4.0 DESIGN FEATURES

The information in this section of the reference ABWR DCD, including all subsections, is incorporated by reference with the following site-specific supplements. The site-specific supplements partially address COL License Information Item 16.1.

4.1~~4.0~~ *Site*

4.1.1 Site and Exclusion Area Boundaries

The site and exclusion area boundaries ~~[shall be as described or~~ are *as shown in* FSAR *Figure ~~4.1-1~~* 2.1S-3~~]~~.

4.1.2 Low Population Zone (LPZ)

The LPZ ~~[shall be~~ is ~~as described or~~ as shown in FSAR *Figure ~~4.1-2~~* 2.1S-3~~]~~.

4.3 Fuel Storage

4.3.1 Criticality

4.3.1.1 The spent fuel storage racks are designed and shall be maintained with:

a. *Fuel assemblies having a maximum k-infinity of 1.35 in the normal reactor core configuration at cold conditions;*

b. *k_{eff} ≤ 0.95 if fully flooded with unborated water, which includes an allowance for uncertainties as described in Section 9.1 of the DCD Tier 2.*

4.3.1.2 The new fuel storage racks are designed and shall be maintained with:

a. *Fuel assemblies having a maximum k-infinity of 1.35 in the normal reactor core configuration at 20ºC;*

b. *k_{eff} ≤ 0.95 if fully flooded with unborated water, which includes an allowance for uncertainties as described in Section 9.1 of the DCD Tier 2;*

c. *k_{eff} ≤ 0.98 if moderated by aqueous foam, which includes an allowance for uncertainties as described in Section 9.1 of the DCD Tier 2; and*

d. *A nominal ~~[~~approximately 16~~]~~ cm center to center distance between fuel assemblies placed in storage racks.*

~~*(This figure shall be supplied by the COL applicant.)*~~

~~*This figure shall consist of [a map of] the site area and provide, as a minimum, the information described in Section [2.1.2] of the FSAR relating to [the map].*~~

~~*Figure 4.1-1 (page 1 of 1)*~~
~~*Site and Exclusion Area Boundaries*~~

~~*(This figure shall be supplied by the COL applicant.)*~~

~~*This figure shall consist of [a map of] the site area showing the LPZ boundary. Features such as towns, roads, and recreational areas shall be indicated in sufficient detail to allow identification of significant shifts in population distribution within the LPZ.*~~

~~*Figure 4.1-2 (page 1 of 1)*~~
~~*Low Population Zone*~~

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