

ATTACHMENT B TO SEC9 LETTER 92-101

Revised Technical Specification Pages

PNPS
TABLE 3.2-B (Cont'd)
INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

<u>Minimum # of Operable Instrument Channels Per Trip System (1)</u>	<u>Trip Function</u>	<u>Trip Level Setting</u>	<u>Remarks</u>
2	High Drywell Pressure	$\leq 2.5 \text{ psi}$	<ol style="list-style-type: none"> 1. Initiates Core Spray; LPCI; HPCI. 2. In conjunction with Low-Low Reactor Water Level, 120 second time delay and LPCI or Core Spray pump running, initiates Auto Blowdown (ADS). 3. Initiates starting of Diesel Generators 4. In conjunction with Reactor Low Pressure initiates closure of HPCI vacuum breaker containment isolation valves.
1	Reactor Low Pressure	$400 \text{ psig} \pm 25$	Permissive for Opening Core Spray and LPCI Admission valves.
1	Reactor Low Pressure	$\leq 110 \text{ psig}$	In conjunction with PCIS signal permits closure of RHR (LPCI) injection valves.
1	Reactor Low Pressure	$400 \text{ psig} \pm 25$	In conjunction with Low-Low Reactor Water Level initiates Core Spray and LPCI.
2	Reactor Low Pressure	$900 \text{ psig} \pm 25$	Prevents actuation of LPCI break detection circuit.
2	Reactor Low Pressure	$100 > P > 50 \text{ psig}$	Isolates HPCI and in conjunction with High Drywell Pressure initiates closure of HPCI vacuum breaker containment isolation valves.

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TABLE 3.2-B (Cont'd)

INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

<u>Minimum # of Operable Instrument Channels Per Trip System (1)</u>	<u>Trip Function</u>	<u>Trip Level Setting</u>	<u>Remarks</u>
2	Condensate Storage Tank Low Level	≥18" above tank zero	Provides interlock to HPCI pump suction valves
2	Suppression Chamber High Level	≤1'11" below torus zero	
1	RCIC Turbine Steam Line High Flow	≤300% of rated steam flow	(2)
2	RCIC Turbine Compartment Wall	≤170 ⁰ F	(2)
2	Torus Cavity Exhaust Duct	≤150 ⁰ F	(2)
2	RCIC Valve Station Area Wall	≤200 ⁰ F	(2)
4 (5)	RCIC Steam Line Lo-Press	100 > P > 50 psig	(2)
1	HPCI Turbine Steam Line High Flow	≤300% of rated flow	(3)
2	HPCI Turbine Compartment Exhaust Ducts	≤170 ⁰ F	(3)
2	Torus Cavity Exhaust Duct	190 - 200 ⁰ F	(3)
2	HPCI/RHR Valve Station Area Exhaust Duct	≤170 ⁰ F	(3)

NOTES FOR TABLE 3.2.B

1. Whenever any CSCS subsystem is required by Section 3.5 to be operable, there shall be two (Note 5) operable trip systems. If the first column cannot be met for one of the trip systems, that system shall be repaired or the reactor shall be placed in the Cold Shutdown Condition within 24 hours after this trip system is made or found to be inoperable.
2. Close isolation valves in RCIC subsystem.
3. Close isolation valves in HPCI subsystem.
4. Instrument set point corresponds to 77.26 inches of active fuel.
5. RCIC has only one trip system for those sensors.

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TABLE 4.2.B
MINIMUM TEST AND CALIBRATION FREQUENCY FOR CSCS

<u>Instrument Channel</u>	<u>Instrument Functional Test</u>	<u>Calibration Frequency</u>	<u>Instrument Check</u>
1) Reactor Water Level	(1) (7)	(7)	Once/day
2) Drywell Pressure	(1) (7)	(7)	Once/day
3) Reactor Pressure	(1) (7)	(7)	Once/day
4) Auto Sequencing Timers	NA	Once/operating cycle	None
5) ADS-LPCI or CS Pump Disch. Pressure Interlock	(1)	Once/3 months	None
6) Start-up Transf. (4160V)			
a. Loss of Voltage Relays	Monthly	Once/operating cycle	None
b. Degraded Voltage Relays	Monthly	Once/operating cycle	None
7) Trip System Bus Power Monitors	Once/Operating cycle	N/A	Once/day
8) Recirculation System d/p	(1)	Once/3 months	Once/day
9) Core Spray Sparger d/p	NA	Once/operating cycle	Once/day
10) Steam Line High Flow (HPCI&RCIC)	(1)	Once/3 months	None
11) Steam Line High Temp. (HPCI&RCIC)	(1)	Once/3 months	None
12) Safeguards Area High Temp.	(1)	Once/3 months	None
13) RCIC Steam Line Low Pressure	(1)	Once/3 months	None
14) HPCI Suction Tank Levels	(1)	Once/3 months	None
15) Emergency 4160V Buses A5 & A6 Loss of Voltage Relays	Monthly	Once/operating cycle	None

ATTACHMENT C TO BECo LETTER 92- 101

Annotated Current Technical Specification Pages

PNPS

TABLE 3.2-B (Cont'd)

INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

<u>Minimum # of Operable Instrument Channels Per Trip System (1)</u>	<u>Trip Function</u>	<u>Trip Level Setting</u>	<u>Remarks</u>
2	High Drywell Pressure	<2.5 psig	<ol style="list-style-type: none"> 1. Initiates Core Spray; LPCI; HPCI. 2. In conjunction with Low-Low Reactor Water Level, 120 second time delay and LPCI or Core Spray pump running, initiates Auto Blowdown (ADS) 3. Initiates starting of Diesel Generators. 4. In conjunction with Reactor Low Pressure initiates closure of HPCI vacuum breaker containment isolation valves.
1	Reactor Low Pressure	400 psig ± 25	Permissive for Opening Core Spray and LPCI Admission valves.
1	Reactor Low Pressure	<110 psig	In conjunction with PCIS signal permits closure of RHR (LPCI) injection valves.
1	Reactor Low Pressure	400 psig ± 25	In conjunction with Low-Low Reactor Water Level initiates Core Spray and LPCI.
2	Reactor Low Pressure	909 psig ± 25	Prevents actuation of LPCI break detection circuit.
2	Reactor Low Pressure	100 > P > 50 psig	In conjunction with High Drywell Pressure initiates closure of HPCI vacuum breaker containment isolation valves.

Isolates HPCI and in

~~Revision 116~~
Amendment No. *A2, A3*

Amendment No.

PYPS

TABLE 3.2.B (Cont'd)

INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

<u>Minimum # of Operable Instrument Channels Per Trip System (1)</u>	<u>Trip Function</u>	<u>Trip Level Setting</u>	<u>Remarks</u>
2	Condensate Storage Tank Low Level	$\geq 18"$ above tank zero	Provides interlock to HPCI pump suction valves.
2	Suppressor Chamber High Level	$\leq 1'11"$ below torus zero	
1	RCIC Turbine Steam Line High Flow	$\leq 300\%$ of rated steam flow (2)	
2	RCIC Turbine Compartment Wall	$\leq 170^\circ\text{F}$ (2)	
2	Torus Cavity Exhaust Duct	$\leq 150^\circ\text{F}$ (2)	
2	RCIC Valve Station Area Wall	$\leq 200^\circ\text{F}$ (2)	
4 (5)	RCIC Steam Line Lo-Press	$100 > P > 50$ psig (2)	
1	HPCI Turbine Steam Line High Flow	$\leq 300\%$ of rated flow (3)	
2	HPCI Turbine Compartment Exhaust Ducts	$\leq 170^\circ\text{F}$ (3)	
2	Torus Cavity Exhaust Duct	$190 - 200^\circ\text{F}$ (3)	
2	HPCI, PWR Valve Station Area Exhaust Duct	$\leq 170^\circ\text{F}$ (3)	
4 (5)	HPCI Steam Line Low Press.	$100 > P > 50$ psig	(3)

NOTES FOR TABLE 3.2.B

1. Whenever any CSCS subsystem is required by Section 3.5 to be operable, there shall be two (Note 5) operable trip systems. If the first column cannot be met for one of the trip systems, that system shall be repaired or the reactor shall be placed in the Cold Shutdown Condition within 24 hours after this trip system is made or found to be inoperable.
2. Close isolation valves in RCIC subsystem.
3. Close isolation valves in HPCI subsystem.
4. Instrument set point corresponds to 77.26 inches of active fuel.
5. RCIC ~~and HPCI~~ ^{has} ~~have~~ only one trip system for these sensors.

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TABLE 4.2.B
MINIMUM TEST AND CALIBRATION FREQUENCY FOR CSCS

	<u>Instrument Channel</u>	<u>Instrument Functional Test</u>	<u>Calibration Frequency</u>	<u>Instrument Check</u>
1)	Reactor Water Level	(1) (7)	(7)	Once/day
2)	Drywell Pressure	(1) (7)	(7)	Once/day
3)	Reactor Pressure	(1) (7)	(7)	Once/day
4)	Auto Sequencing Timers	NA	Once/operating cycle	None
5)	ADS - LPCI or CS Pump Disch. Pressure Interlock	(1)	Once/3 months	None
6)	Start-up Transf. (4160V)			
	a. Loss of Voltage Relays	Monthly	Once/operating cycle	None
	b. Degraded Voltage Relays	Monthly	Once/operating cycle	None
7)	Trip System Bus Power Monitors	Once/operating cycle	N/A	Once/day
8)	Recirculation System d/p	(1)	Once/3 months	Once/day
9)	Core Spray Sparger d/p	NA	Once/operating cycle	Once/day
10)	Steam Line High Flow (HPCI & RCIC)	(1)	Once/3 months	None
11)	Steam Line High Temp. (HPCI & RCIC)	(1)	Once/3 months	None
12)	Safeguards Area High Temp.	(1)	Once/3 months	None
13)	HPCI and RCIC Steam Line Low Pressure	(1)	Once/3 months	None
14)	HPCI Suction Tank Levels	(1)	Once/3 months	None
15)	Emergency 4160V Buses A5 & A6 Loss of Voltage Relays	Monthly	Once/Operating Cycle	None

Revision 103-

Amendment Nos. A1, A1, A1