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**RESPONSE TO FREEDOM OF
INFORMATION ACT (FOIA) REQUEST**

FOIA — 96-485

RESPONSE TYPE

FINAL

☒ PARTIAL (25th)

DATE

APR 07 1997

DOCKET NUMBER(S) (if applicable)

REQUESTER

Neil S. Binder

PART I.—AGENCY RECORDS RELEASED OR NOT LOCATED (See checked boxes)

No agency records subject to the request have been located.

No additional agency records subject to the request have been located.

Requested records are available through another public distribution program. See Comments section.

Agency records subject to the request that are identified in Appendix(es) _____ are already available for public inspection and copying at the NRC Public Document Room, 2120 L Street, N.W., Washington, DC.

☒ Agency records subject to the request that are identified in Appendix(es) EEE are being made available for public inspection and copying at the NRC Public Document Room, 2120 L Street, N.W., Washington, DC, in a folder under this FOIA number.

The nonproprietary version of the proposal(s) that you agreed to accept in a telephone conversation with a member of my staff is now being made available for public inspection and copying at the NRC Public Document Room, 2120 L Street, N.W., Washington, DC, in a folder under this FOIA number.

Agency records subject to the request that are identified in Appendix(es) _____ may be inspected and copied at the NRC Local Public Document Room identified in the Comments section.

Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 2120 L Street, N.W., Washington, DC.

☒ Agency records subject to the request are enclosed. *

Records subject to the request have been referred to another Federal agency(ies) for review and direct response to you.

Fees

You will be billed by the NRC for fees totaling \$ _____.

You will receive a refund from the NRC in the amount of \$ _____.

In view of NRC's response to this request, no further action is being taken on appeal letter dated _____, No. _____.

PART II. A—INFORMATION WITHHELD FROM PUBLIC DISCLOSURE

Certain information in the requested records is being withheld from public disclosure pursuant to the exemptions described in and for the reasons stated in Part II, B, C, and D. Any released portions of the documents for which only part of the record is being withheld are being made available for public inspection and copying in the NRC Public Document Room, 2120 L Street, N.W., Washington, DC in a folder under this FOIA number.

COMMENTS

*Copies of the records identified on Appendix EEE are enclosed.

Handwritten: *of 1*
FOIA

SIGNATURE, DIRECTOR, DIVISION OF FREEDOM OF INFORMATION AND PUBLICATIONS SERVICES

9704090188 970407
PDR FOIA
BINDER96-485 PDR



APPENDIX EEE
RECORDS BEING RELEASED IN THEIR ENTIRETY

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
1.	Undated	EA Number Request Form (1 page)
2.	12/29/94	EICS Notes (3 pages)
3.	4/9/93	EICS Notes (8 pages)
4.	Undated	Escalated Enforcement Panel Questionnaire. (Prepared by R Prevatte) (40 pages)
5.	10/7/96	EICS Enforcement Worksheet (4 pages)
6.	Undated	Escalated Enforcement Panel Questionnaire (Prepared by Kleinsorge/Blake (6 pages)
7.	7/3/96	Enforcement Action Worksheet (Prepared by Mark Miller) (11 pages)
8.	4/8/96	Enforcement Action Worksheet (Prepared by Mark Miller) (9 pages)
9.	10/28/96	Enforcement Action Worksheet (Prepared by John York) (12 pages)
10.	10/28/96	Enforcement Action Worksheet (Prepared by John York) (3 pages)
11.	6/2/96	EICS Staff Notes (2 pages)
12.	10/7/96	EICS Enforcement Worksheet (4 pages)
13.	10/2/96	Memorandum to Harold Christensen from William Holland Subject: Maintenance Rule Enforcement Panel (19 pages)
14.	11/12/96	Draft Notice of Violation Revised (2 pages)
15.	7/17/96	EICS Staff Notes (1 page)
16.	9/12/94	EICS Staff Notes (3 pages)
17.	11/3/94	EIC Staff Notes (2 pages)
18.	5/17/95	EICS Staff Notes (2 pages)

19. 3/8/96 EICS Staff Notes (5 pages)
20. 3/4/96 EICS Staff Notes (4 pages)
21. 3/8/96 EICS Staff Notes (3 pages)
22. Undated EA Number Request Form (1 page)
23. Undated Escalated Enforcement Action Processing Sheet (2 pages)
24. Undated Escalated Enforcement Panel Questionnaire (12 pages)
25. Undated Escalated Enforcement Panel Questionnaire (9 pages)
26. 6/25/96 Enforcement Action Worksheet (Prepared by Mark Miller) (13 pages)
27. Undated Escalated Enforcement Panel Questionnaire (Prepared by R Prevatte) (12 pages)
28. 5/16/95 Escalated Enforcement Panel Questionnaire (5 pages)
29. Undated Escalated Enforcement Panel Questionnaire (Prepared by R Prevatte) (7 pages)
30. Undated Escalated Enforcement panel Questionnaire (Prepared by R L Prevatte) (14 pages)
31. Undated Escalated Enforcement Panel Questionnaire (Prepared by Mark Miller) (11 pages)
32. Undated Notice of Violation (2 pages)
33. 7/7/96 Enforcement Action Worksheet (Prepared by John York) (11 pages)
34. Undated Escalated Enforcement Panel Questionnaire (Prepared by R Prevatte) (6 pages)
35. 10/30/96 Enforcement Action Worksheet (Prepared by Lori Stratton) (7 pages)
36. Undated Escalated Enforcement Panel Questionnaire (Prepared by S A Elrod) (7 pages)
37. 10/6/95 EICS Staff Notes (2 pages)
38. 5/16/95 Escalated Enforcement Panel Questionnaire (5 pages)
39. 5/19/95 EICS Staff Notes (2 pages)
40. 5/19/95 EICS Staff Notes (2 pages)

41. 5/19/95 EICS Staff Notes (3 pages)
42. 5/17/95 EICS Staff Notes (3 pages)
43. Undated Escalated Enforcement Panel Questionnaire (16 pages)
44. 11/3/94 EICS Staff Notes (4 pages)
45. Undated Escalated Enforcement Panel Questionnaire (Prepared by Mark Miller) (10 pages)
46. 8/17/94 EICS Staff Notes (20 pages)
47. 8/17/94 EICS Staff Notes (20 pages)
48. 9/12/94 EICS Staff Notes (2 pages)
49. Undated Escalated Enforcement Panel Questionnaire (12 pages)
50. 11/7/96 Enforcement Action Worksheet (Prepared by James Kreh) (9 pages)
51. 10/30/96 Enforcement Action Worksheet (Prepared by Lori Stratton) (8 pages)
52. Undated Reference Document Checklist, Region II Enforcement and Investigations Coordination Staff (2 pages)
53. Undated Escalated Enforcement Panel Questionnaire (15 pages)
54. Undated Memorandum to J Lieberman from S Ebnetter re: EA 95-180 (16 pages)
55. Undated Enforcement Action Worksheet (4 pages)
56. Undated Enforcement Action Worksheet (4 pages)
57. 8/30/96 Memorandum to J Lieberman from S Ebnetter, Re: EA 96-236 and 96-249 (13 pages)
58. 8/30/96 Memorandum to J Lieberman from S Ebnetter, Re: EA 96-236 and 96-249 (13 pages)
59. 7/7/96 Enforcement Action Worksheet (Prepared by John York) (12 pages)
60. 2/5/96 Enforcement Action Worksheet (Prepared by R Schin) (19 pages)
61. 8/30/96 Memorandum to J Lieberman from S Ebnetter, Re: EA 96-236 and 96-249 (14 pages)

62. 2/5/96 Enforcement Action Worksheet (Prepared by R Schin)
(18 pages)
63. 10/30/96 Enforcement Action Worksheet (Prepared b Lori Stratton)
(9 pages)
64. 12/9/96 EICS Enforcement Worksheet (2 pages)
65. 11/7/96 EICS Enforcement Worksheet (2 pages)
66. 11/7/96 EICS Enforcement Worksheet (5 pages)
67. 12/10/96 EICS Enforcement Worksheet (4 pages)
68. Undated EICS Enforcement Worksheet (4 pages)
69. 12/10/96 EICS Enforcement Worksheet (4 pages)
70. 10/6/95 EICS Staff Notes (3 pages)
71. 10/11/95 Memorandum to J Lieberman from S Ebnetter. Re: EA 95-180
(16 pages)
72. 8/23/95 EICS Staff Notes (3 pages)
73. 8/23/95 EICS Staff Notes (5 pages)
74. 8/23/95 EICS Staff Notes (2 pages)
75. 9/25/95 EICS Staff Notes (4 pages)
76. 9/25/95 EICS Staff Notes (3 pages)
77. Undated EA Number Request Form (1 page)
78. 10/6/95 Notes (45 pages)
79. Undated Pages 6 and 7 (2 pages)
80. 12/10/96 NRC Closed Predecisional Enforcement Conference
(140 pages)
81. 11/7/96 Enforcement Action Worksheet (14 pages)
82. 11/13/96 EICS Enforcement Worksheet (4 pages)
83. 11/13/96 EICS Enforcement Worksheet (3 pages)
84. 12/9/96 EICS Enforcement Worksheet (4 pages)
85. 12/10/96 EICS Enforcement Worksheet (4 pages)

86. 12/10/96 EICS Enforcement Worksheet (4 pages)
87. 7/23/96 EICS Enforcement Worksheet (4 pages)
88. 12/10/96 EICS Enforcement Worksheet (4 pages)
89. Undated Violation 1 with two examples, Violation 2 with two examples (17 pages)
90. 11/6/96 EICS Enforcement Worksheet (4 pages)
91. 12/10/96 EICS Enforcement Worksheet (4 pages)
92. 12/10/96 EICS Enforcement Worksheet (4 pages)
93. 10/18/96 EICS Enforcement Worksheet (4 pages)
94. 11/6/96 EICS Enforcement Worksheet (6 pages)
95. 12/10/96 EICS Enforcement Worksheet (4 pages)
96. Undated Quality Instruction Change Notice (25 pages)
97. 7/16/96 EICS Enforcement Worksheet (4 pages)
98. 7/11/96 Enforcement Action Worksheet (Prepared by Joel Munday) (7 pages)
99. Undated OE Understanding and EA Request Form (1 page)
100. 7/23/96 EICS Enforcement Worksheet (27 pages)
101. 8/30/96 Memorandum to J Lieberman from S Ebnetter, Re: EA 96-236 and 96-249 (14 pages)
102. 7/10/96 EICS Enforcement Worksheet (17 pages)
103. 7/7/96 Enforcement Action Worksheet (Prepared by John York) (11 pages)
104. 8/19/96 EICS Enforcement Worksheet (4 pages)
105. Undated Draft Letter to FP&L from S Ebnetter (22 pages)
106. 8/30/96 Memorandum to J Lieberman from S Ebnetter, Re: EA 96-236 and EA 96-249 (12 pages)
107. 8/19/96 EICS Enforcement Worksheet (4 pages)
108. 7/3/96 EICS Enforcement Worksheet (4 pages)
109. 7/1/96 Enforcement Action Worksheet (13 pages)

- 110. 7/3/96 EICS Enforcement Worksheet (3 pages)
- 111. 8/22/96 EICS Enforcement Worksheet (4 pages)
- 112. 8/19/96 EICS Enforcement Worksheet (4 pages)
- 113. Undated Escalated Enforcement Panel Questionnaire (Prepared by L. Prevatte) (12 pages)
- 114. Undated Escalated Enforcement Panel Questionnaire (Prepared by L. Prevatte) (16 pages)
- 115. Undated Escalated Enforcement Panel Questionnaire (1 page)
- 116. 3/23/95 EICS Staff Notes (16 pages)
- 117. 3/23/95 EICS Staff Notes (11 pages)
- 118. 5/17/95 EICS Staff Notes (7 pages)
- 119. 11/14/95 NRC Closed Predecisional Enforcement Conference (53 pages)
- 120. Undated Regional Package Evaluation Sheet (53 pages)
- 121. Undated Notes (74 pages)
- 122. 5/23/96 E-Mail from L. Wiens to M. Miller, Subject: TS Issue (4 pages)
- 123. 10/28/94 Memorandum to B. Boger from J. Zwolinski, Subject: Request for Assistance in Addressing Issues Regarding St. Lucie Units 1 and 2 Refueling Procedures - TIA 94-023- (TAC Nos. M90425 and M90246) (3 pages)
- 124. Undated Memorandum to J. Shea from J. Norris, Subject: St. Lucie Units 1 and 2 - Spent Fuel Pool Survey (6 pages)
- 125. 8/6/96 Memorandum to J. Johnson from F. Hebdon, Subject: Technical Assistance Request (TIA 95-013) In Addressing Issues Relating to the Adequacy of a 50.59 Evaluation at St. Lucie Unit 2 (7 pages)
- 126. 7/12/96 Memorandum for S. Ebner from W. Russell, Subject: Instituting N+1 At St. Lucie (1 page)
- 127. 7/15/96 E-Mail from B. Uryc to O. EMail with enclosures (15 pages)
- 128. 7/2/96 Memorandum to J. Johnson from F. Hebdon, Subject: Technical Assistance Request (TIA 96-007) Regulatory Acceptability of Lubricating Valves Prior to Surveillance Testing (6 pages)

- 129. 10/30/95 E-Mail from J Dockery to B Uryc. Subject: RII-95-A-0026 (1 page)
- 130. 1/17/96 E-Mail from J Dockery to L Watson. Subject: Phipps DOL Case (1 page)
- 131. 8/5/96 Memorandum to S Ebnetter from W. McNulty. Subject: St. Lucie Nuclear Plant: Alleged Discrimination Against Instrumentation and Control Technician for Reporting Safety Concerns (Case 2-95-008/RII-95-A-0026) (1 page)
- 132. 11/7/95 E-Mail from G Meyer to L Watson et al.. Subject: St. Lucie Enf Discretion Approved (1 page)
- 133. 10/27/95 E-Mail from G Meyer to K Landis et al.. Subject: Taylor's Questions on St. Lucie Enf Discr (1 page)
- 134. 10/27/95 E-Mail from G Meyer to K Landis et al.. Subject: Taylor's Questions on St. Lucie Enf Discr (1 page)
- 135. 10/27/95 E-Mail from G Meyer to K Landis et al.. Subject: Taylor's Questions on St. Lucie Enf Discr (1 page)
- 136. 10/30/95 E-Mail from G Meyer to J Beall et al.. Subject: Status of St. Lucie Enforcement (4 pages)
- 137. 7/18/96 Memorandum to DRP Branch Chiefs from J Johnson. Subject: Distribution of Article from the Christian Science Monitor (8 pages)
- 138. Undated Memorandum to H Miller et al., from M Hodges. Subject: IPE Senior Review Board September Meeting Agenda (48 pages)
- 139. 9/20/95 Memorandum to S Varga et al., from B Boger. Subject: Human Performance Information for SMM Prebriefings (20 pages)
- 140. Undated Commission Briefing Paper (8 pages) **TWO PAGES OUTSIDE SCOPE**
- 141. 6/11/93 Memorandum for M Leach et al., from L Plisco. Subject: Florida Power and Light Company Official Visit With the Chairman and Commissioners (5 pages) **TWO PAGES OUTSIDE SCOPE**

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November 14, 1996

Russell Powell
Chief of the FOIA/LPDR
Nuclear Regulatory Commission
Mail Stop T6D8
Washington, D.C. 20555-0001

FOIA/PA REQUEST

Case No. 96-485
Date Rec'd. 11-19-96
Action Off. FOOL
Related Case

Dear Mr. Powell:


This is a request under the Freedom of Information Act, 5 U.S.C. § 552. I request that a copy of all records and other documents that fit the following description be sent to me:

- 1) All records or other documents from January 1, 1993 to the present that are not currently in the public documents room and that relate to Florida Power and Light's St. Lucie Nuclear Power Plant (Unit 1 and/or Unit 2).
- 2) The number of inspection hours (by quarter) devoted by the NRC to all licensed nuclear plants in region 2 since January 1, 1993.

In order to help determine my status for the purpose of assessing any fees, you should be advised that I represent a company, and I am seeking information for use related to the company's business.

Please advise me of any fees associated with processing this request.

Sincerely,



Neil S. Binder

9701310287 /p.



August 2, 1994

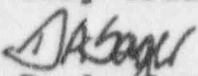
L-94-197

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Re: St. Lucie Unit 2
Docket No. 50-389
Reportable Event: 94-006
Date of Event: July 14, 1994
Trip Circuit Breaker Failure due to a Broken Piece
of Phenolic Block Logged in the Trip Latch Mechanism.

The attached Licensee Event Report is being submitted voluntarily
to provide notification of the subject event.

Very truly yours,


D. A. Sager
Vice President
St. Lucie Plant

DAS/JWH/kw

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, USNRC Region II
Senior Resident Inspector, USNRC, St. Lucie Plant

DAS/PSL #1176-94

AUG 5
11:29

9408110089 fpl

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MMRB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) St. Lucie Unit 2 DOCKET NUMBER (2) 05000389 PAGE (3) 1 OF 6

TITLE (4) Trip Circuit Breaker Failure due to a Broken Piece of Phenolic Block Lodged in the Trip Latch Mechanism.

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
7	14	94	94	--006--	0	8	2	94	N/A	
OPERATING MODE (9)		1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
POWER LEVEL (10)		100	20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)	
			20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)	
			20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		<input checked="" type="checkbox"/> OTHER	
			20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		(Specify in Abstract below and in text, NRC Form 366A)	
			20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(vii)(B)			
			20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)			

LICENSEE CONTACT FOR THIS LER (12)

NAME Edward E. Lyons, Shift Technical Advisor TELEPHONE NUMBER (Include Area Code) (407) 465-3550 x3151

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

IE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS
B	AA	BKR	G080	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES
(If yes, complete EXPECTED SUBMISSION DATE).

X NO

EXPECTED
SUBMISSION
DATE (15)

MONTH DAY YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On 7/14/94, Unit 2 utility licensed Reactor Operators commenced the Reactor Protective System periodic logic matrix test. While testing the fourth logic matrix (AC matrix), Trip Circuit Breaker (TCB) Five failed to open. TCB-5 had opened three times previously on demand from other matrix tests. Following several attempts to open TCB-5, it was declared out of service. The reactor was shut down to repair or replace TCB-5.

The cause of the failure of TCB-5 to trip has been identified as obstruction of motion on the trip latch lever due to a broken piece of insulating material. A small piece of broken phenolic insulating material approximately 1/4 inch square in size was found lodged between the trip latch lever and the access slot in the base for the trip latch. The phenolic fragment was found to have originated from the cutoff switch used in the breaker anti-pump circuitry, which is physically located directly above the trip latch mechanism. Upon further inspection, it was determined that a screw used in the assembly of the cutoff switch had become loose. This screw holds the switch to the mounting block and if loose will allow the two halves of the switch to separate when the breaker is operated. This most likely led to switch misalignment and breakage of the phenolic block.

Corrective Actions include: 1) Electrical Maintenance (EM), FPL Engineering and a GE representative inspected the remaining Unit 2 TCBs and the MG Set Output Breakers with satisfactory results. 2) EM will inspect Unit 1 TCBs during the next scheduled quarterly maintenance and the MG Set Output Breakers during the next scheduled periodic maintenance. 3) EM has incorporated the inspection of the cutoff switch phenolic block and screw into Unit 1 & 2 periodic maintenance procedures.

This is a voluntary Licensee Event Report for industry informational purposes.

NRC FORM 366A (5-92)

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (NRCB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)		DOCKET NUMBER (2)		LER NUMBER (6)			PAGE (3)
St. Lucie Unit 2		05000389		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 6
				94	--006--	0	

TEXT (if more space is required, use additional copies of NRC Form 366A) (17)

DESCRIPTION OF THE EVENT:

On 7/14/94 at 0200, Unit 2 utility licensed Reactor Operators commenced OP 2-1400059, Reactor Protective System Periodic Logic Matrix Test. At 0230, while testing the fourth logic matrix (AC matrix) of the Reactor Protective System (RPS)(EHC:JC), Trip Circuit Breaker (TCB) Five (See Figure One)(EHC:AA) failed to open. TCB-5 had just opened three times previously on other matrix tests.

The utility licensed Senior Reactor Operator attempted to open TCB-5 locally with the local pushbutton, the emergency pushbutton and by pulling the breaker fuses. All attempts were unsuccessful. The Reactor Trip pushbutton for channel MA TCBs 1 and 5 was depressed without success. At 0330 TCB-5 was declared out of service. TCBs 1, 2 and 6 were opened at 0418, which opened the series breaker and the parallel supply path to the Control Element Drive Mechanism bus (EHC:AA) on the "A" side.

At 0740 a reactor shut down was commenced in order to repair or replace TCB-5. The TCBs and the CEA Bus Motor Generator (MG) Set Output Breakers (EHC:ED) are General Electric (GE) Type AK 2-25. TCB-5 was replaced and the remaining Unit 2 TCBs and MG Set Output Breakers were inspected satisfactorily. Unit 2 was then restored to 100% steady power operations.

CAUSE OF THE EVENT:

The cause of the failure of TCB-5 to trip has been identified as obstruction of motion on the trip latch lever. A small piece of broken phenolic insulating material approximately 1/4 inch square in size was found lodged between the trip latch lever and the access slot in the base for the trip latch. When the breaker was called upon to trip, electrically or manually, the phenolic piece restricted the motion of the trip latch lever such that the breaker mechanism would not operate. Upon the removal of the phenolic fragment, the breaker immediately tripped open and was subsequently found to operate freely during manual open and close operations.

The phenolic fragment was found to have originated from the cutoff switch (See Figure Two) used in the breaker anti-pump circuitry, which is physically located directly above the breaker trip latch mechanism. The cutoff switch operates mechanically each time the breaker is opened or closed.

Upon further inspection, it was determined that a screw used in the assembly of the cutoff switch had become loose. This screw holds the switch to the mounting block and if loose will allow the two halves of the switch to separate when the breaker is operated. This most likely led to switch misalignment and breakage of the phenolic block.

The potential root causes of the loose screw and phenolic material breakage are either a manufacturing defect or inadvertent damage during maintenance. A search of industry maintenance records did not indicate any similar type failures and has been determined by FPL Engineering and GE to be a first time event.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (NHSS 7734), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
St. Lucie Unit 2	05000389	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 6
		94	--006--	0	

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

ANALYSIS OF THE EVENT:

This event is not reportable under 10CFR50.73; however, it is being submitted voluntarily for industry informational purposes. The St. Lucie Unit 2 Technical Specifications Section 3/4.3.1 "Reactor Protective Instrumentation" requires a minimum of four operable channels for continued operation in modes 1 and 2. Each Reactor Trip Breaker channel is comprised of two TCBs and a common actuation trip logic path, for a total of four channels. (See Figure One) The Action statement associated with this specification is that with the number of channels OPERABLE one less than required by the Minimum Channels OPERABLE requirement, STARTUP and or POWER OPERATION may continue provided the TCBs of the inoperable channel are placed in the tripped condition within 1 hour, otherwise, be in at least HOT STANDBY within 6 hours. The BASES for this specification is to ensure that for the RPS instrumentation and bypasses: 1) the associated reactor trip will be initiated when a parameter monitored by each channel or combination reaches its setpoint, 2) the specified coincidence logic is maintained, 3) sufficient redundancy is maintained to permit a channel to be out of service for testing or maintenance, and 4) sufficient system functional capability is available from diverse parameters.

To comply with the intent of the TCB action statement operators opened TCB-6, the breaker in series with TCB-5, and TCB-1. ensured that these RPS trip paths were placed in the fail safe condition, and that the safety function for these trip paths carried out. Therefore the following was guaranteed: 1) the initiation of a reactor trip on a valid condition, 2) RPS actuation logic of 1/2 channels, 3) equipment redundancy while TCB-5 was repaired, 4) all diverse RPS measurement channels were available and 5) immediate access for root cause analysis and repair of TCB-5. As an additional measure, TCB-2 was opened.

The Updated Final Safety Analysis Report (UFSAR), Section 7.2 and Failure Analysis Table 7.2-5, analyzes the condition described in this report, a Trip Circuit Breaker failing closed. Specifically, the RPS is designed so that any single failure within the system does not prevent proper protective action at the system level. The wiring in the system is grouped so that no single fault or failure, including either an open or shorted circuit, negates the protective system operation. The UFSAR states that if one of two series redundant TCBs in one of two parallel redundant paths to supply power to the CEAs will not open on a trip signal due to mechanical binding, the inherent compensating provision is that the series redundant breaker can interrupt power on the affected trip path, and the RPS trip logic is unaffected. The method of detection for this fault is the monthly RPS Logic Matrix test.

Therefore, the health and safety of the public were not affected during this event.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MMRB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
St. Lucie Unit 2	05000389	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	4 OF 6
		94	--006--	0	

TEXT (if more space is required, use additional copies of NRC Form 366A) (17)

CORRECTIVE ACTIONS:

- 1) Electrical Maintenance has replaced TCB-5.
- 2) Electrical Maintenance, FPL Engineering and a GE representative inspected the remaining Unit 2 TCBs and the MG Set Output Breakers with satisfactory results.
- 3) Electrical Maintenance will inspect Unit 1 TCBs during the next scheduled quarterly maintenance and the MG Set Output Breakers during the next scheduled periodic maintenance.
- 4) Electrical Maintenance has incorporated the inspection of the cutoff switch phenolic block and screw into Unit 1 & 2 periodic maintenance procedures.
- 5) FPL Engineering will evaluate the use of a locking material on the cutoff switch phenolic block screw to prevent its backing out.

Operations performed OP 2-1400059, Reactor Protective System Periodic Logic Matrix Test, with satisfactory results and declared TCB-5 operable at 0315 on 7/15/94.

- 7) Lessons learned from this event have been shared on the INPO Nuclear Network.

ADDITIONAL INFORMATION:Failed Components:

TCB-5, Model: General Electric Type AK 2-25

Previous Similar Events:

There are no previous similar LERs at PSL involving TCBs that did not open when required.

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St. Lucie Unit 2	05000389	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	5 OF 6
		94	--006--	0	

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

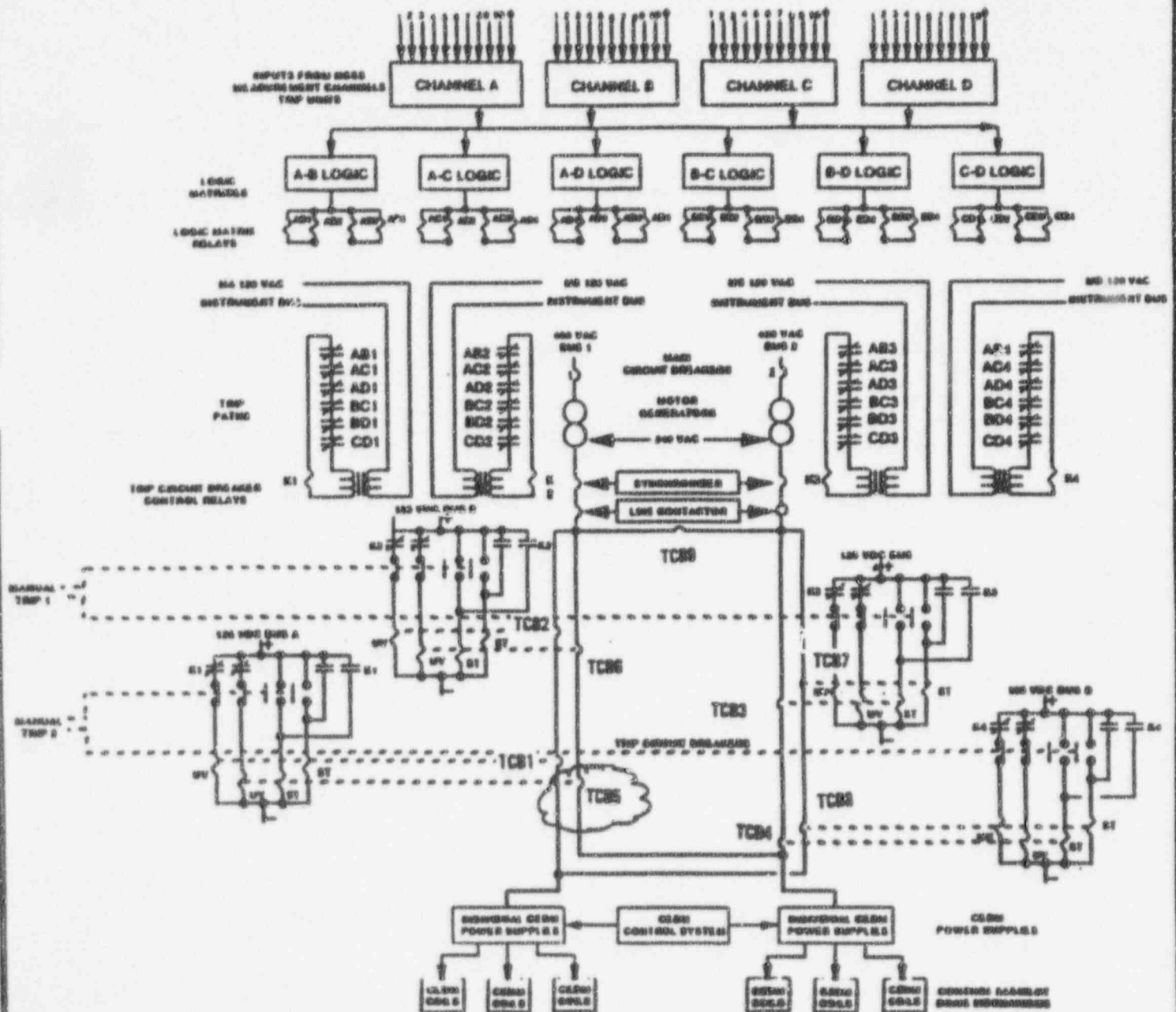


FIGURE ONE - RPS FUNCTIONAL DIAGRAM (TRIPPED CONDITION)

LICENSEE EVENT REPORT (LER)
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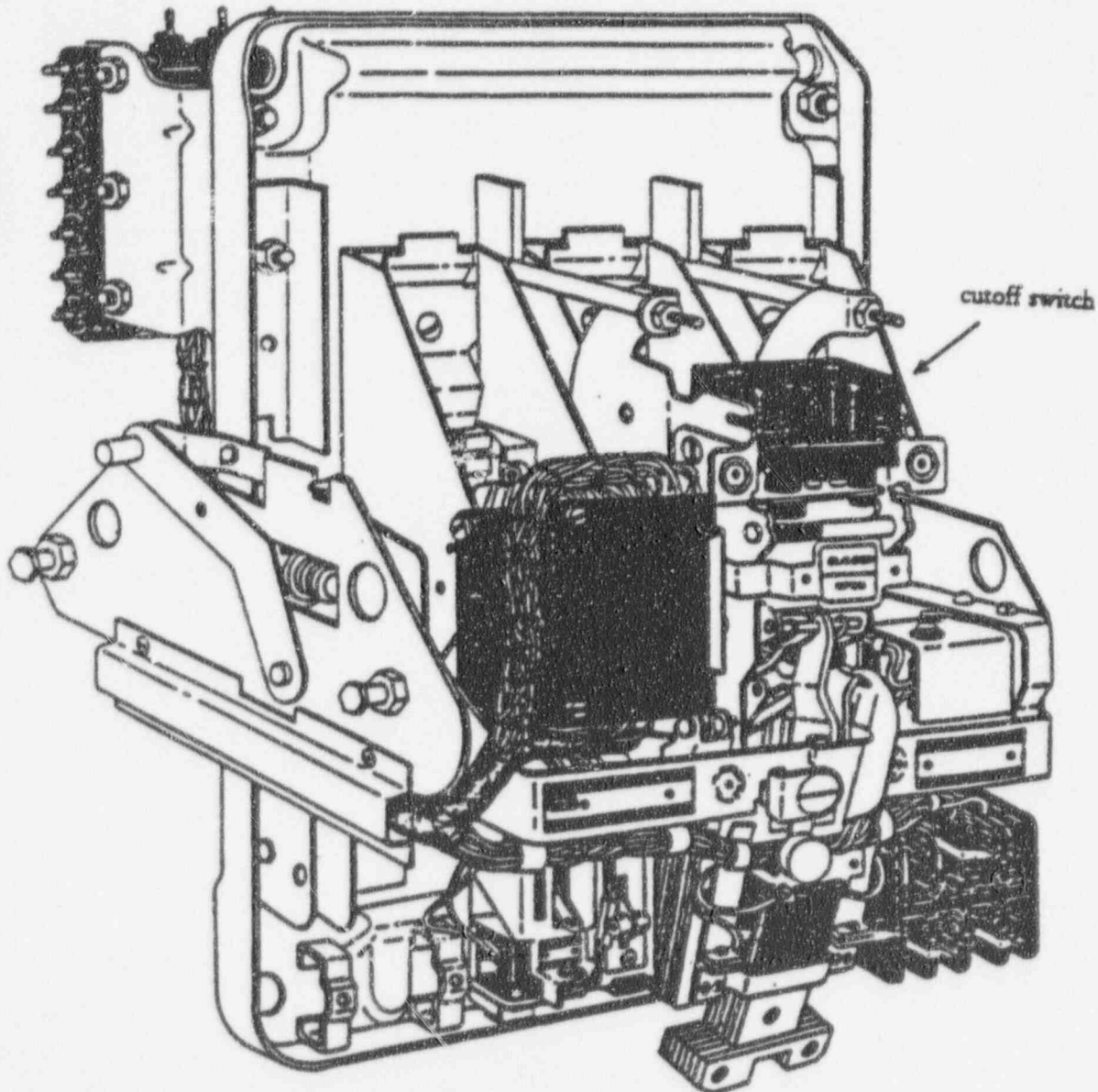


FIGURE TWO
GE AK-2-25 CIRCUIT BREAKER
(FRONT COVER REMOVED)

NICE STAFF NOTES

FACILITY: St Lucie

☐ RNF PANEL

DATE: 9/12/94

☐ RNF COMP

CASE NO: _____

☐ CALCTS

IR NO: _____

☒ Other

DUE TO OR: _____

RA Briefing

EA NO: _____

ATTENDEES

LAST DATE OF INSPECTION: _____

INSPECTOR: Miller / Purvath

9/30/94

START: _____

TERM: _____

RESPONSIBLE DIVISION: _____

RESPONSIBLE SECTION: _____

DLP

Lord3

SUBJECT: DG operability

Wakem

Schin

Lord3

Reyn

Ephraim

Kay

Wyle

NOTES:

Plan engineering inspection on DG testing
DLP to confirm outage schedule.

Decision to leave unresolved, no additional
inspection, review outage testing, then
respond, determine their interpretation of
the OOS of CCW prop. Also look at licensee's
engineering evaluation of original violation.

OR NOTIFIED: _____

SL: _____

SUP: _____

CP: _____

NC SCHEDULED: _____

LOCATION: _____

M. Lucio

EEF/48

1. IDENTIFICATION: (50% + 1) { }

2. CORRECTIVE ACTION: (50% + 1) { }

3. LICENSEE PERFORMANCE: (100% + 1) { }

4. PRIOR OPPORTUNITY TO IDENTIFY: (100% + 1) { }

5. MULTIPLE OCCURRENCES: (100% + 1) { }

6. DURATION: (100% + 1) { }

BASE CP: _____ SEVERITY LEVEL: _____ PROPOSED CP: \$ _____



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W., SUITE 2900
ATLANTA, GEORGIA 30323-0199

October 11, 1995

MEMORANDUM TO: James Lieberman, Director
Office of Enforcement

FROM: Stewart D. Ebner, Regional Administrator /s/ S.D. Ebner

SUBJECT: EA 95-180, FLORIDA POWER AND LIGHT COMPANY, ST. LUCIE UNIT 1,
PROPOSED SEVERITY LEVEL III PROBLEM, USE OF DISCRETION TO
IMPOSE \$50,000 CIVIL PENALTY

Attached for your review and concurrence is the proposed enforcement action for the subject case. An Enforcement Action Worksheet is provided as Attachment 1. Attachment 2 consists of a draft letter to the licensee and a Notice of Violation. Attachment 3 contains the reference material appropriate to this case.

Three violations were identified for (1) the failure to meet Technical Specification requirements to maintain the Pressure Operated Relief Valves (PORVs) operable when at low pressure conditions; (2) the failure to adequately identify and perform post-maintenance testing of the PORVs; and (3) the failure to perform adequate inservice testing of the PORVs. We propose that the issue be classified as a Severity Level III problem consistent with Supplement I.C.2.a of the Enforcement Policy: A system designed to prevent or mitigate a serious safety event not being able to perform its intended function under certain conditions. Application of the civil penalty assessment process would have resulted in a fully mitigated civil penalty but due to the poor licensee performance in this case, discretion was applied to impose the base civil penalty.

This case is not exempt from the Office of Enforcement's timeiiness requirements.

Attachments: 1. Enforcement Action Worksheet
2. Draft Letter/NOV to Licensee
3. Reference Package

cc w/atts: J. Goldberg, OGC
R. Zimmerman, NRR

CONTACT: B. Uryc, RII
404-331-5505

*SEE PREVIOUS PAGE FOR CONCURRENCE

SEND TO PUBLIC DOCUMENT ROOM?						
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OFFICE	RII:DRP	RII:DRP	RII:DRS	RII:ORA	RII:EICS	RII:ORA
SIGNATURE					<i>[Signature]</i>	
NAME	*KLandis	*EMerschoff	*AGibeon	*CEvans	BUryc	LReyes
DATE	10 / / 95	10 / / 95	10 / / 95	10 / / 95	10 / / 95	10 / / 95
COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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cc w/atts: J. Goldberg, OGC
R. Zimmerman, NRR

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404-331-5505

SEND TO PUBLIC DOCUMENT ROOM?		YES		NO		
OFFICE	RII:DRP	RII:DRP	RII:DRS	RII:ORA	RII:EICS	RII:ORA
SIGNATURE	<i>KL</i>	<i>H for</i>	<i>AG</i>	<i>NLD w/changes</i>		
NAME	KLandis	EMerachoff	AGibson	CEvans	BUryc	LReyes
DATE	10/11/95	10/11/95	10/11/95	10/11/95	10/11/95	10/11/95
COPY?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

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