

1.8S Site Parameters, Interface Requirements, COL License Information Items, and Conceptual Design Information

1.8S.1 Conformance with Site Parameters

The site parameters assumed for the ABWR Design Certification are found in Chapter 5.0 of Tier 1 and Chapter 2.0 of Tier 2 of the reference ABWR DCD.

The conformance of the STP 3 & 4 site with these site parameters is evaluated in FSAR Chapter 2.0. Table 1.8S-1 provides a cross-reference to the FSAR sections in which conformance with each of the site parameters is demonstrated.

1.8S.2 Conformance to Interface Requirements

Plant design interfaces are the interfaces between the certified design and the remainder of the proposed facility design (i.e., site-specific designs).

The interface requirements for completing site-specific designs for the facility are addressed in Tier 1, Chapter 4.0 of the reference ABWR DCD. Table 1.8S-2 provides a cross-reference to the FSAR sections in which conformance to the interface requirements is described.

1.8S.3 Response to COL License Information Items

The list of the ABWR COL license information items is found in Section 1.9 of Tier 2 of the reference ABWR DCD. These COL license information items include providing completed design information for the remainder of the proposed facility referencing the reference ABWR DCD, identification of site characteristics, completion of analyses and design reports for as-built plant systems, development and implementation of operational programs, completion of designs included in design acceptance criteria, etc.

FSAR Section 1.9 provides a cross-reference to the FSAR sections in which these COL license information items are addressed.

1.8S.4 Replacement of Conceptual Design Information

The reference ABWR DCD includes conceptual designs for certain systems that are outside the scope of the standard design and are site-specific. The FSAR replaces the conceptual design information with a description and evaluation of the site-specific design. Table 1.8S-3 identifies the FSAR sections that replace the conceptual design information. These sections address the impact of any differences between the conceptual and site-specific design on the standard design and the design probabilistic risk assessment.

Table 1.8S-1 FSAR Sections that Demonstrate Conformance to Site Parameters

Parameter	FSAR Section
Maximum Ground Water Level	2.3.2.30
Maximum Flood (or Tsunami) Level	2.3.2.13
Precipitation (for Roof Design)	2.3.2.7
Ambient Design Temperature	2.3.2.7
Extreme Wind	2.3.2.7
Tornado	2.3.2.7
Soil Properties	2.3.2.28
Seismology	2.3.1.2
Meteorological Dispersion (Chi/Q)	2.3.2.9 and 2.3.2.10

Table 1.8S-2 FSAR Sections that Demonstrate Conformance to Interface Requirements

ABWR DCD Design Interface	FSAR Section
Ultimate Heat Sink	9.2.5
Offsite Power System	8.2
Makeup Water Preparation System	9.2.8
Potable and Sanitary Water System	9.2.4
Reactor Service Water System	9.2.15
Turbine Service Water System	9.2.16
Communication System	9.5.2
Site Security	13.6
Circulating Water System	10.4.5
Heating, Ventilating and Air Conditioning	9.4

Table 1.8S-3 FSAR Sections that Replace Conceptual Design Information

ABWR Conceptual Design Information	FSAR Section
Ultimate Heat Sink	9.2.5
Makeup Water Preparation System	9.2.8
Potable & Sanitary Water System	9.2.4
Reactor Service Water System	9.2.15
Turbine Service Water System	9.2.16
Non-Radioactive Drains	9.3.3.2
Power Cycle Heat Sink	10.4.5.8
Offsite Power System	8.2.5
Communication System	9.5.2
Site Security	13.6
Circulating Water System	10.4.5
HVAC	9.4