

2.1 Limits Imposed on SRP Section II Acceptance Criteria by ABWR Standard Plant

This section defines limits imposed on SRP Section II acceptance criteria by (1) the envelope of ABWR Standard Plant site design parameters given in Table 2.0-1 and (2) the assumptions, both implicit and explicit, related to site characteristics employed in the evaluation of the ABWR design. These limits are presented in Table 2.1-1 for the following five SRP Section II categories of site characteristics:

- (1) Geography and Demography
- (2) Nearby Industrial, Transportation and Military Facilities
- (3) Meteorology
- (4) Hydrology Engineering
- (5) Geology, Seismology and Geotechnical Engineering

See Subsection 2.3.2 for COL license information.

Table 2.1-1 Limits Imposed on SRP Section II Acceptance Criteria by ABWR Design

SRP Section	Subject	Limits
Geography and Demography		
2.1.1	Site Location and Description	None.
2.1.2	Exclusion Area Authority and Control	None.
2.1.3	Population Distribution	None.
Nearby Industrial, Transportation and Military Facilities		
2.2.1 - 2.2.2	Identification of Potential Hazards in Site Vicinity	Identify potential hazards in the site vicinity that have a probability of occurrence $>10^{-7}$ per year which produce: (1) missiles more energetic than the tornado missile spectra, or (2) pressure effects in excess of the design basis tornado.
2.2.3	Evaluation of Potential Accidents	Evaluate only those potential hazards identified above.
Meteorology		
2.3.1	Regional Climatology	Per Table 2.0-1.
2.3.2	Local Meteorology	None.
2.3.3	Onsite Meteorological Measurement Programs	None.
2.3.4	Short-Term Diffusion Estimates for Accidental Atmospheric Releases	Show that the site meteorological dispersion values as calculated in accordance with Regulatory Guide 1.145, and compared to dose values given in Chapter 15, result in doses less than stipulated in 10CFR100 and the applicable portions of SRP Sections 11 and 15.
2.3.5	Long-Term Diffusion Estimates	None.
Hydrology Engineering		
2.4.1	Hydraulic Description	Per Table 2.0-1.
2.4.2	Floods	Per Table 2.0-1.
2.4.3	Probable Maximum Flood on Streams and Rivers	None.
2.4.4	Potential Dam Failures Seismically Induced	Demonstrate that failure of existing and potential upstream or downstream water control structures will not exceed flooding 30.5 cm below grade.

Table 2.1-1 Limits Imposed on SRP Section II Acceptance Criteria by ABWR Design (Continued)

SRP Section	Subject	Limits
2.4.5	Probable Maximum Surge and Seiche Flooding	Probable maximum surge and seiche flooding level 30.5 cm below grade.
2.4.6	Probable Maximum Tsunami	Probable maximum tsunami flooding level 30.5 cm below grade.
2.4.7	Ice Effects	None.
2.4.8	Cooling Water Channels and Reservoirs	None.
2.4.9	Channel Diversion	None.
2.4.10	Flooding Protection Requirements	None.
2.4.11	Cooling Water Supply	None.
2.4.12	Groundwater	Per Table 2.0-1.
2.4.13	Accidental Releases of Liquid Effluents in Ground and Surface Waters	None.
2.4.14	Technical Specifications and Emergency Operation Requirement	None.
Geology, Seismology and Geotechnical Engineering		
2.5.1	Basic Geology and Seismic Information	None.
2.5.2	Vibratory Ground Motion	Per Table 2.0-1.
2.5.3	Surface Faulting	No faulting at or near the ground surface is accepted.
2.5.4	Stability of Subsurface Materials and Foundations	Per Table 2.0-1.
2.5.5	Stability of Slopes	None.