

E 05/01/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)  
DISTRIBUTION FOR INCOMING MATERIAL 50-335

REC: OREILLY J P                      ORG: SCHMIDT A D                      DOCDATE: 04/28/78  
NRC                                      FL PWR & LIGHT                      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WEAR IN THE GUIDE TUBES WHERE THE TIPS OF THE FULLY WITHDRAWN CEA'S WERE  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~~  
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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                      CONTROL NBR: 781300091  
SIZE: 1P+2P

AD 4  
60

\*\*\*\*\* THE END \*\*\*\*\*



7

REGULATORY DOCKET FILE COPY



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  
S/11

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

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(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	25	26	30	31	32													80							
01		CONT		CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER					EVENT DATE				REPORT DATE											
01	7	8	57	58	T	59	L	60	0	5	0	-	0	3	3	5	69	0	4	1	6	7	8	0	4	2	8	7	8	80

## EVENT DESCRIPTION

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

## CAUSE DESCRIPTION

08 | The apparent cause is flow induced vibration of the CEA fingers. A detailed report | 80  
09 | discussing the problem and its solution(s) will be submitted to the NRC to support | 80  
10 | 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	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								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 | 80

## LOSS OR DAMAGE TO FACILITY

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

## PUBLICITY

17 | N/A | 80

## ADDITIONAL FACTORS

18 | See page 2 for continuation of Event and Cause Descriptions. | 80

19 | | 80

NAME: M. A. Schoppman PHONE: 305-552-3802

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.