NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER 50-335

FILE NUMBER INCIDENT REPORT

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: N.C.MOSELEY	FROM: FLORDIA PWR & LIGHT CO. MIAMI, FLORDIA 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:	Ziemann		
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LIC. ASST.:	Diss		
W/ 1 CYS			
ACRS 16 CYS ~~HOLDING~~/SENT	As CAT B		

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LPDR: Ft Pierce, Fla			
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CONTROL NUMBER

RD. 4

770980238(60)

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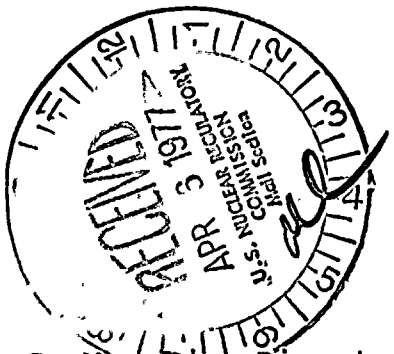

FPL
FLORIDA POWER & LIGHT COMPANY

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,

for J R Benson
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)

7709080234

LICENSEE EVENT REPORT

CONTROL BLOCK: [ ] (1–6)

(PLEASE PRINT ALL REQUIRED INFORMATION)

	LICENSEE NAME	LICENSE NUMBER	LICENSE TYPE	EVENT TYPE
01	FLSLS1	00-00000-00	4111	03
(7–8 / 9–14 / 15–25 / 26–30 / 31–32)				

	CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER	EVENT DATE	REPORT DATE
01 CONT		L	L	05000-335	022677	032877
(7–8)	(57–58)	(59)	(60)	(61–68)	(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	HA	B	INSTRU	0	W120	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	099	N/A	A	N/A
(7–8 / 9 / 10–12 / 13–44 / 45 / 46–80)					

	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	000	Z	N/A
(7–8 / 9–11 / 12 / 13–80)			

PERSONNEL INJURIES

	NUMBER	DESCRIPTION
14	000	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

GPO 881-667

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.