

50-335

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER  
INCIDENT REPORT

TO: N.C. MOSELEY

FROM: FLORIDA PWR & LIGHT CO.  
MIAMI, FLORIDA  
A.D. SCHMIDT

DATE OF DOCUMENT  
3/28/77

DATE RECEIVED  
4/6/77

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DESCRIPTION  
LTR. TRANS THE FOLLOWING.....  
  
(1P)  
  
PLANT NAME: ST. LUCIE # 1  
SAB

ENCLOSURE  
LICENSEE EVENT REPORT FOR R.O. # 77-13, ON  
2/26/77 CONCERNING POWER THAT WAS LOST FROM  
THE SUPS .....

(2P)

**ACKNOWLEDGED**

**DO NOT REMOVE**

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION

BRANCH CHIEF:	Ziemana
W/3 CYS FOR ACTION	
LIC. ASST.:	Diss
W/1 CYS	
ACRS 16 CYS HOLDING/SENT	As CATB

INTERNAL DISTRIBUTION

<del>REG FILE</del>	
NRC PDR	
I & E (2)	
MIPC	
SCHROEDER/IPPOLITO	
HOUSTON	
NOVAK/CHECK	
GRIMES	
CASE	
BUTLER	
HANAUER	
TEDESCO/MACCARY	
EISENHUT	
BAER	
SHAO	
VOLLMER/BUNCH	
KREGER/J. COLLINS	

EXTERNAL DISTRIBUTION

LPDR: Ft Pierce, Fla	
TIC:	
NSIC:	

CONTROL NUMBER

RD. 4  
770980238 (6)

100

100

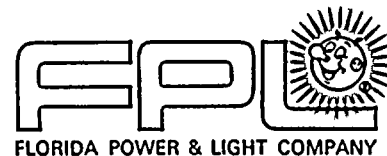
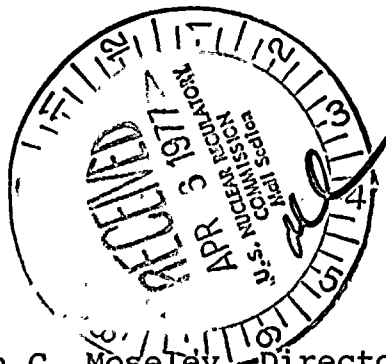
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March 28, 1977

PRN-LI-77-91

Mr. Norman C. Moseley, Director, Region II  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
230 Peachtree Street, N.W., Suite 1217  
Atlanta, Georgia 30303

Regulatory

File Cy.

Dear Mr. Moseley:

REPORTABLE OCCURRENCE 335-77-13  
ST. LUCIE UNIT 1  
DATE OF OCCURRENCE: FEBRUARY 26, 1977

RCS COLD LEG TEMPERATURE

The attached Licensee Event Report is being submitted in accordance with Technical Specification 6.9 to provide 30-day notification of the subject occurrence.

Very truly yours,

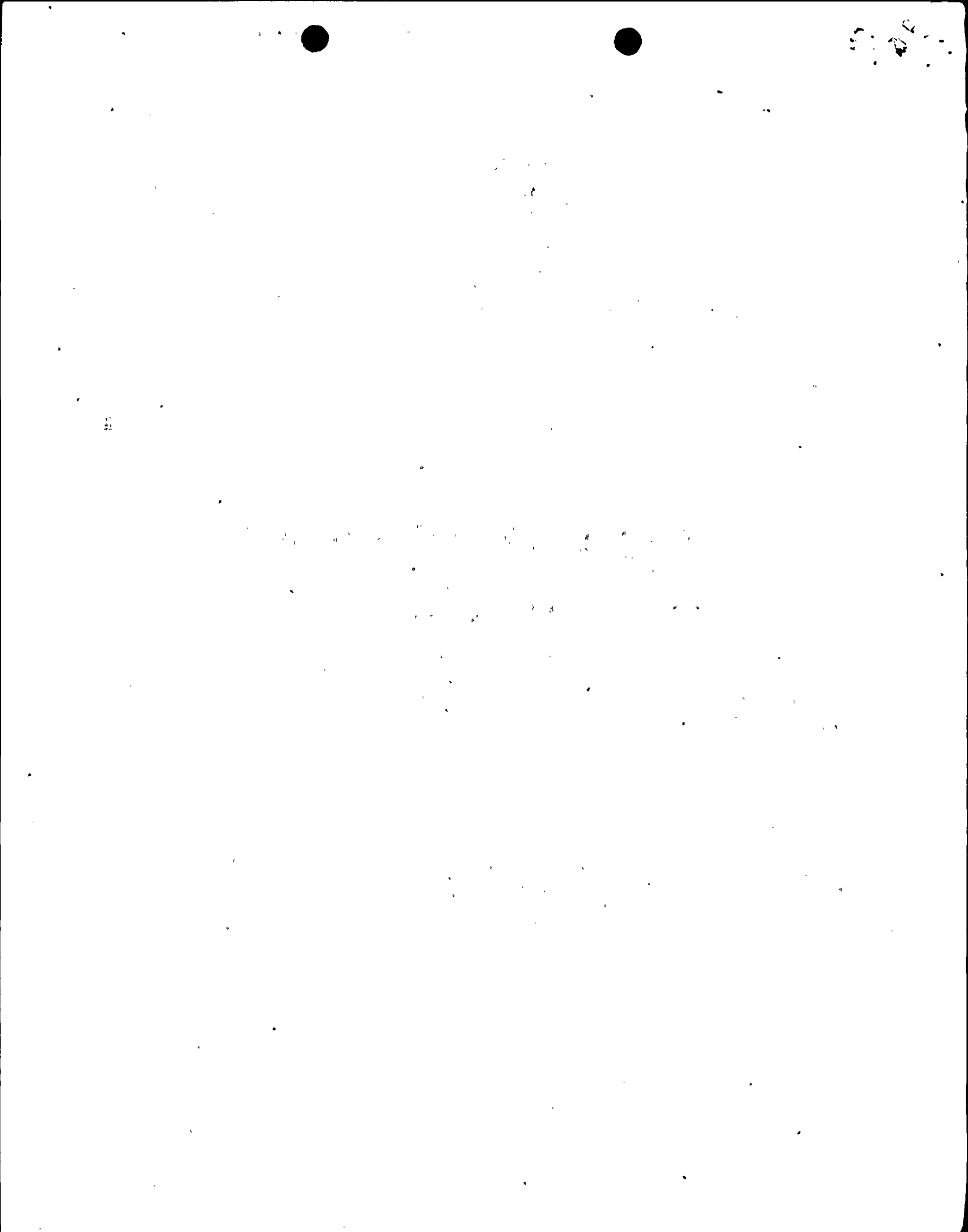
*J. R. Beusen*  
for A. D. Schmidt  
Vice President  
Power Resources

MAS/cmp

Attachment

cc: Robert Lowenstein, Esquire  
Director, Office of Inspection and Enforcement (30)  
Director, Office of Management Information and  
Program Control (3)

770988234



# LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER										LICENSE TYPE					EVENT TYPE					
01	F	L	S	L	S	1	0	0	-	0	0	0	0	0	0	-	0	0	4	1	1	1	1	0	3	
7	8	9			14	15													25	26				30	31	32
CONT		CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER					EVENT DATE				REPORT DATE											
01				L	L	0	5	0	-	0	3	3	5	0	2	2	6	7	7	0	3	2	8	7	7	
7	8		57	58	59	60							68	69					74	75					80	

## EVENT DESCRIPTION

02 | During normal plant operation, power from the SUPS was momentarily lost. This resulted

03 | in the loss of AC power to the computer for the turbine and caused a shift from auto-

04 | matic to manual control of the turbine. Operator action was taken to reduce power

05 | level to 90%. Plant conditions were stabilized and preparations made to return the

06 | turbine controls to automatic. Upon transferring to automatic control, the computer

SYSTEM CODE		CAUSE CODE		COMPONENT CODE					PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER			VIOLATION		
07	H	A	B	I	N	S	T	R	U	0	W	1	2	0	N
7	8	9	10	11	12				17	43	44			47	48

## CAUSE DESCRIPTION

08 | The RCS temperature changes were caused by Steam Flow changes which occurred while

09 | automatically transferring turbine valve control mode. This transfer was not as smooth

10 | as required due to minor inaccuracies in the characteristic curves for sequential valve

FACILITY STATUS		% POWER			OTHER STATUS			METHOD OF DISCOVERY		DISCOVERY DESCRIPTION				
11	B	0	9	9	N/A			A	N/A					
7	8	9	10	12	13			44	45					80

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE			AMOUNT OF ACTIVITY			LOCATION OF RELEASE					
12	Z	Z	N/A			N/A							
7	8	9	10	11			44	45					80

## PERSONNEL EXPOSURES

NUMBER		TYPE		DESCRIPTION									
13	0	0	0	Z	N/A								
7	8	9	11	12	13								80

## PERSONNEL INJURIES

NUMBER		DESCRIPTION											
14	0	0	0	N/A									
7	8	9	11	12									80

## PROBABLE CONSEQUENCES

15 | N/A

## LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION											
16	Z	N/A											
7	8	9	10										80

## PUBLICITY

17 | N/A

## ADDITIONAL FACTORS

18 | See Page Two for continuation of Event and Cause Descriptions.

19 |

NAME: M. A. Schoppman

PHONE: 305/552-3779



[The page contains extremely faint and illegible text, likely bleed-through from the reverse side of the document. The text is scattered across the page and cannot be transcribed accurately.]

12 1 1977 8 20 140

EVENT DESCRIPTION (Cont)

automatically began a transfer from sequential valve control to single valve control. This mode transfer resulted in a steam flow change which caused RCS cold leg temperature to exceed 542 F. Maximum temperature reached was 543 F. RCS cold leg temperature was immediately reduced to less than 542 F as required by Technical Specification 3.2.5.a. Upon completion of transfer to single valve control, plant conditions were stabilized and reactor power was returned to 99.5%.

This is the third occurrence in which cold leg temperature has exceeded 542 F. The two previous events (335-77-1 and 335-77-8) occurred during turbine valve testing, but are related to this event in that all three occurrences were produced by the same cause.

Corrective action to preclude this type event will be to modify the turbine valve characteristic curves used in the turbine control system. Data has been taken and is being evaluated by the vendor with respect to revising the curves. In the interim period until the new curves are available, changes in the turbine control operating procedures have been made to reduce the likelihood of recurrence of this type of event (335-77-13).

CAUSE DESCRIPTION (Cont)

control and single valve control which have been set into the turbine control system.

RECEIVED DOCUMENT  
PROCESSING UNIT

1977 APR 6 PM 1 51