

FLORIDA POWER & LIGHT COMPANY  
ST. LUCIE PLANT UNIT 2  
EMERGENCY PROCEDURE NUMBER 2-0030132  
REVISION 0

ANTICIPATED TRANSIENT WITHOUT SCRAM  
(ATWS)  
November 24, 1981

REV                      FRG  
APPROVAL                      PLT MGR

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1.0 SCOPE

This procedure provides instructions to be used in the event of an ATWS. The transients which produce most limiting ATWS consequences are covered by this procedure.

2.0 SYMPTOMS

The following are symptoms, related to the three transients, which would cause a reactor trip. Any of these symptoms, not accompanied by insertion of all CEA's, are an indication of ATWS:

TRIP SIGNAL GENERATED BY:					
<u>SYMPTOM</u>	<u>LOF</u>	<u>LOOP</u>	<u>STUCK OPEN PORV</u>	<u>INDICATION/ALARM</u>	
2.1 High Przr Pressure	Yes	Yes	No	2.1 <u>Indications</u> PI-1102A, PI-1102B, PI-1102C, PI-1102D FR-1100 PIC-1100X, PIC-1100Y RPS - Channel 5	
				2.1 <u>Alarms</u> L-20, L-28	
2.2 TM/LP	No	No	Yes	2.2 <u>Indications</u> PIA-1102A, PIA-1102B, PIA-1102C, PIA-1102D RPS - Channel 4	
				2.2 <u>Alarms</u> L-36, L-41	

2.0 SYMPTOMS: (Cont.)

TRIP SIGNAL GENERATED BY:

<u>SYMPTOM</u>	<u>LOF</u>	<u>LOOP</u>	<u>STUCK OPEN PORV</u>	<u>INDICATION/ALARM</u>
2.3 Low RCS Flow	Yes	Yes	No	2.3 <u>Indications</u> PDI-1101A, PDI-1101B, PDI-1101C, PDI-1101D RPS - Channel 6
				2.3 <u>Alarms</u> L-10, L-18
2.4 Low S/G Level	Yes	No	No	2.4 <u>Indications</u> LIC-9013A, LIC-9013B, LIC-9013C, LIC-9013D LIC-9023A, LIC-9023B, LIC-9023C, LIC-9023D LR-9011, LR-9021 RPS - Channel 7
				2.4 <u>Alarms</u> L-3, L-11

3.0 AUTOMATIC ACTIONS:

Some of the following Automatic Actions will occur during the various transients with the absence of a reactor trip:

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**NOTE:** Any Automatic Actions that should occur and do not, must be manually initiated.

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- |                                   |   |
|-----------------------------------|---|
| 3.1 Turbine Trip                  | 3.1 If reactor trip <u>SHOULD HAVE</u> occurred |
| 3.2 AFW Auto Start                | 3.2 5% S/G level, narrow range                  |
| 3.3 PORV Actuation                | 3.3 RCS pressure @ 2400 PSIA                    |
| 3.4 Main Steam Safety Valves Open | 3.4 S/G pressure greater than 975 PSIG          |
| 3.5 SBCS Actuation                | 3.5 Turbine Trip or High S/G pressure           |
| 3.6 Generator OCB's Open          |   |



3.0 AUTOMATIC ACTIONS: (Cont.)

3.7 SIAS and CIAS

3.7 RCS pressure 1600 PSIA  
Containment pressure 5 PSIG

3.8 CSAS

3.8 Containment pressure 10 PSIG

4.0 IMMEDIATE OPERATOR ACTIONS

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NOTE: Following steps do not necessarily need to be performed in order.

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4.1 Trip Turbine

4.1 RTGB 201

4.2 Ensure AFW Flow

4.2 RTGB 202

4.3 Trip Reactor

4.3 RTGB 201 or 204

AND IF CEA'S DON'T DROP

4.4 Open RTB's

4.4 RPS Panel

AND IF CEA'S DON'T DROP

4.5 Manually Insert CEA's

4.5 RTGB 204

AND IF CEA'S DON'T MOVE

4.6 Emergency Borate by opening  
MV 2514 and starting BA pumps  
2A and 2B

4.6 RTGB 205

4.7 Stop M/G sets either at M/G  
set or at breaker 2-40212 and  
2-40511

4.7 Locally in RAB

4.8 Return to 2-0030130, Reactor Trip/  
Turbine Trip, Immediate Operator  
Actions to determine type of transient  
and further action required.



5.0 SUBSEQUENT ACTIONS:

None

6.0 DISCUSSION:

This procedure starts and ends during a transient. For this reason, there is no subsequent action. The last immediate action is to refer to the Reactor Trip/Turbine Trip procedure and from there determine the course of action to take.

7.0 REFERENCES:

7.1 Memorandum from Frank Schroeder to Robert L. Tedesco, dated June 23, 1980

7.2 CE Emergency Procedure Guidelines, CEN-152

7.3 St. Lucie #1 Off-Normal Operating Procedures

8.0 RECORDS REQUIRED:

8.1 Normal Log Entries

9.0 APPROVAL:

Reviewed by the Facility Review Group \_\_\_\_\_ 19\_\_

Approved by \_\_\_\_\_ Plant Manager \_\_\_\_\_ 19\_\_

Rev. \_\_\_\_ reviewed by Facility Review Group \_\_\_\_\_ 19\_\_

Approved by \_\_\_\_\_ Plant Manager \_\_\_\_\_ 19\_\_

"L A S T P A G E"

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