

16.0 Technical Specifications

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

The following site-specific supplements address COL License Information Item 16.1.

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, Technical Specification Departures

TS Section	Specification Title	Applicable Departure No.
1.1	Use and Applicable, Definitions	STD DEP T1 3.4-1
2.0	Safety Limits	STD DEP 16.2-1
3.0	Limiting Condition For Operation (LCO and SR Applicability)	STD DEP 16.3-1
3.3.1.1	Safety System Logic and Control (SSLC) Sensor Instrumentation	STD DEP T1 2.2-1 STD DEP T1 2.3-1 STD DEP T1 2.4-2 STD DEP T1 2.4-3 STD DEP 4.4-1 STD DEP 16.3-79 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

Table 16.0-1, Technical Specification Departures

TS Section	Specification Title	Applicable Departure No.
3.3.3.1	Multiplexing System	STD DEP T1 3.4-1
3.3.4.1	Anticipated Transient Without Scram (ATWS) and End-of-Cycle Recirculation Pump Trip (EOC-RPT) Instrumentation	STD DEP 16.3-38
3.3.4.2	Feedwater 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
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 8.3-1 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
3.4.2	Safety/Relief Valves (S/RVs)	STD DEP T1 2.1-1
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	STD DEP 6.2-1 STD DEP 16.3-71 STD DEP 16.3-72
3.6.1.6	Wetwell-to-Drywell Vacuum Breakers	STD DEP 6.2-2
3.6.2.1	Suppression Pool Average Temperature	STD DEP 16.3-32
3.6.2.4	Residual Heat Removal (RHR) Containment Spray	STD DEP 6.2-2
3.6.3.1	Primary Containment Hydrogen Recombiners	STD DEP T1 2.14-1

Table 16.0-1, Technical Specification Departures

TS Section	Specification Title	Applicable Departure No.
3.6.3.2	Primary Containment Oxygen Concentration	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-Operating	STD DEP 16.3-16
3.7.2	Reactor Building Cooling Water (RCW) System , Reactor Service Water (RSW) System and Ultimate Heat Sink-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-Refueling	STD DEP 16.3-46
3.7.4	Control Room Habitability Area (CRHA)-Emergency Filtration (EF) System	STD DEP 16.3-47
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
3.8.7	Inverters-Operating	STD DEP 8.3-1
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	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 STD DEP 16.3-22
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

Table 16.0-1, Technical Specification Departures

TS Section	Specification Title	Applicable Departure No.
		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

TS Section	Specification Title	Applicable Departure No.
2.0	Safety Limits	STD DEP 16.2-1 STD DEP 16.2-2
3.0	Limiting Condition For Operation (LCO and SR Applicability)	STD DEP 16.3-1 STD DEP 16.3-2
3.1.1	SHUTDOWN MARGIN (SDM)	STD DEP 16.3-4
3.1.2	Reactivity Anomalies	STD DEP 16.3-89
3.1.3	Control Rod OPERABILITY	STD DEP 16.3-68 STD DEP 16.3-90
3.1.7	Standby Liquid Control (SLC) System	STD DEP 16.3-3
3.3.1.1	Safety System Logic and Control (SSLC) Sensor Instrumentation	STD DEP T1 2.2-1 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 4.4-1 STD DEP 7.3-3 STD DEP 8.3-1 STD DEP 16.3-53 STD DEP 16.3-85 STD DEP 16.3-91 STD DEP 16.3-92 STD DEP 16.3-93
3.3.1.2	Reactor Protection System (RPS) and Main Steam Isolation Valve (MSIV) Actuation	STD DEP 7.2-3 STD DEP 16.3-54 STD DEP 16.3-57 STD DEP 16.3-81 STD DEP 16.3-82
3.3.1.3	Standby Liquid Control (SLC) and Feedwater Runback (FWRB) Actuation	STD DEP 16.3-83

Table 16.0-2, Technical Specification Bases Departures

TS Section	Specification Title	Applicable Departure No.
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 7.3-7 STD DEP 7.3-17 STD DEP 8.3-1 STD DEP 16.3-87 STD DEP 16.3-88
3.3.3.1	Essential Communication Function	STD DEP T1 3.4-1
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 16.3-38 STD DEP 16.3-55 STD DEP 16.3-56
3.3.4.2	Feedwater and Main Turbine Trip Instrumentation	STP DEP 10.4-5 STD DEP 16.3-39
3.3.5.1	Control Rod Block Instrumentation	STD DEP T1 3.4-1 STD DEP 16.3-66 STD DEP 16.3-67
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
3.3.6.2	Remote Shutdown System	STD DEP T1 2.14-1 STD DEP T1 3.4-1 STD DEP T1 8.3-1 STD DEP 16.3-59 STD DEP 16.3-60

Table 16.0-2, Technical Specification Bases Departures

TS Section	Specification Title	Applicable Departure No.
3.3.8.1	Electric Power Monitoring	STD DEP 16.3-62
3.3.8.2	Reactor Coolant Temperature Monitoring	STD DEP 16.3-63
3.4.1	Reactor Internal Pumps (RIPs)-Operating	STD DEP 16.3-5 STD DEP 16.3-6
3.4.2	Safety/Relief Valves (S/RVs)	STD DEP T1 2.1-1 STD DEP 16.3-7
3.4.3	RCS Operational LEAKAGE	STD DEP 7.3-12 STD DEP 16.3-11
3.4.7	Residual Heat Removal System (RHR) Shutdown Cooling System-Hot Shutdown	STD DEP 16.3-9
3.4.8	Residual Heat Removal System (RHR) Shutdown Cooling System-Cold Shutdown	STD DEP 16.3-9
3.4.9	RCS Pressure and Temperature (P/T) Limits	STD DEP 16.3-8
3.5.1	ECCS-Operating	STD DEP 16.3-10
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
3.6.1.2	Primary Containment Air Locks	STD DEP 6.2-2 STD DEP 16.3-70
3.6.1.3	Primary Containment Isolation Valves	STD DEP 6.2-1 STD DEP 16.3-71 STD DEP 16.3-72 STD DEP 16.3-73 STD DEP 16.3-74
3.6.1.4	Drywell Pressure	STD DEP 6.2-2
3.6.1.5	Drywell Air Temperature	STD DEP 6.2-2
3.6.1.6	Wetwell-to-Drywell Vacuum Breakers	STD DEP 6.2-2 STD DEP 16.3-34

Table 16.0-2, Technical Specification Bases Departures

TS Section	Specification Title	Applicable Departure No.
3.6.2.1	Suppression Pool Average Temperature	STD DEP 16.3-32 STD DEP 16.3-33
3.6.2.3	Residual Heat Removal (RHR) Suppression Pool Cooling	STD 16.3-36 STD 16.3-37
3.6.2.4	Residual Heat Removal (RHR) Containment Spray	STD DEP 6.2-2
3.6.3.1	Primary Containment Hydrogen Recombiners	STD DEP T1 2.14-1
3.6.3.2	Primary Containment Oxygen Concentration	STD DEP T1 2.14-1
3.6.4.1	Secondary Containment	STD DEP 16.3-29 STD DEP 16.3-30
3.6.4.3	Standby Gas Treatment (SGT) System	STD DEP 16.3-31
3.7.1	Reactor Building Cooling Water (RCW) System , Reactor Service Water (RSW) System and Ultimate Heat Sink-Operating	STD DEP 16.3-16
3.7.2	Reactor Building Cooling Water (RCW) System , Reactor Service Water (RSW) System and Ultimate Heat Sink-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-Refueling	STD DEP 16.3-46
3.7.4	Control Room Habitability Area (CRHA)-Emergency Filtration (EF) System	STD DEP 16.3-47 STD DEP 16.3-48
3.7.5	Control Room Habitability Area (CRHA)-Air Conditioning (AC) System	STD DEP 16.3-76
3.7.6	Main Condenser Offgas	STD DEP 16.3-75
3.8.1	AC Sources-Operating	STD DEP 8.3-1 STD DEP 16.3-80
3.8.2	AC Sources-Refueling	STD DEP 8.3-1 STD DEP 16.3-40
3.8.3	Diesel Fuel Oil, Lube Oil, and Starting Air	STD DEP 16.3-51
3.8.4	DC Sources-Operating	STD DEP 16.3-42 STD DEP T1 3.4-1
3.8.7	Inverters-Operating	STD DEP 8.3-1

Table 16.0-2, Technical Specification Bases Departures

TS Section	Specification Title	Applicable Departure No.
3.8.8	Inverters-Shutdown	STD DEP 16.3-52 STD DEP 8.3-1
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
3.9.2	Refuel Position Rod-Out Interlock	STD DEP 16.3-14
3.9.3	Control Rod Position	STD DEP 7.7-18
3.9.4	Control Rod Position Indication	STD DEP 7.7-10
3.9.6	Reactor Pressure Vessel (RPV) Water Level	STD DEP 16.3-35
3.9.7	Residual Heat Removal (RHR) – High Water Level	STD DEP 16.3-9 STD DEP 16.3-12
3.9.8	Residual Heat Removal (RHR) – Low Water Level	STD DEP 16.3-9 STD DEP 16.3-12 STD DEP 16.3-13
3.10.1	Inservice Leak and Hydrostatic Testing	STD DEP 16.3-28
3.10.2	Reactor Mode Switch Interlock Testing	STD DEP 16.3-26 STD DEP 16.3-27
3.10.3	Control Rod Withdrawal – Hot Shutdown	STD DEP 7.7-18 STD DEP 16.3-24
3.10.4	Control Rod Withdrawal – Cold Shutdown	STD DEP 7.7-18 STD DEP 16.3-20
3.10.5	Control Rod Drive (CRD) Removal – Refueling	STD DEP 7.7-18 STD DEP 16.3-22 STD DEP 16.3-23
3.10.7	Control Rod Testing – Operating	STD DEP 16.3-4
3.10.8	SHUTDOWN MARGIN (SDM) Test – Refueling	STD DEP 16.3-18
3.10.12	Multiple Control Rod Drive Subassembly Removal - Refueling	STD DEP 16.3-17