

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WEAR IN THE GUIDE TUBES WHERE THE TIPS OF THE FULLY WITHDRAWN CEAS WERE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 CONTROL NBR: 781300091
SIZE: 1P+2P

AD 4
60

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



7

REGULATORY DOCKET FILE COPY



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	26				30	31	32
01 CONT		CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER					EVENT DATE					REPORT DATE									
01				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	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

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					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
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LOSS OR DAMAGE TO FACILITY

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

PUBLICITY

17	N/A																							80
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ADDITIONAL FACTORS

18	See page 2 for continuation of Event and Cause Descriptions.																							80
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19																								80
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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.