

Submitted: _____
(Section Head)
Approved: _____
(Plant Manager)

SP Number 29.023.01
Revision F
Effective Date _____

LEVEL CONTROL
EMERGENCY PROCEDURE



1.0 PURPOSE

The purpose of this procedure is to restore and stabilize RPV water levels.

2.0 ENTRY CONDITIONS

The entry conditions for this procedure are any of the following:

- 2.1 RPV water level less than 12.5"
- 2.2 Drywell pressure greater than 1.69 psig
- 2.3 An isolation condition exists which requires OR initiates reactor scram.

3.0 OPERATOR ACTIONS

- 3.1 Confirm initiation of the following. Initiate any of the actions which should have initiated but did not.

_____ 3.1.1 VERIFY reactor scram

AND

PERFORM SP 29.010.01,
(Emergency Shutdown),
concurrently with this
procedure.

_____ 3.1.2 VERIFY group isolations
consistent with entry
conditions.

3.1.2 Ref. technical
specification 3/4.3.2

_____ 3.1.3 VERIFY automatic
initiation of ECCS
systems consistent with
entry conditions.

3.1.3 Ref. technical
specification 3/4.3.3

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3.1.4 VERIFY diesel generators start consistent with entry conditions.

3.1.4 Diesel generators start at 1.69 psig
OR -132.5"

3.2 Restore and maintain RPV water level between 17.5" and 54.5" with one or more of the following systems:

3.2 NOTE
The choice of using the following systems vary with plant conditions. It is preferred that the minimum number of systems be used to accomplish water level restoration.

3.2.1 Condensate/Feedwater

3.2.1 Press range 1115 to 0 psig (Ref. SP 23.109.01)

3.2.2 CRD

3.2.2 Press range 1115 to 0 psig (Ref. SP 23.106.01)

3.2.3 RCIC

3.2.3 Press range 1115 to 57 psig (Ref. SP 23.119.01)

3.2.4 HPCI

3.2.4 Press Range 1115 to 110 psig (Ref. SP 23.202.01)

3.2.5 C.S.

3.2.5 Press Range 333 to 0 psig (Ref. SP 23.203.01)

3.2.6 LPCI

3.2.6 Press Range 238 to 0 psig (Ref. SP 23.204.01)

3.3 IF RPV water level cannot be restored

3.3 NOTE
TAF = +6" as read on fuel zone instrumentation LI-007.

AND

maintained above +12.5"

THEN maintain RPV water level above top of active fuel

3.4 IF RPV water level cannot be maintained above TAF

OR

cannot be determined,

THEN proceed to
SP 29.023.04
(Level Restoration).

3.5 Notify the Watch Engineer to classify the event and initiate the Emergency Plan as required.

3.6 IF RPV water level can be restored

AND

maintained above 12.5"

AND

it is determined that an emergency does not exist,

THEN proceed to the appropriate station procedure as determined by Shift Supervision.

3.7 IF SRV's are cycling,

THEN open one SRV and reduce RPV pressure to between 800 and 960 psig.

3.8 WHEN the RPV water level has stabilized above TAF,

THEN proceed to SP 29.023.02 (Cooldown).

4.0 REFERENCES

- 4.1 SP 29.010.01 Emergency Shutdown
- 4.2 SP 29.023.02 Cooldown
- 4.3 SP 29.023.04 Level Restoration
- 4.4 SP 23.103.01 Condensate

3.4 NOTE
TAF = +6" as read on fuel zone instrumentation LI-007.

3.5 Ref. SP 69.010.01

- 4.5 SP 23.109.01 Feedwater
- 4.6 SP 23.119.01 Reactor Core Isolation Cooling System
- 4.7 SP 23.202.01 High Pressure Coolant Injection
- 4.8 SP 23.203.01 Core Spray System
- 4.9 SP 23.204.01 Low Pressure Coolant Injection
- 4.10 SP 23.106.01 Control Rod Drive
- 4.11 Technical Specifications, Section 3/4.3.2
- 4.12 Technical Specifications, Section 3/4.3.3
- 4.13 SP 69.010.01 Conditions for Emergency Action Levels