

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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

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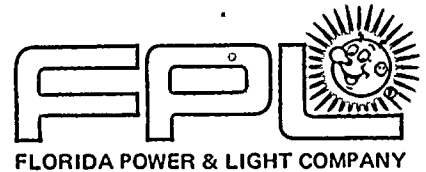
SUBJECT: Forwards addl info re onsite ac power sys bus tie
 interlocks.

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October 12, 1982
L-82-439

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
Onsite AC Power System Bus Tie Interlocks

Attached is our response to a request your staff made for providing additional information on the method by which the AC bus tie breakers are interlocked. If you have any further questions on this matter, please contact us.

Very truly yours,

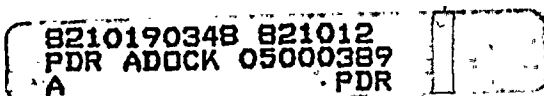
J. A. De Massey
Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/RAK/jea

Attachment

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

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Onsite AC Power System Bus Tie Interlocks

As described in FSAR Section 8.3.1.1.1 there are no direct connections between parts of the system which serve load group A and those parts which serve load group B. Buses serving load group AB can be manually connected with either the buses serving load group A or B but never simultaneously. This is accomplished by use of "captive key type switches" in the breaker control switches at the Reactor Turbine Generator Board.

Under normal operating conditions, load group AB is connected to load group A (B) through two normally closed breakers in series. These breakers are controlled by their associated captive key type switches. The keys, which must be inserted to close the breakers, are "captured" and cannot be removed until the breaker switch is placed in the open position. These same keys are also used to unlock and operate the switches controlling the breakers between load group B (A) and load group AB. Therefore, whenever load group A (B) is connected to load group AB, the breaker control switches are in the closed position, the keys to operate the switches are "captured", and the control switches for the breakers between load group B (A) and load group AB cannot be operated.

The operation of these switches is the same as that described for the 125V DC bus ties described in FSAR Section 8.3.2.1.

Based on the above description and since there is no direct connections between parts of the system which serve load group A and those parts which serve load group B, Florida Power and Light concludes there is no requirement for providing a technical specification that these breakers be locked open nor to provide an alarm in the control room to indicate breaker misalignment.

