

2.11 Station Auxiliary Systems

The information in this section of the reference ABWR DCD, including all subsections, tables, and figures, as modified by the STP Nuclear Operating Company Application to Amend the Design Certification rule for the U.S. Advanced Boiling Water Reactor (ABWR), "ABWR STP Aircraft Impact Assessment (AIA) Amendment Revision 3," dated September 23, 2010 is incorporated by reference with the following departure.

STD DEP T1 2.14-1(Table 2.11.3b, Table 2.11.3c)

**Table 2.11.3b Reactor Building Cooling Water Cooling Loads
Division B**

| Operating Mode/Components* | Normal Operating Conditions | Shutdown | Hot Standby (loss of AC Power) | Emergency (LOCA) |
|---|--|-----------------|---|-----------------------------|
| <i>RCW/RSW Heat Exchangers In Service</i> | 2 | 3 | 3 | 3 |
| SAFETY-RELATED | | | | |
| <i>Emergency Diesel Generator B</i> | † | † | ‡ | ‡ |
| <i>RHR Heat Exchanger B</i> | † | ‡ | ‡ | ‡ |
| <i>Others (safe-related)^f</i> | ‡ | ‡ | ‡ | ‡ |
| NON-SAFETY RELATED | | | | |
| <i>RWCU Heat Exchanger</i> | ‡ | ‡ | ‡ | † |
| <i>FPC Heat Exchanger B**</i> | ‡ | ‡ | ‡ | ‡ |
| <i>Inside Drywell</i> | ‡ | ‡ | ‡ | † |
| <i>Others (non-safety-related)</i> | ‡ | ‡ | ‡ | ‡ |

* Some of these cooling loads are serviced by only one or two RCW divisions. These components may be reassigned to other RCW divisions if redundancy and divisional alignment of supported and supporting systems is maintained and the design basis cooling capacity of the RCW divisions is assured.

† Equipment does not receive RCW in this mode.

‡ Equipment receives RCW in this mode.

^f HECW refrigerators, room coolers (RHR, HPCF, SGTS, FGS, CAMS), RHR and HPCF motor bearing and seal coolers, and CAMS cooler.

** Includes FPC room cooler.

**Table 2.11.3c Reactor Building Cooling Water Cooling Loads
Division C**

| Operating Mode/Components* | Normal Operating Conditions | Shutdown | Hot Standby (loss of AC Power) | Emergency (LOCA) |
|--|--|-----------------|---|-----------------------------|
| <i>RCW/RSW Heat Exchangers In Service</i> | 2 | 3 | 3 | 3 |
| SAFETY-RELATED | | | | |
| <i>Emergency Diesel Generator C</i> | † | † | ‡ | ‡ |
| <i>RHR Heat Exchanger C</i> | † | ‡ | ‡ | ‡ |
| <i>Others (safety-related)^f</i> | ‡ | ‡ | ‡ | ‡ |
| NON-SAFETY-RELATED | | | | |
| <i>Others (Non-safety-related)</i> | ‡ | ‡ | ‡ | ‡ |

* Some of these cooling loads are serviced by only one or two RCW divisions. These components may be reassigned to other RCW divisions if redundancy and divisional alignment of supported and supporting systems is maintained and the design basis cooling capacity of the RCW divisions is assured.

† Equipment does not receive RCW in this mode.

‡ Equipment receives RCW in this mode.

^f HECW refrigerators, room coolers SGTS, ~~and FCS~~ room coolers; room coolers, motor bearing coolers, and mechanical seal coolers for RHR and HPCF.

