion of the 500 kV portion of the system,
- (2) improved control by means of an advanced electronic control system, simulator training, and improved switching procedures and emergency control procedures,
- (3) improved system relay protection, and
- (4) revised system operating policies.

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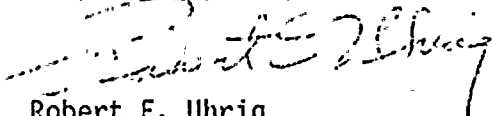
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Mr. Darrell G. Eisenhut, Acting Director
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In an attempt to supply as much information as possible while minimizing our staff workload, we have compiled a list of references related to the events listed in Attachment 2. The references are presented in Attachment 3.

We hope that the attached information will satisfy your staff's request. However, if additional information is needed to resolve any remaining concerns, please let me know. FPL is more than willing to respond to your staff's concerns, but we would like to do so in a manner that minimizes the impact on our limited resources.

Very truly yours,



Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/cph

Attachments (3)

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