

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8302010522      DOC. DATE: 83/01/24      NOTARIZED: NO      DOCKET #  
 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.      05000389  
 AUTH. NAME      AUTHOR AFFILIATION  
 UHRIG, R. E.      Florida Power & Light Co.  
 RECIPIENT NAME      RECIPIENT AFFILIATION  
 EISENHUT, D. G.      Division of Licensing

SUBJECT: Forwards proposed test abstract for performing natural circulation testing during Hot Ops II. Abstract focuses on reducing impact of natural circulation testing at facility & meets requirements of NUREG-0737, Item I.G.1.

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	RGN2		3	3		RM/DDAMI/MIB		1	0
EXTERNAL:	ACRS 41		6	6		BNL (AMDTS ONLY)		1	1
	DMB/DSS (AMDTS)		1	1		FEMA-REP DIV 39		1	1
	LPDR 03		1	1		NRC PDR 02		1	1
	NSIC 05		1	1		NTIS		1	1

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FLORIDA POWER & LIGHT COMPANY

January 24, 1983

L-83-34

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  
Natural Circulation Testing Plan

Attached for your approval is the Florida Power & Light proposed test abstract for performing Natural Circulation Testing at St. Lucie Unit #2 (SL-2) during our upcoming Hot Ops II.

The test abstract focuses on reducing the impact of Natural Circulation Testing at SL-2 and also meets the requirements of NUREG-0737-TMI Action Plan I.G.1.

In addition to the testing as outlined in the abstract FP&L proposes to do a one time test in which natural circulation will be initiated from a "no flow" condition as requested by your Mr. W. Long of the Procedures and Test Review branch. We will, by this test, be able to determine the extent of natural circulation without forced circulation as an initiating event.

Upon receipt of your approval of this approach, FP&L will proceed with completion of the detailed test procedures.

If you have any further questions on the above, please contact us.

Very truly yours,

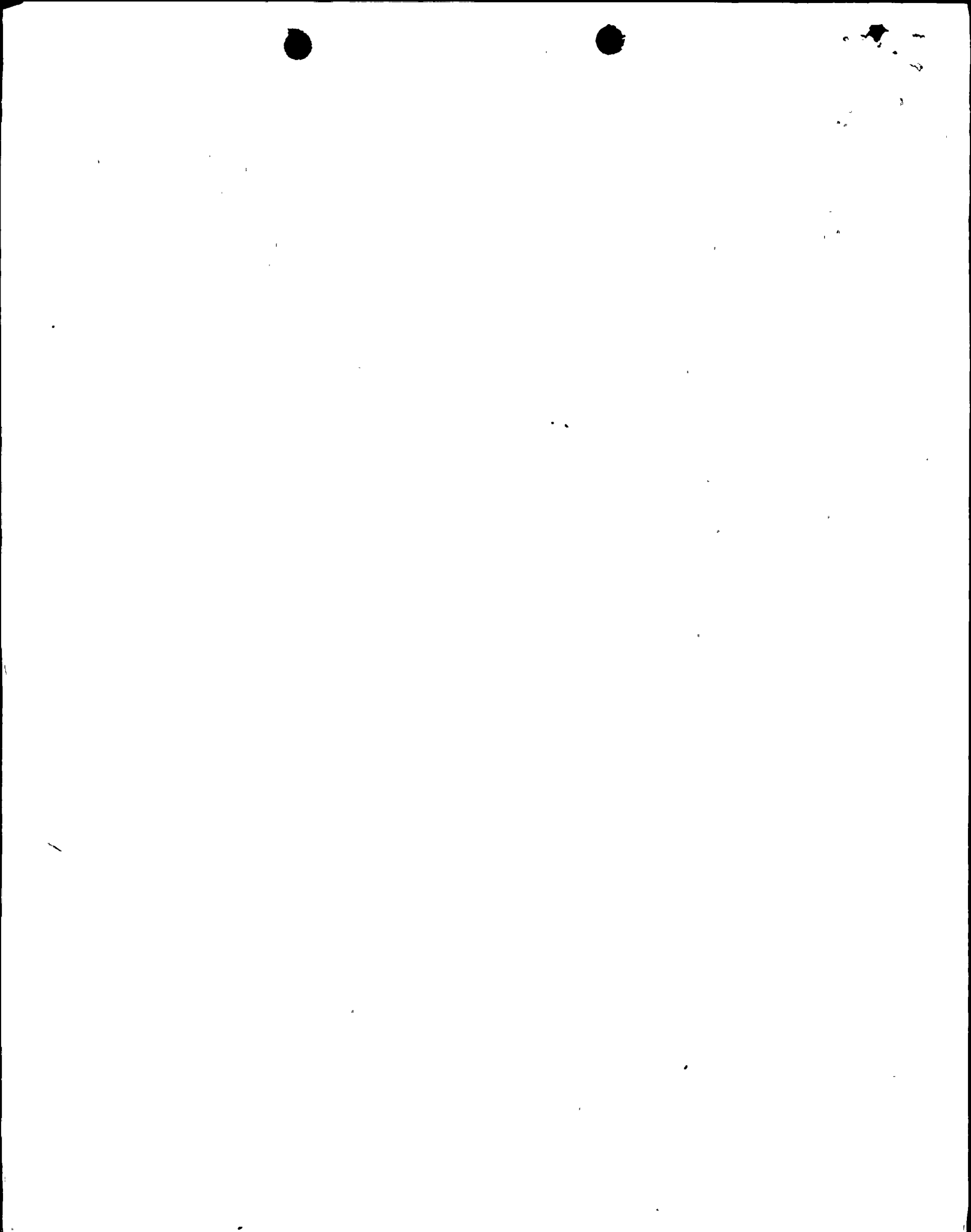
Robert E. Uhrig  
Vice President  
Advanced Systems and Technology

REU/RJS/JES/ok  
Attachment

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

Boo!

8302010522 830124  
PDR ADOCK 05000389  
A PDR



## NATURAL CIRCULATION TESTING

### INITIAL CONDITIONS

1. The Reactor Coolant System is at 532<sup>0</sup>F and 2250 psia, all rods inserted.
2. A boron concentration consistent with a 5% shutdown margin at 400<sup>0</sup>F is present in the Reactor Coolant System.
3. Atmospheric steam dump and/or turbine bypass systems are operable.
4. Auxiliary feedwater is maintaining steam generator levels within normal range.
5. Pressurizer level and pressure controls are in automatic.
6. At least one reactor coolant pump in each loop is operating.

### TEST SEQUENCE

1. Trip all running reactor coolant pumps.\*
2. Begin cooldown at 25-30<sup>0</sup>F per hour via atmospheric steam dumps or steam bypass to 400<sup>0</sup>F.
3. Begin reactor coolant system depressurization via auxiliary spray to 1750 psia.
4. Stabilize RCS at 400<sup>0</sup>F and 1750 psia.

### TEST RECOVERY

1. Start Reactor Coolant Pump(s) in accordance with normal plant procedures.
2. Heat up Reactor Coolant system to normal zero power temperature.
3. Operate pressurizer heaters to increase reactor coolant pressure to 2250 psia.
4. Repeat test sequence and recovery as needed.

\* FP&L will perform a one time natural circulation test in which the Reactor Coolant Pumps will be allowed sufficient time to coast down prior to initiating cooldown.