

3.3 Wind and Tornado Loadings

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

3.3.1.1 Design Wind Velocity

The information in this subsection of the reference ABWR DCD is incorporated by reference with the following standard supplement.

The 177 km/h for 50 year recurrence interval and 197 km/h for 100 year recurrence interval are based on Reference 3.3-1, which is "fastest mile". Per Reference 3.3-4 Table 1609.3.1, these correspond to a wind velocity (3 second gust) of 203 km/h with a recurrence interval of 50 years and 225 km/h with a recurrence interval of 100 years.

3.3.1.2 Determination of Applied Forces

The information in this subsection of the reference ABWR DCD is incorporated by reference with the following standard supplement.

The applied forces and the procedure used to determine the wind loading on the ~~ultimate heat sink~~ Ultimate Heat Sink are described in Appendix 3H.6.

3.3.2.2 Determination of Forces on Structures

The information in this subsection of the reference ABWR DCD is incorporated by reference with the following standard supplement.

The applied forces and procedure used to determine the tornado loading on the ~~ultimate heat sink~~ Ultimate Heat Sink are described in Appendix 3H.6.

3.3.3 COL License Information

3.3.3.1 Site-Specific Design Basis Wind

The following site-specific supplement addresses COL License Information Item 3.1.

The site-specific design basis wind does not exceed the design basis wind given in Table 2.0-1 of the reference ABWR DCD.

3.3.3.2 Site-Specific Design Basis Tornado

The following site-specific supplement addresses COL License Information Item 3.2.

The site-specific design basis tornado does not exceed the design basis tornado given in Table 2.0-1 of the reference ABWR DCD.

3.3.3.3 Effect of Remainder of Plant Structures, Systems and Components Not Designed for Wind Loads

The following site-specific supplement addresses COL License Information Item 3.3.

The design criteria for plant structures, systems and components (SSCs) not designed for wind loads are as follows: Such SSCs not designed for wind loads are analyzed using the 1.11 importance factor or are checked to ensure that their mode of failure will not affect the ability of safety-related SSCs to perform their intended safety functions.

3.3.3.4 Effect of Remainder of Plant Structures, Systems, and Components Not Designed for Tornado Loads

The following site-specific supplement addresses COL License Information Item 3.4.

The design criteria for plant SSCs not designed for tornado loads are as follows: Such plant SSCs not designed for tornado loads are analyzed for the site-specific loadings to ensure that their mode of failure will not affect the ability of safety-related SSCs to perform their intended safety functions.

3.3.4 References

The information in this subsection of the reference ABWR DCD is incorporated by reference with the following standard supplement.

3.3-4 International Code Council, 2003 International Building Code.