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 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D. G. Division of Licensing

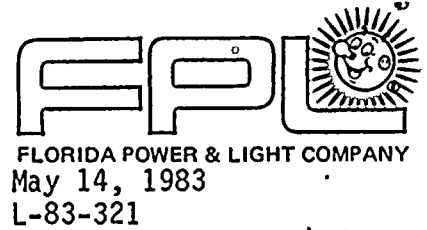
SUBJECT: Forwards revised FSAR Table 7.3-9 indicating effects ESF actuation sys devices have on plant operation. Table will be incorporated into Amend 14 to FSAR scheduled for 830808.

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FLORIDA POWER & LIGHT COMPANY
May 14, 1983
L-83-321

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
ESFAS TESTING

- References:
1. NRC letter dated March 18, 1983 from G.W. Knighton (DL/LB3) to Dr. R.E. Uhrig (FPL)
 2. FPL letter, L-83-199 dated March 30, 1983, from R.E. Uhrig to D.E. Eisenhut

Per Reference 1, FPL was requested to confirm the staff's understanding of the St. Lucie Unit No. 2 FSAR (Subsection 7.2.1.1.9, 7.3.1.1(d) and 7.4.2.3) regarding ESFAS testing in accordance with the requirements of IEEE-338, "Standard Safety Systems" and Regulatory Guide 1.22, "Periodic Testing of Protection Systems Actuation Functions". IEEE-338 and R.G. 1.22 require the protection systems to be designed to allow periodic testing at power.

In Reference 2, FPL committed to existing information regarding those ESFAS actuation devices which are not tested during normal operation; but, are tested during shutdown. Please find attached the revised FSAR Table 7.3-9 which indicates what effects the actuation of those devices listed in the table would have on plant operation. This table will appear in Amendment 14 to the St. Lucie Unit No. 2 FSAR, which is scheduled to be issued on August 8, 1983.

Should you have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems and Technology

Attachment

REU/RJS/JES/rms

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

Boo!
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TABLE 7.3-9

COMPONENT AND ACTUATED DEVICES NOT TESTED DURING NORMAL OPERATION

Actuated Component	Signal Received	Normal Valve Position	Actuating Power	Position On Failure of Actuating Power	Status Required After Accident Signal	Effect of Failure of Component to Assume Accident Position	Degree of Testing During Operation	Effect on Plant Operation in Mode 1, if Actuated Device Was Operated During Test	
Safety Injection tank check valve ischoff valve NYC-3618, 3628, 3638, 3648	SIAS	Closed	Air	Closed	Closed	None. Does not affect system operation	Autotest of SIAS logic	To perform the test valves must be opened. Open valves may cause draining of SIT's to RWT.	14
Shutdown line containment isolation valve V-2313 V-2316 V-2322	SIAS SIAS, CIS CIS	Open	Air	Closed	Closed	None. Redundant valve provided	Autotest of SIAS and CIS logic	Closure of the valves will terminate reactor shutdown system, increase pressurizer level and affect boron controls.	14
Volume control tank discharge valve V-2301	SIAS	Open	AC	As is	Closed and open inhibit	Loss concentrated injection of boron to reactor via charging pumps. Does not affect safe plant shutdown	Autotest of SIAS logic. AC power supply for valve motor is monitored	Closure of the valves will terminate section of the charging pumps.	14
Intake cooling water header isolation valve NY-21-3, 21-2	SIAS	Open	AC	As is	Closed	Reduced capability or loss of one redundant cooling water header. One DOL capacity header remains	Autotest of SIAS logic. AC power supply for valve motor monitored	Closure of the valves will remove cooling water to turbine cooling water systems.	14
Reactor coolant pump oil lift pump 2A-1, 2A-2, 2B-1, 2B-2	SIAS	Runs during start and stop of reactor coolant pump	-	Stop	Start inhibit	None. Diesel generator can accept the additional 10 HP load	Autotest of SIAS logic	The Reactor Coolant Pump Oil Lift System should be utilized only during Reactor Coolant Pump start and stop operations. Testing of the Reactor Coolant Pump Oil Lift System during normal operations will result in the injection of oil into the thrust bearing, thereby producing unbalanced uplift forces on the pump rotor which could possibly produce rotor damage.	14
Reactor coolant pump cooling water containment isolation valve NYV-14-1, 3, 6, 7	SIAS	Open	Air	Closed	Closed	None. Redundant valves provided	Autotest of SIAS logic	Closure of the valves will interrupt vital cooling water to the R.C. pumps and motors with possible damage to equipment.	14
Instrument air containment isolation valve NYV-18-1	CIS	Open	Air	Closed	Closed	None. Two redundant check valves provided	Autotest of CIS logic.	Closure of the valve will terminate air supply to many air operated valves and dampers causing them to assume their failed positions.	14
Reactor coolant pump controlled bleedoff containment isolation valve V-2303, V-2324	CIS	Open	Air	Closed	Closed	None. Redundant valve provided	Autotest of CIS logic	Closure of these valves during test will have a potential for injuring the RCP seals.	14

7.3-50

Attachment No. 16, (8/13)

TABLE 7.3-9 (Cont'd)

<u>Actuated Component</u>	<u>Signal Received</u>	<u>Normal Valve Position</u>	<u>Actuating Power</u>	<u>Position On Failure of Actuating Power</u>	<u>Status Required After Accident Signal</u>	<u>Effect of Failure of Component to Assume Accident Position</u>	<u>Degree of Testing During Operation</u>	<u>Effect on Plant Operation in Mode 1 if Actuated Device Was Operated During Test</u>
Main steam line containment isolation valve MCT-08-1A, 1B	MSIS	Open	Air	Fail closed on air accumulator failure. Electrical failure=open	Closed	Refer to Section 15.4.6 of FSAR	Autotest of MSIS logic. Test of opening and closing solenoids. Valve stroke is tested. Monitor of DC supply	The valve should not be completely closed during test since the flow of steam will be interrupted causing a complete upset in operating conditions with probable inability of the unit to maintain load and possible initiation of trip of the unit.
Safety Injection tank motor operated stop valves MV-3614, 3624, 3634, 3644	SIAS	Open	AC	As is	Open	Valve & 420V PM locked open	Autotest of SIAS tank logic. AC power supply for valve motor monitored	This valve is normally open and is locked open with power removed, therefore making it unnecessary (and without power, impossible) to open valve during test. In addition, valve shall be open to perform safety function.
Feedwater isolation valves MCT-09-1A, -1B MCT-09-2A, -2B	MSIS	Open	DC/AIR/HYDRAULIC	DC failure-As is Pilot Air Reservoir Failure - As is. Hydraulic Accum failure - As is	Closed	None. Redundant valve	Autotest of MSIS logic. Valve stroke & hydraulic accumulator, closing & opening solenoids are tested. DC supply monitored in control room. Alarmed: DC failure, hydraulic accum. low pressure, air reservoir low pressure & air supply low pressure.	If the valve is closed, a loss of feedwater to one Steam Generator will cause low Steam Generator level, actuate Aux PM with possible initiation of MSIS and SIAS.

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Amendment No. 15, (8/83)

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