

16.0 TECHNICAL SPECIFICATIONS

The information in this section of the reference ABWR DCD, including all subsections, is incorporated by reference with departures and site-specific supplements identified in the individual subsections.

STPNOC has provided supplemental information specified in the generic Technical Specifications as “[]” where information is available. The remainder of the bracketed information will be provided following detailed design, analysis and/or equipment selection, installation, and testing.

Table 16.0-1 provides a list of the departures taken against the Technical Specifications. A list of the departures taken against the Technical Specification Bases is shown in Table 16.0-2.

Table 16.0-1 Technical Specification Departures

TS Section	Specification Title	Applicable Departure No.
1.0	Use and Application	STD DEP T1 3.4-1
2.0	Safety Limits	STD DEP 16.2-1
3.0	Limiting Condition For Operation (LCO) Applicability	STD DEP 16.3-1
3.3.1.1	Safety System Logic and Control (SSLC) Sensor Instrumentation	STD DEP T1 2.3-1 STD DEP T1 2.4-2 STD DEP T1 2.4-3 STD DEP 16.3-84
3.3.1.2	Reactor Protection System (RPS) and Main Steam Isolation Valve (MSIV) Actuation	STD DEP 16.3-81
3.3.1.4	ESF Actuation Instrumentation	STD DEP T1 2.4-2 STD DEP T1 2.4-3 STD DEP T1 3.4-1 STD DEP 8.3-1 STD DEP 16.3-50 STD DEP 16.3-86 STD DEP 16.3-94
3.3.3.1	Essential Communication Function (ECF)	STD DEP T1 3.4-1
3.3.4.2	Feedwater Pump and Main Turbine Trip Instrumentation	STD DEP 16.3-39
3.3.5.1	Control Rod Block Instrumentation	STD DEP 16.3-64 STD DEP 16.3-65

Table 16.0-1 Technical Specification Departures (Continued)

TS Section	Specification Title	Applicable Departure No.
3.3.6.1	Post Accident Monitoring (PAM) Instrumentation	STD DEP T1 2.3-1 STD DEP T1 2.14-1 STD DEP 7.5-1 STD DEP 16.3-78
3.3.6.2	Remote Shutdown System	STD DEP T1 2.14-1 STD DEP 16.3-59 STD DEP 16.3-60
3.3.7.1	Control Room Habitability Area (CRHA) Emergency Filtration (EF) System Instrumentation	STD DEP 16.3-61
3.4.1	Reactor Internal Pumps (RIPs) – Operating	STD DEP 16.3-5
3.4.3	RCS Operational Leakage	STD DEP 7.3-12
3.5.1	ECCS-Operating	STD DEP 8.3-1
3.6.1.2	Primary Containment Air Locks	STD DEP 16.3-69
3.6.1.3	Primary Containment Isolation Valves (PCIVs)	STD DEP 6.2-1 STD DEP 16.3-71 STD DEP 16.3-72
3.6.2.1	Suppression Pool Average Temperature	STD DEP 16.3-32
3.6.3.1	Primary Containment Hydrogen Recombiners	STD DEP T1 2.14-1
3.6.4.1	Secondary Containment	STD DEP 16.3-29
3.7.1	Reactor Building Cooling Water (RCW) System, Reactor Service Water (RSW) System and Ultimate Heat Sink (UHS) – Operating	STD DEP 16.3-16
3.7.2	Reactor Building Cooling Water (RCW) System, Reactor Service Water (RSW) System and Ultimate Heat Sink (UHS) – Shutdown	STD DEP 16.3-16 STD DEP 16.3-46
3.7.3	Reactor Building Cooling Water (RCW) System, Reactor Service Water (RSW) System and Ultimate Heat Sink (UHS) – Refueling	STD DEP 16.3-46
3.7.4	Control Room Habitability Area (CRHA) – Emergency Filtration (EF) System	STD DEP 16.3-47

Table 16.0-1 Technical Specification Departures (Continued)

TS Section	Specification Title	Applicable Departure No.
3.8.1	AC Sources – Operating	STD DEP 8.3-1 STD DEP 16.3-49
3.8.2	AC Sources – Refueling	STD DEP 16.3-41
3.8.3	Diesel Fuel Oil, Lube Oil, and Starting Air	STD DEP 16.3-51
3.8.4	DC Sources – Operating	STD DEP 8.3-1
3.8.6	Battery Cell Parameters	STD DEP 16.3-58
3.8.9	Distribution Systems – Operating	STD DEP 8.3-1
3.8.11	AC Sources-Shutdown (Low Water Level)	STD DEP 8.3-1
3.9.1	Refueling Equipment Interlocks	STD DEP 16.3-25
3.9.5	Control Rod Operability – Refueling	STD DEP 16.3-15
3.10.4	Control Rod Withdrawal – Cold Shutdown	STD DEP 16.3-19
3.10.5	Control Rod Drive (CRD) Removal – Refueling	STD DEP 16.3-21
3.10.7	Control Rod Testing – Operating	STD DEP 16.3-4
3.10.12	Multiple Control Rod Drive Subassembly Removal – Refueling	STD DEP 16.3-17
5.0	Administrative Controls	STD DEP T1 2.14-1 STD DEP T1 3.4-1 STD DEP 16.3-8 STD DEP 16.5-1 STD DEP 16.5-2 STD DEP 16.5-3 STD DEP 16.5-4

Table 16.0-2 Technical Specification Bases Departures

Bases Section	Specification Title	Applicable Departure No.
B 2.1.1	Reactor Core SLs	STD DEP 16.2-1
B 2.1.2	Reactor Coolant System (RCS) Pressure SL	STD DEP 16.2-1 STD DEP 16.2-2
B 3.0	Limiting Condition For Operation (LCOs and Surveillance Requirements)	STD DEP 16.3-1 STD DEP 16.3-2
B 3.1.1	Shutdown Margin (SDM)	STD DEP 16.3-4
B 3.1.2	Reactivity Anomalies	STD DEP 16.3-89
B 3.1.3	Control Rod Operability	STD DEP 16.3-68 STD DEP 16.3-90
B 3.1.7	Standby Liquid Control (SLC) System	STD DEP 16.3-3
B 3.3.1.1	Safety System Logic and Control (SSLC) Sensor Instrumentation	STD DEP T1 2.3-1 STD DEP T1 2.4-2 STD DEP T1 2.4-3 STD DEP T1 3.4-1 STD DEP 8.3-1 STD DEP 16.3-85 STD DEP 16.3-91 STD DEP 16.3-92 STD DEP 16.3-93
B 3.3.1.2	Reactor Protection System (RPS) and Main Steam Isolation Valve (MSIV) Actuation	STD DEP T1 3.4-1 STD DEP 16.3-57 STD DEP 16.3-81 STD DEP 16.3-82
B 3.3.1.3	Standby Liquid Control (SLC) and Feedwater Runback (FWRB) Actuation	STD DEP 16.3-83
B 3.3.1.4	Engineered Safety Features (ESF) Actuation Instrumentation	STD DEP T1 2.4-2 STD DEP T1 2.4-3 STD DEP T1 3.4-1 STD DEP 7.3-17 STD DEP 8.3-1 STD DEP 16.3-87
B 3.3.3.1	Essential Communication Function	STD DEP T1 3.4-1

Table 16.0-2 Technical Specification Bases Departures (Continued)

Bases Section	Specification Title	Applicable Departure No.
B 3.3.4.1	Anticipated Transient Without Scram (ATWS) and End-of-Cycle Recirculation Pump Trip (EOC-RPT) Instrumentation	STD DEP T1 3.4-1 STD DEP 16.3-55
B 3.3.4.2	Feedwater Pump and Main Turbine Trip Instrumentation	STP DEP 10.4-5 STD DEP 16.3-39
B 3.3.5.1	Control Rod Block Instrumentation	STD DEP T1 3.4-1 STD DEP 16.3-66 STD DEP 16.3-67
B 3.3.6.1	Post Accident Monitoring (PAM) Instrumentation	STD DEP T1 2.3-1 STD DEP T1 2.14-1 STD DEP T1 3.4-1 STD DEP 7.5-1 STD DEP 16.3-77 STD DEP 16.3-78
B 3.3.6.2	Remote Shutdown System	STD DEP T1 2.14-1 STD DEP T1 3.4-1 STD DEP 8.3-1 STD DEP 16.3-59 STD DEP 16.3-60
B 3.3.8.1	Electric Power Monitoring	STD DEP 16.3-62
B 3.3.8.2	Reactor Coolant Temperature Monitoring	STD DEP 16.3-63
B 3.4.1	Reactor Internal Pumps (RIPs) – Operating	STD DEP 16.3-5 STD DEP 16.3-6
B 3.4.2	Safety/Relief Valves (S/RVs)	STD DEP 16.3-7
B 3.4.3	RCS Operational Leakage	STD DEP 7.3-12 STD DEP 16.3-11
B 3.4.7	Residual Heat Removal (RHR) Shutdown Cooling System-Hot Shutdown	STD DEP 16.3-9
B 3.4.8	Residual Heat Removal (RHR) Shutdown Cooling System-Cold Shutdown	STD DEP 16.3-9
B 3.4.9	RCS Pressure and Temperature (P/T) Limits	STD DEP 16.3-8
B 3.5.1	ECCS-Operating	STD DEP 16.3-10

Table 16.0-2 Technical Specification Bases Departures (Continued)

Bases Section	Specification Title	Applicable Departure No.
B 3.6.1.1	Primary Containment	STD DEP 6.2-2 STD DEP 16.3-43 STD DEP 16.3-44 STD DEP 16.3-45
B 3.6.1.2	Primary Containment Air Locks	STD DEP 6.2-2 STD DEP 16.3-70
B 3.6.1.3	Primary Containment Isolation Valves	STD DEP 16.3-71 STD DEP 16.3-72 STD DEP 16.3-73 STD DEP 16.3-74
B 3.6.1.4	Drywell Pressure	STD DEP 6.2-2
B 3.6.1.6	Wetwell-to-Drywell Vacuum Breakers	STD DEP 16.3-34
B 3.6.2.1	Suppression Pool Average Temperature	STD DEP 16.3-32 STD DEP 16.3-33
B 3.6.2.3	Residual Heat Removal (RHR) Suppression Pool Cooling	STD DEP 16.3-36 STD DEP 16.3-37
B 3.6.3.1	Primary Containment Hydrogen Recombiners	STD DEP T1 2.14-1
B 3.6.3.2	Primary Containment Oxygen Concentration	STD DEP T1 2.14-1
B 3.6.4.1	Secondary Containment	STD DEP 16.3-29 STD DEP 16.3-30
B 3.6.4.3	Standby Gas Treatment (SGT) System	STD DEP 16.3-31
B 3.7.1	Reactor Building Cooling Water (RCW) System, Reactor Service Water (RSW) System and Ultimate Heat Sink (UHS) – Operating	STD DEP 16.3-16
B 3.7.2	Reactor Building Cooling Water (RCW) System, Reactor Service Water (RSW) System and Ultimate Heat Sink (UHS) – Shutdown	STD DEP 16.3-16 STD DEP 16.3-46
B 3.7.3	Reactor Building Cooling Water (RCW) System, Reactor Service Water (RSW) System and Ultimate Heat Sink (UHS) – Refueling	STD DEP 16.3-46

Table 16.0-2 Technical Specification Bases Departures (Continued)

Bases Section	Specification Title	Applicable Departure No.
B 3.7.4	Control Room Habitability Area (CRHA) – Emergency Filtration (EF) System	STD DEP 16.3-47 STD DEP 16.3-48
B 3.7.5	Control Room Habitability Area (CRHA) – Air Conditioning (AC) System	STD DEP 16.3-76
B 3.7.6	Main Condenser Offgas	STD DEP 16.3-75
B 3.8.1	AC Sources-Operating	STD DEP 8.3-1 STD DEP 16.3-80
B 3.8.2	AC Sources-Refueling	STD DEP 8.3-1 STD DEP 16.3-40
B 3.8.3	Diesel Fuel Oil, Lube Oil, and Starting Air Subsystem	STD DEP 16.3-51
B 3.8.4	DC Sources – Operating	STD DEP T1 3.4-1 STD DEP 16.3-42
B 3.8.7	Inverters – Operating	STD DEP 8.3-1
B 3.8.8	Inverters – Shutdown	STD DEP 8.3-1 STD DEP 16.3-52
B 3.8.9	Distribution Systems – Operating	STD DEP T1 2.12-2 STD DEP 8.3-1 STD DEP 8.3-3
B 3.8.11	AC Sources – Shutdown (Low Water Level)	STD DEP 8.3-1
B 3.9.1	Refueling Equipment Interlocks	STD DEP 16.3-25
B 3.9.2	Refuel Position Rod-Out Interlock	STD DEP 16.3-14
B 3.9.3	Control Rod Position	STD DEP 7.7-18
B 3.9.4	Control Rod Position Indication	STD DEP 7.7-10
B 3.9.6	Reactor Pressure Vessel (RPV) Water Level	STD DEP 16.3-35
B 3.9.7	Residual Heat Removal (RHR) Shutdown Cooling System – High Water Level	STD DEP 16.3-9 STD DEP 16.3-12

Table 16.0-2 Technical Specification Bases Departures (Continued)

Bases Section	Specification Title	Applicable Departure No.
B 3.9.8	Residual Heat Removal (RHR) Shutdown Cooling System – Low Water Level	STD DEP 16.3-9 STD DEP 16.3-12 STD DEP 16.3-13
B 3.10.1	Inservice Leak and Hydrostatic Testing Operation	STD DEP 16.3-28
B 3.10.2	Reactor Mode Switch Interlock Testing	STD DEP 16.3-26 STD DEP 16.3-27
B 3.10.3	Control Rod Withdrawal – Hot Shutdown	STD DEP 7.7-18 STD DEP 16.3-24
B 3.10.4	Control Rod Withdrawal – Cold Shutdown	STD DEP 7.7-18 STD DEP 16.3-20
B 3.10.5	Control Rod Drive (CRD) Removal – Refueling	STD DEP 7.7-18 STD DEP 16.3-23
B 3.10.7	Control Rod Testing – Operating	STD DEP 16.3-4
B 3.10.8	Shutdown Margin (SDM) Test – Refueling	STD DEP 16.3-18
B 3.10.12	Multiple Control Rod Drive Subassembly Removal - Refueling	STD DEP 16.3-17