

E 05/00/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-335

REC: OREILLY J P
NRC

ORG: SCHMIDT A D
FL PWR & LIGHT

DOCDATE: 04/28/78
DATE RCVD: 05/09/78

DOCTYPE: LETTER NOTARIZED: NO

COPIES RECEIVED

SUBJECT: LTR 1 ENCL 1

FORWARDING LICENSEE EVENT REPT (RO 50-335/78-12) ON 04/16/78 CONCERNING EDDY
CURRENT TESTING PERFORMED ON FUEL ASSEMBLY CEA GUIDE TUBES AT UNIT 1, SHOWED
WEAR IN THE GUIDE TUBES WHERE THE TIPS OF THE FULLY WITHDRAWN CEAS WERE
LOCATED.

PLANT NAME: ST LUCIE #1

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: W

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

INCIDENT REPORTS
(DISTRIBUTION CODE A002)

FOR ACTION: BR CHIEF REID**W/4 ENCL

INTERNAL: REG FILE**W/ENCL
~~I & E**W/2 ENCL~~
SCHROEDER/IPPOLITO**W/ENCL
NOVAK/CHECK**W/ENCL
KNIGHT**W/ENCL
HANAUER**W/ENCL
EISENHUT**W/ENCL
SHAO**W/ENCL
KREGER/J. COLLINS**W/ENCL
K SEYFRIT/IE**W/ENCL

NRC PDR**W/ENCL
MIPC**W/3 ENCL
HOUSTON**W/ENCL
EEB**W/ENCL
BUTLER**W/ENCL
TEDESCO**W/ENCL
BAER**W/ENCL
VOLLMER/BUNCH**W/ENCL
ROSA**W/ENCL

EXTERNAL: LPDR'S
FT PIERCE, FL**W/ENCL
TIC**W/ENCL
NSIC**W/ENCL
ACRS CAT B**W/16 ENCL

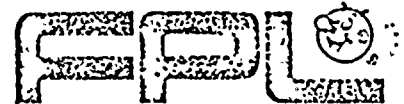
COPIES NOT SUBMITTED PER
REGULATORY GUIDE 10.1

DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+2P

CONTROL NBR: 781300091

AD 4
60

***** THE END *****



FLORIDA POWER & LIGHT COMPANY

April 28, 1978

PRN-LI-78-124

RECEIVED DISTRIBUTION
SERVICES UNIT

1978 MAY 9 AM 10 04

US NRC
DISTRIBUTION SERVICES
BRANCH

Mr. James P. O'Reilly, 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. O'Reilly:

REPORTABLE OCCURRENCE 335-78-12
ST. LUCIE UNIT 1
DATE OF OCCURRENCE: APRIL 16, 1978

TECHNICAL SPECIFICATION 6.9.1.8.i
CEA GUIDE TUBE WEAR

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

Very truly yours,

for JRB
A. D. Schmidt
Vice President
Power Resources

MAS/mb

Attachment

cc: Robert Lowenstein, Esquire
Director, Office of Inspection and Enforcement (40)
Director, Office of Management Information and
Program Control (3)

781300091

A002
5/11

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 1	
7	8	9								14	15								25	26				30	31	32

CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER					EVENT DATE					REPORT DATE												
01 CONT		T	L	0 5 0 - 0 3 3 5					0 4 1 6 7 8					0 4 2 8 7 8												
7	8	57	58	59	60	61					68					69					74	75				80

EVENT DESCRIPTION

02	7	8	9	Due to reports of CEA guide tube wear from other licensees, Eddy Current Testing (ECT)																																																																														80
03	7	8	9	was performed on fuel assembly CEA guide tubes at St. Lucie Unit 1. All assemblies																																																																														80
04	7	8	9	which had been under CEAs in Cycle 1 were tested. Based on the results of that testing,																																																																														80
05	7	8	9	more detailed ECT was performed on 22 assemblies. ECT has shown that there is wear in																																																																														80
06	7	8	9	the guide tubes where the tips of the fully withdrawn CEAs were located. The wear may																																																																														80

SYSTEM CODE			CAUSE CODE		COMPONENT CODE					PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER					VIOLATION	
07 R C			B		F U E L X X					N		C 4 9 0					N	
7	8	9	10	11	12	17					43	44	47					48

CAUSE DESCRIPTION

08	7	8	9	The apparent cause is flow induced vibration of the CEA fingers. A detailed report																																																																														80
09	7	8	9	discussing the problem and its solution(s) will be submitted to the NRC to support																																																																														80
10	7	8	9	startup and power operation. The report will be submitted in lieu of a supplementary																																																																														80

FACILITY STATUS		% POWER			OTHER STATUS			METHOD OF DISCOVERY		DISCOVERY DESCRIPTION									
11 H		0 0 0			N/A			c		Information from other Licensees									
7	8	9	10	11	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										60

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	7	8	9	N/A																																																																														80
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LOSS OR DAMAGE TO FACILITY

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

PUBLICITY

17	7	8	9	N/A																																																																														80
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ADDITIONAL FACTORS

18	7	8	9	See page 2 for continuation of Event and Cause Descriptions.																																																																														80
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19	7	8	9																																																																															80
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NAME: M. A. Schoppman PHONE: 305-552-3802

REPORTABLE OCCURRENCE 335-78-12
LICENSEE EVENT REPORT
PAGE TWO

EVENT DESCRIPTION (Continued)

have resulted in through-wall penetrations in some cases. Although the final reduced data is not yet available, testing has shown that up to 6 assemblies will require special handling. Stainless steel sleeves with a chrome plated wear surface either have been or will be installed in all assemblies which will be used under CEAs in Cycle 2 and in some or all of the 22 assemblies which received detailed ECT analysis. Only 1 assembly which was under a CEA in Cycle 1 will be under a CEA in Cycle 2. This assembly will be chosen based on minimum wear considerations. The NSSS vendor has provided the NRC with detailed reports for other licensees who have experienced guide tube wear, and is of the opinion that any guide tube wear observed at St. Lucie Unit 1 will be bounded by (or will be less serious than) the observations and analyses for the other licensees.

CAUSE DESCRIPTION (Continued)

Licensee Event Report by about May 1, 1978. The report is entitled "St. Lucie Unit 1 Reactor Operation with Modified CEA Guide Tubes" and is numbered CEN-90(F)-P.