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 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
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 ULHRIG, R.E. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Forwards revised response to Auxiliary Sys Branch Question 410.49 which has not been formally submitted on docket. Response will be incorporated into FSAR in future amend.

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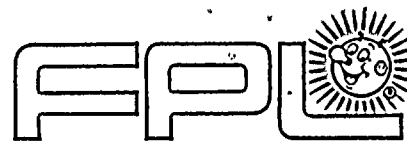
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FLORIDA POWER & LIGHT COMPANY

August 10, 1982
L-82-345

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 No. 2
Docket No. 50-389
Final Safety Analysis Report
Response to ASB Question 410.49

Attached is Florida Power and Light Company's revised response to ASB Question 410.49, which has not been formally submitted on the St. Lucie Unit No. 2 Docket. This response will be incorporated into the St. Lucie Unit 2 FSAR in a future amendment.

Very truly yours,

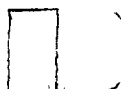
Robert E. Ulhrig
Vice President
Advanced Systems & Technology

REU/cab

Attachments

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

Boo!



Question No.

410.49

Using the staff position and as indicated in Paragraph B.2.b of the staff position, provide a discussion of all spurious signals which could lead to an unrecoverable event in a control room fire. The staff recognizes that the capability exists to electrically isolate the control room from other remote shutdown plant areas. However, we are concerned that a period of time will exist when electrical isolation cannot be provided, (i.e. from the time the operator leaves the control room until full control of the plant is regained at the hot shutdown panel). Provide a discussion of the proposed modification for each circuit, identified for the control room, which will prevent an unrecoverable event from occurring during the time when the plant is not being completely controlled by the operator.

Response:

410.49
(Appendix R)

A single spurious signal cannot lead to an unrecoverable event in a control room fire. As stated by the question the sole concern is a spurious signal when the operators are absent from the control room. We concur with that assessment. First, we maintain that no mechanistic scenario can be developed which causes all operators to leave the control room. In any event, a spurious signal can be handled. Second, referring to the initiating events in FSAR Section 15.0.1.2, the sole concern is a decrease in Reactor Coolant System inventory. Reviewing the Reactor Coolant System boundary we believe the sole concern to be a spurious signal opening a power operated relief valve. Third, the design of the control cabling generally precludes the generation of a spurious signal because the signal cable is routed in conduit until a few inches of termination. The likelihood of a fire occurring in a certain section of the panel, the insulation burning off two particular wires, the wires not grounding but contacting with each other, and the operators leaving the control room is remote. Fourth, such a hypothesized spurious signal would create a small break loss of coolant accident which would trigger automatic plant response and mitigation until the operator terminated the event by closing the power operated relief valve or the stop valve upstream.

Response: Cont'd

410.49
(Appendix R)

Fifth, the operator has pressurizer level and pressure at the remote shutdown panel along with procedures to handle this event, either by local control or returning to the control room.

A summary of the limiting event selection of the power operated relief valve (PORV) for the single spurious signal is as follows:

1. The eight event types as listed in 15.0.1.2 in the FSAR were examined with the consideration that any active electrical piece of equipment could move to its most adverse position; for example, pump turning on or off, valve opening or closing, instrumentation moving to create an erroneous reading or a false signal.
2. While a spurious signal could cause many of the events to occur, the review indicated that the only one of concern was the decrease in reactor coolant system inventory. The other events could be routinely handled by procedures or could continue until another mode of operation, such as, cold shutdown was required.
3. The reactor coolant system boundary was closely examined and it was determined that the spurious opening of a PORV was the only single event that causes a decrease in reactor coolant system inventory event.
4. The operator has sufficient information and procedures to close PORV isolation valve to terminate the decrease in reactor coolant system inventory, and restore the lost inventory.

