

50-335

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER
INCIDENT REPORT

TO:

FROM:

Florida Power & Light Company
Miami, Fla.
A. D. Schmidt.

DATE OF DOCUMENT

5/13/77

DATE RECEIVED

6/13/77

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

☒ ORIGINAL☒ UNCLASSIFIED☐ COPY

1516NED

DESCRIPTION

ENCLOSURE

ACKNOWLEDGED

Licensee Event Report (RO 50-335/77-19) on
4/14/77 concerning RCS Gold Leg Temperature.

DO NOT REMOVE

(1-P)

(2-P)

PLANT NAME:

St. Lucie Unit No. 1

RJL 6/14/77

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

FOR ACTION/INFORMATION

BRANCH CHIEF:

ZIEMANN

W/3 CYS FOR ACTION

LIC. ASST.:

DIGGS

W/1 CYS

ACRS 16 CYS HOLDING/SENT AS CAT B

INTERNAL DISTRIBUTION

☒ REG. FILE

NRC PDR

I & E (2)

MIPC

SCHROEDER/IPPOLITO

HOUSTON

NOVAK/CHECK

GRIMES

BUTLER

HANAUER

TEDESCO/MACCARY

EISENHUT

BAER

SHAO

VOLLMER/BUNCH

KREGER/J. COLLINS

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: ET. PIERCE PLD.

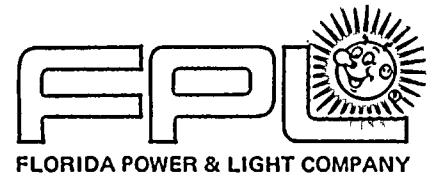
TIC:

NSIC:

771660028

AD 4

60



May 13, 1977

PRN-LI-77-145

REGULATORY DOCKET FILE COPY

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 335-77-19
ST. LUCIE UNIT 1
DATE OF OCCURRENCE: APRIL 14, 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,


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)

771660028

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 6

[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	4	1	1	1	1	0	3																	
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	0	5	0	-	0	3	3	5	0	4	1	4	7	7	0	5	0	6	7	7									
7	8	57	58	59	60	61						68	69						74	75					80								

EVENT DESCRIPTION

02	During normal plant operation, power from the SUPS was lost due to a blown inverter																								80
03	fuse. This caused a shift of turbine control from the automatic mode to the turbine																								80
04	manual mode. The SUPS was immediately re-energized from a SOLA transformer and control																								80
05	power restored. Turbine control was then returned to automatic. Upon transferring to																								80
06	automatic control, the computer automatically began a transfer from sequential valve																								80

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 auto-																								80
09	matically transferring turbine valve control mode. This transfer was not as smooth as																								80
10	required due to minor inaccuracies in the characteristic curves for sequential valve																								80

FACILITY STATUS				% POWER				OTHER STATUS								METHOD OF DISCOVERY				DISCOVERY DESCRIPTION															
11	E	0	9	0	NA								a				NA																		
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			NA								NA																		
7	8	9	10	11									44	45														80			

PERSONNEL EXPOSURES

NUMBER				TYPE		DESCRIPTION																						
13	0	0	0	Z	NA																							
7	8	9	11	12	13																							80

PERSONNEL INJURIES

NUMBER				DESCRIPTION																							
14	0	0	0	NA																							
7	8	9	11	12																							80

PROBABLE CONSEQUENCES

15	NA																								80
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LOSS OR DAMAGE TO FACILITY

TYPE				DESCRIPTION																							
16	Z	NA																									
7	8	9	10																								80

PUBLICITY

17	NA																								80
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ADDITIONAL FACTORS

18	See Page 2 for continuation of Event Description and Cause Description.																								80
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19																									80
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NAME: M. A. Schoppman

PHONE: 305/552-3802

REPORTABLE OCCURRENCE 335-77-19
LICENSEE EVENT REPORT
PAGE TWO

EVENT DESCRIPTION (Continued)

control to single valve control. This mode transfer resulted in a steam flow change which caused RCS cold leg temperature to exceed 542°F. RCS cold leg temperature was immediately reduced to less than 542°F as specified by Technical Specification 3.2.5.a.

This was the fourth occurrence during which T_{cold} exceeded 542°F during the transfer of turbine control mode. Two of them occurred during turbine valve testing (335-77-1 and 335-77-8) and one occurrence involved a similar loss of the SUPS (335-77-13).

Corrective action had been taken due to the previously reported occurrence. New characteristic curves for sequential valve control and single valve control were obtained from the vendor and set into the turbine control system. However, the new curves did not produce the required results, and are currently being re-evaluated by the vendor. Until the revised curves become available, a letter has been promulgated to appropriate plant personnel emphasizing that when restoring the power for turbine control, the computer will automatically transfer control to the single valve mode, and that if the transfer is made with the feedback loops in service, it will be significantly smoother (335-77-19).

CAUSE DESCRIPTION (Continued)

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