

REGULATORY INFORMATION DISTRIBUTION SYSTEM (IDS)

ACCESSION NBR: 8211040415      DOC. DATE: 82/10/29      NOTARIZED: NO  
 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.  
 AUTH. NAME                      AUTHOR AFFILIATION  
 UHRIG, R. E.                      Florida Power & Light Co.  
 RECIP. NAME                      RECIPIENT AFFILIATION  
 EISENHUT, D. G.                      Division of Licensing

DOCKET #  
05000389

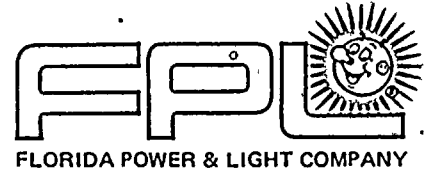
SUBJECT: Forwards response to NRC request re boron dilution sys  
 alarm, per FSAR Question 440.28. Util will install redundant  
 alarm to alert operators to boron dilution transient.

DISTRIBUTION CODE: B001S      COPIES RECEIVED: LTR   1   ENCL   1   SIZE:   2    
 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES:

	RECIPIENT ID CODE/NAME	COPIES		RECIPIENT ID CODE/NAME	COPIES	
		LTR	ENCL		LTR	ENCL
	A/D LICENSNG	1	0	LIC BR #3 BC	1	0
	LIC BR #3 LA	1	0	NERSES, V.      01	1	1
INTERNAL:	ELD/HDS2	1	0	IE FILE	1	1
	IE/DEP EPDS      35	1	1	IE/DEP/EPLB      36	3	3
	NRR/DE/AEAB	1	0	NRR/DE/CEB      11	1	1
	NRR/DE/EGB      13	3	3	NRR/DE/GB      28	2	2
	NRR/DE/HGEB      30	2	2	NRR/DE/MEB      18	1	1
	NRR/DE/MTEB      17	1	1	NRR/DE/QAB      21	1	1
	NRR/DE/SAB      24	1	1	NRR/DE/SEB      25	1	1
	NRR/DHFS/HFEB40	1	1	NRR/DHFS/LQB      32	1	1
	NRR/DHFS/OLB      34	1	1	NRR/DHFS/PTRB20	1	1
	NRR/DSI/AEB      26	1	1	NRR/DSI/ASB      27	1	1
	NRR/DSI/CPB      10	1	1	NRR/DSI/CSB      09	1	1
	NRR/DSI/ETSB      12	1	1	NRR/DSI/ICSB      16	1	1
	NRR/DSI/PSB      19	1	1	NRR/DSI/RAB      22	1	1
	NRR/DSI/RSB      23	1	1	NRR/DST/LGB      33	1	1
	<u>REG FILE</u> 04	1	1	RGN2	2	2
	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





October 29, 1982  
L-82-472

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  
Boron Dilution System Alarm

Attached please find Florida Power & Light Company's response to the NRC staff request on boron dilution system alarm for St. Lucie Unit 2. The NRC original request was made in FSAR question 440.28. Should you have any questions concerning this submittal please advise accordingly.

Very truly yours,

Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/RJS/RWG/cab

Attachment

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

*Boo!*

8211040415 821029  
PDR ADCK 05000389  
A PDR



Handwritten scribbles or marks in the top right corner.

ATTACHMENT

NRC question 440.28 first requested information on St. Lucie Unit 2 boron dilution alarms. Florida Power & Light (FPL) response to question 440.28 provided all the indications and/or alarms available to alert operators that a boron dilution event is occurring. In subsequent discussions between FPL staff and NRC reviewers, the NRC reviewers indicated that a redundant alarm is required. To comply with NRC requests FPL will install a redundant boron dilution alarm to alert operators to a boron dilution transient. Due to schedular demands on FPL staff during this stage of plant construction the alarm will not be completely functional until after our first planned refueling outage. In the interim, FPL will increase its monitoring frequencies for boron dilution detection as prescribed on the table below:

Monitoring Frequencies for Backup Boron Dilution Detection  
For St. Lucie 2

Operational Mode	# of Charging Pumps			
	0	1	2	3
3 (Hot Standby)	12 hrs.	4 hrs. **(384 min)	2 hrs. (142 min)	1 hr. (128 min)
4 (Hot Shutdown)	12 hrs.	4 hrs. (427 min)	2 hrs. (213 min)	1 hr. (142 min)
5 (Cold Shutdown)	8 hrs.	1 hr. (162 min)	0.5 hr. (81 min)	0.5 hr. (54 min)
5 (Cold Shutdown with system drained down for repairs)	8 hrs.	0.5 hr. (71 min)	Operation not allowed (35 min)	Operation not allowed (17 min)
6* (Refueling)	24 hrs.	4 hrs. (668 min)	2 hrs. (334 min)	1 hr. (222 min)

\*During refueling the LPSI pumps should be used for makeup operations. If it is necessary to use the charging pumps, the appropriate monitoring frequency above should be used.

\*\*The numbers in parenthesis included in the above table represent the number of minutes from initiation of dilution until Keff = 1. These numbers do not appear in St. Lucie 2 Tech Specs.



Handwritten scribbles and marks in the top right corner, possibly including a date or initials.