

W 08/01/78

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

REC: OREILLY J P  
NRC

ORG: SCHMIDT A D  
FL PWR & LIGHT

DOC DATE: 07/24/78  
DATE RCVD: 08/01/78

DOCTYPE: LETTER NOTARIZED: NO  
SUBJECT:

COPIES RECEIVED  
LTR 1 ENCL 1

FORWARDING LICENSEE EVENT REPT (RO 50-335/78-024) ON 06/25/78 CONCERNING  
DURING PLANT STARTUP FROM A SHORT MAINTENANCE, DOSE EQUIVALENT IODINE  
EXCEEDED TECH SPEC 3.4.8. A LIMIT OF 1.0 UCI/GRAM DOSE EQUIVALENT  
I-131... W/ATT.

PLANT NAME: ST LUCIE #1

REVIEWER INITIAL: XJM  
DISTRIBUTOR INITIAL: DL

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

INCIDENT REPORTS  
(DISTRIBUTION CODE A002)

FOR ACTION: BR CHIEF ORB#4 BC\*\*W/4 ENCL

INTERNAL:

REG FILE\*\*W ENCL  
I & E\*\*W/2 ENCL  
I & C SYSTEMS BR\*\*W/ENCL  
NOVAK/CHECK\*\*W/ENCL  
AD FOR ENG\*\*W/ENCL  
HANAUER\*\*W/ENCL  
AD FOR SYS & PROJ\*\*W/ENCL  
ENGINEERING BR\*\*W/ENCL  
KREGER/J. COLLINS\*\*W/ENCL  
K SEYFRIT/IE\*\*W/ENCL

NRC PDR\*\*W/ENCL  
MIPC\*\*W/3 ENCL  
EMERGENCY PLAN BR\*\*W/ENCL  
EEB\*\*W/ENCL  
PLANT SYSTEMS BR\*\*W/ENCL  
AD FOR PLANT SYSTEMS\*\*W/ENCL  
REACTOR SAFETY BR\*\*W/ENCL  
VOLLMER/BUNCH\*\*W/ENCL  
POWER SYS BR\*\*W/ENCL

EXTERNAL:

LPDR'S  
FT PIERCE, FL\*\*W/ENCL  
TIC, LIZ CARTER\*\*W/ENCL  
NSIC\*\*W/ENCL  
ACRS CAT B\*\*W/16 ENCL

DISTRIBUTION: LTR 45 ENCL 45  
SIZE: 1P+1P+3P

CONTROL NBR: 782140106

AO 4  
50

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



THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT  
5720 S. UNIVERSITY AVE.  
CHICAGO, ILL. 60637

OFFICE OF THE DEAN

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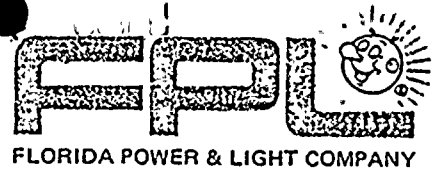
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July 24, 1978

PRN-LI-78-198

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 335-78-24  
ST. LUCIE UNIT 1  
DATE OF OCCURRENCE: JUNE 25, 1978

TECHNICAL SPECIFICATION 3.4.8.a  
DOSE EQUIVALENT I-131

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: Harold F. Reis, Esquire  
Director, Office of Inspection and Enforcement (30)  
✓ Director, Office of Management Information and  
Program Control (3)

782140106

ADD 2  
5/11



SUPPLEMENTARY INFORMATION  
TECHNICAL SPECIFICATION REPORT  
DOSE EQUIVALENT IODINE

1. Reactor power history starting 48 hours prior to the first sample in which the limit was exceeded.

<u>DATE</u>	<u>TIME</u>	<u>AVERAGE REACTOR POWER</u>
6/23/78	1900 to	97.1% (steady state)
6/24/78	2000	
6/24/78	2100	61.0%
6/24/78	2200	20.0%
6/24/78	2300 to	0.0% (plant outage)
6/25/78	1400	
6/25/78	1500	38.5%
6/25/78	1600	66.3%
6/25/78	1700	90.0%
6/25/78	1800	95.0%
6/25/78	1900**	97.0%

Additional Power History: 20% - 80% from June 1 to June 12, 1978  
98% - 100% from June 13 to June 24, 1978  
(DEQ I-131; 2.0 - 4.5 E-1  $\mu$ Ci/gram)

\*\*First DEQ Iodine Sample >1.0  $\mu$ Ci/gram.

SUPPLEMENTARY INFORMATION (Cont)

2. Fuel burnup by core region.

Fuel burnup by octants:

Region 1	-	10945.0	
Region 2	-	10893.7	
Region 3	-	10781.0	Average Burnup in
Region 4	-	10876.5	Megawatt Days per
Region 5	-	10783.6	Metric Ton Uranium
Region 6	-	10798.3	(MWD/MTU)
Region 7	-	10752.0	
Region 8	-	10868.8	

Total Core Average Burnup - 10837.4

3. Clean-up flow history starting 48 hours prior to the first sample in which the limit was exceeded.

From 1900 on 6/23/78 until 2100 on 6/24/78, purification flow rate was ~82 gpm (two charging pumps).

At 2300 on 6/24/78, purification flow rate was reduced to 52 gpm.

From 2400 on 6/24/78 until 0300 on 6/25/78, purification flow rate was ~40 gpm (one charging pump).

At 0400 on 6/25/78, purification flow rate was increased to 58 gpm.

From 0500 on 6/25/78 until 1900 on 6/25/78, purification flow rate was ~86 gpm (two charging pumps).

NOTE: Clean-up demineralization consisted of a mixed bed at a 1:1 ratio, cation to anion, with a bed volume of 36 cubic feet.

4. History of de-gassing operation starting 48 hours prior to the first sample in which the limit was exceeded.

No degassing operations were performed within the above 48-hour time span.

## SUPPLEMENTARY INFORMATION (Cont)

5. The time duration when the specific activity of the primary coolant exceeded 1.0 uCi/gram DEQ I-131.

Iodine 131 Dose Equivalent was greater than 1.0 uCi/gram from 6/25/78 at 1900 until 6/26/78 at 0030. The total time above 1.0 uCi/gram was 5.50 hours.

6. Results of Specific Activity Analysis (uCi/gram).

<u>DATE</u>	<u>TIME</u>	<u>I-131</u>	<u>I-132</u>	<u>I-133</u>	<u>I-135</u>	<u>DEQ</u>
6/25/78	0215	2.249 E-1	9.64 E-2	3.322 E-1	1.311 E-1	3.291 E-1
6/25/78	1900	1.024 E-0	8.12 E-2	6.963 E-1	9.04 E-2	1.222 E-0
6/25/78	2010	1.120 E-0	7.38 E-2	7.500 E-1	9.33 E-2	1.333 E-0
6/26/78	0030	7.736 E-1	3.01 E-2	4.724 E-1	4.92 E-2	9.064 E-1
6/26/78	0615	4.708 E-1	1.93 E-2	2.393 E-1	3.01 E-2	5.386 E-1