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:	FROM:	DATE OF DOCUMENT
Mr. Norman C. Moseley	Florida Power & Light Company Miami, Florida A. D. Schmidt	3/14/77
		DATE RECEIVED 4/1/77

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DESCRIPTION

Ltr. trans the following:

ACKNOWLEDGED

PLANT NAME: (1-P)

St. Lucie Unit No. 1

RJL

DO NOT REMOVE

ENCLOSURE

Licensee Event Report (RO 50-335/77-8) on 2/13/77 concerning RCS cold leg tenperature exceeding tech spec limit.... (2-P)

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

FOR ACTION/INFORMATION

BRANCH CHIEF:	Ziemann
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CONTROL NUMBER

770940106

A04

GD

P. O. BOX 013100, MIAMI, FL 33101

FLORIDA POWER & LIGHT COMPANY

March 14, 1977

PRN-LI-77-66

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

Dear Mr. Moseley:

REPORTABLE OCCURRENCE 335-77-8
ST. LUCIE UNIT 1
DATE OF OCCURRENCE: FEBRUARY 12, 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 A. D. Schmidt
Vice President
Power Resources

MAS/cpc

Attachment

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

770940106

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 CON'T		L	L	050-0335	021277	031177
(7–8)	(57–58)	(59)	(60)	(61–68)	(69–74)	(75–80)

EVENT DESCRIPTION

02 During a weekly test of the turbine control valves, RCS cold leg temperature exceeded
03 542°F twice. The maximum temperature reached was 543°F. The RCS was above 542°F for
04 less than 5 minutes. Immediate corrective action was to reduce RCS cold leg temperature
05 in compliance with the action statement of specification 3.2.5.a. This was the second
06 reportable occurrence at St. Lucie Unit 1 during which RCS cold leg temperature

	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 turbine load rejections of about 50 Mwe. The
09 load rejections occurred while transferring from sequential valve control to single
10 valve control, and vice-versa. The transfers were not as smooth as they should have

	FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
11	B	089	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 Description and Cause Description.

19

NAME: M. A. Schoppman PHONE: 305/552-3779

GPO 981-667

Event Description (Continued)

exceeded 542°F. (See LER 335-77-1.)

(335-77-8)

Cause Description (Continued)

been because of minor inaccuracies in the characteristic curves for sequential valve control and single valve control which had been set into the turbine control system. The operators were aware of this problem but did not anticipate the magnitude of the transient and had not reduced RCS cold leg temperature sufficiently. Permanent corrective action will be to revise these valve characteristic curves. Data has been taken and is being evaluated by the vendor to determine if more data is needed before revising the curves. Also, the testing procedure has been revised to specify lowering power and RCS cold leg temperature before performing valve testing to help prevent future occurrences of this type.