

**3.4 PRIMARY COOLANT SYSTEM (PCS)**

- 3.4.1 PCS Pressure, Temperature, and Flow Departure from Nucleate Boiling (DNB) Limits
- 3.4.2 PCS Minimum Temperature for Criticality
- 3.4.3 PCS Pressure and Temperature (P/T) Limits
- 3.4.4 PCS Loops - MODES 1 and 2
- 3.4.5 PCS Loops - MODE 3
- 3.4.6 PCS Loops - MODE 4
- 3.4.7 PCS Loops - MODE 5, Loops Filled
- 3.4.8 PCS Loops - MODE 5, Loops Not Filled
- 3.4.9 Pressurizer
- 3.4.10 Pressurizer Safety Valves
- 3.4.11 Pressurizer Power Operated Relief Valves (PORVs)
- 3.4.12 Low Temperature Overpressure Protection (LTOP) System
- 3.4.13 PCS Operational LEAKAGE
- 3.4.14 PCS Pressure Isolation Valve (PIV) Leakage
- 3.4.15 PCS Leakage Detection Instrumentation
- 3.4.16 PCS Specific Activity
- 3.4.17 Steam Generator (SG) Tube Integrity

**3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)**

- 3.5.1 Safety Injection Tanks (SITs)
- 3.5.2 ECCS - Operating
- 3.5.3 ECCS - Shutdown
- 3.5.4 Safety Injection Refueling Water Tank (SIRWT)
- 3.5.5 Containment Sump Buffering Agent and Weight Requirements

**3.6 CONTAINMENT SYSTEMS**

- 3.6.1 Containment
- 3.6.2 Containment Air Locks
- 3.6.3 Containment Isolation Valves
- 3.6.4 Containment Pressure
- 3.6.5 Containment Air Temperature
- 3.6.6 Containment Cooling Systems

**3.7 PLANT SYSTEMS**

- 3.7.1 Main Steam Safety Valves (MSSVs)
- 3.7.2 Main Steam Isolation Valves (MSIVs)
- 3.7.3 Main Feedwater Regulating Valves (MFRVs) and MFRV Bypass Valves
- 3.7.4 Atmospheric Dump Valves (ADVs)
- 3.7.5 Auxiliary Feedwater (AFW) System
- 3.7.6 Condensate Storage and Supply
- 3.7.7 Component Cooling Water (CCW) System
- 3.7.8 Service Water System (SWS)
- 3.7.9 Ultimate Heat Sink (UHS)
- 3.7.10 Control Room Ventilation (CRV) Filtration
- 3.7.11 Control Room Ventilation (CRV) Cooling
- 3.7.12 Fuel Handling Area Ventilation System
- 3.7.13 Engineered Safeguards Room Ventilation (ESRV) Dampers
- 3.7.14 Spent Fuel Pool (SFP) Water Level
- 3.7.15 Spent Fuel Pool (SFP) Boron Concentration
- 3.7.16 Spent Fuel Assembly Storage
- 3.7.17 Secondary Specific Activity

3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)

3.5.5 Containment Sump Buffering Agent and Weight Requirements

LCO 3.5.5 Buffer baskets shall contain  $\geq 8,186$  lbs and  $\leq 10,553$  lbs of Sodium Tetraborate Decahydrate (STB)  $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ .

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. STB not within limits.	A.1 Restore STB to within limits.	72 hours
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3.	6 hours
	<u>AND</u> B.2 Be in MODE 4.	30 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.5.5.1 Verify the STB baskets contain $\geq 8,186$ lbs and $\leq 10,553$ lbs of equivalent weight sodium tetraborate decahydrate.	18 months
SR 3.5.5.2 Verify that a sample from the STB baskets provides adequate pH adjustment of borated water.	18 months