

ATTACHMENT 2

NRC DOCKET 50-366
OPERATING LICENSE NPF-5
EDWIN I. HATCH NUCLEAR PLANT UNIT 2
PROPOSED CHANGES TO TECHNICAL SPECIFICATIONS

The proposed change to Technical Specifications (Appendix A to Operating License NPF-5) would be incorporated as follows:

Remove Page

3/4 3-28

B 3/4 3-6

Insert Page

3/4 3-28

B 3/4 3-6

TABLE 3.3.3-2

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SETPOINTS

<u>TRIP FUNCTION</u>	<u>TRIP SETPOINT</u>	<u>ALLOWABLE VALUE</u>
1. <u>CORE SPRAY SYSTEM</u>		
a. Reactor Vessel Water Level - Low Low Low	≥ -146.5 inches*	≥ -146.5 inches*
b. Drywell Pressure - High	≤ 2 psig	≤ 2 psig
c. Reactor Steam Dome Pressure - Low	≤ 500 psig	≤ 500 psig
d. Logic Power Monitor	NA	NA
2. <u>LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM</u>		
a. Drywell Pressure - High	≤ 2 psig	≤ 2 psig
b. Reactor Vessel Water Level - Low Low Low	≥ -146.5 inches*	≥ -146.5 inches*
c. Reactor Vessel Shroud Level - High	≥ -203.5 inches	≥ -203.5 inches
d. Reactor Steam Dome Pressure-Low	≤ 500 psig	≤ 500 psig
e. Reactor Steam Dome Pressure-Low	≤ 335 psig	≤ 335 psig
f. RHR Pump Start - Time Delay Relay		
1) Pumps A, B and D	10 ± 1 seconds	10 ± 1 seconds
2) Pump C	0.5 ± 0.5 seconds	0.5 ± 0.5 seconds
g. Logic Power Monitor	NA	NA

*See Bases Figure B 3/4 3-1.

ATTACHMENT 3

NRC DOCKET 50-321
OPERATING LICENSE DPR-57
EDWIN I. HATCH NUCLEAR PLANT UNIT 1
PROPOSED CHANGES TO TECHNICAL SPECIFICATIONS

The proposed change to Technical Specifications (Appendix A to Operating License DPR-57) would be incorporated as follows:

Remove Page

3.2-11
3.2-22
3.2-61

Insert Page

3.2-11
3.2-22
3.2-61

TABLE 3.2-5

INSTRUMENTATION WHICH INITIATES OR CONTROL THE LPCI MODE of RHR

Ref. No. (a)	Instrument	Trip Condition Nomenclature	Required Operable Channels Per Trip System (b)	Trip Setting	Remarks
1	Reactor Water Level (Yarway)				
		Low Low Low (LL3)	2	≥ -146.5 inches	Initiates LPCI mode of RHR
2	Drywell	High	2	≤ 2 psig	Initiates LPCI mode of RHR
3	Reactor Pressure	High (Shutdown Cooling Mode)	1	≤ 135 psig	With primary containment isolation signal, closes RHR (LPCI) inboard motor operated injection valves
		Low	2	≤ 335 psig	Permissive to close Recirculation Discharge Valve and Bypass Valve
		Low	2	≤ 500 psig	Permissive to open LPCI injection valves
4	Reactor Water Level (Shroud Level Indicator)		1	> -203.5 inches	Acts as permissive to divert some LPCI flow to containment spray
5	LPCI Cross Connect Valve Open Annunciator	N/A	1	Valve not closed	Initiates annunciator when valve is not closed

TABLE 3.2-11

Ref. No. (a)	Instrument (b)	Required Operable Instrument Channels	Type and Range	Action	Remarks
1	Reactor Water Level (GE/MAC	1	Recorder	(c)	(d)
		2	Indicator 0 to 60"	(c)	(d)
2	Shroud Water Level	1	Recorder	(c)	(d)
		1	Indicator -317" to -17"	(c)	(d)
3	Reactor Pressure	1	Recorder	(c)	(d)
		2	Indicator 0 to 1200 psig	(c)	(d)
4	Drywell Pressure	2	Recorder -5 to +80 psig	(c)	(d)
5	Drywell Temperature	2	Recorder 0 to 500°F	(c)	(d)
6	Suppression Chamber Air Temperature	2	Recorder 0 to 500°F	(c)	(d)
7	Suppression Chamber Water Temperature	2	Recorder 0 to 250°F	(c)	(d)
8	Suppression Chamber Water Level	2	Indicator 0 to 300"	(c)	(d)
		2	Recorder 0 to 30"	(c)(e)	(d)
9	Suppression Chamber Pressure	2	Recorder -5 to +80 psig	(c)	(d)
10	Rod Position Information System (RPIS)	1	28 Volt Indicating Lights	(c)	(d)
11	Hydrogen and Oxygen Analyzer	1	Recorder 0 to 52	(c)	(d)
12	Post LOCA Radiation Monitoring System	1	Recorder	(c)	(d)
			Indicator 1 to 10 ⁶ R/hr	(c)	(d)
13	Drywell/Suppression Chamber Differential Pressure	2	Recorder -0.5 to + 2.5 psid	(c)(e)	(d)
14	a) Safety/Relief Valve Position Primary Indicator	1	Pressure Switch 4-100 psig	(f)	
	b) Safety/Relief Valve Position Secondary Indicator	1	Temperature element 0-600°F	(f)	

3.2.E.3. Reactor Pressure Low (Continued)

jection valves. The valves do not open, however, until reactor pressure falls below the discharge head of LPCI.

4. Reactor Water Level (Shroud Level Indicator)

A reactor water level ≥ 203.5 inches below instrument zero is indicative that LPCI has made progress in reflooding the core. A simultaneous high drywell pressure trip indicates the need for containment cooling. The ≥ 203.5 inch setpoint acts as a permissive for manual diversion for some of the LPCI flow to containment spray.

7. LPCI Cross Valve Open Annunciator

With the modified LPCI arrangement, the cross connect valve status was changed from normally open to normally closed. Inadvertent opening of this valve could negate the LPCI system injection when needed. The annunciator will alarm when the LPCI cross connect valve is not fully closed.

6. RHR (LPCI) Pump Discharge Pressure Interlocks

A pressure ≥ 100 psig on the RHR pump discharge indicates that the pump has started successfully. The setpoint provides a permissive signal to ADS which allows ADS initiation if other requirements are met.

7. RHR (LPCI) Pump Flow (Δp Switch) Low

A flow switch is provided downstream of each RHR pump to indicate the condition of each pump. To protect the pumps from overheating at low flow rates a minimum flow bypass line, which routes water from the pump discharge to the suppression chamber, is provided for each pair of pumps. A single motor-operated valve controls the condition of each bypass line. The minimum flow bypass valve automatically opens upon sensing low flow in the discharge lines from both pumps of the associated pump pair. The valve automatically closes whenever the flow from either of the associated main system pumps is above the low flow setting.

8. RHR (LPCI) Pump Start Timers

If normal AC power is available, four pumps automatically start without delay. If normal AC power is not available, one pump starts without delay as soon as power becomes available from the standby sources. The other three pumps start after a 10-second delay. The timer provides correct sequencing of the loads to the diesel generator.