18H Supporting Analysis for Emergency Operation Information and Controls

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

STD DEP T1 2.3-1

STD DEP T1 2.14-1

STD DEP 10.4-5

As required by Section IV.A.3 of Appendix A to Part 52, the ABWR Design Certification Rule, the plant-specific DCD must physically include the proprietary and safeguards information referenced in the ABWR DCD. Appendix 18H in the reference ABWR DCD references proprietary information. That proprietary information, including all subsections and tables, is provided in COLA Part 10, has finality in accordance with Section VI.B.2 of the ABWR Design Certification Rule, and does not constitute a supplement to or departure from the reference ABWR DCD, except for the following standard departures. In all other respects, this appendix is unchanged and appears as referenced in the ABWR DCD.

STD DEP T1 2.3-1

As a result of the deletion of the automatic Scram and MSIV closure on high Main Steamline (MSL) radiation monitor trip, subsections and tables are incorporated by reference with the exception of the following portions of tables which make specific reference to controls, displays, and alarms associated with the Scram and MSIV automatic closure on high MSL radiation monitor trip:

- Table 18H-2, “INVENTORY BASED UPON THE ABWR EPGs – RPV CONTROL GUIDELINE ENTRY CONDITIONS – MONITORING (Continued) MAIN STEAMLINE RADIATION (Continued),” EPG ENTRY step for MSL High Radiation condition which requires reactor scram (ENTRY CONDITION).

- Table 18H-12, “INVENTORY OF CONTROLS BASED UPON THE ABWR EPGs AND PRA,” MSL isolation reset and MSL isolation logic bypass for MSL High Radiation Isolation function only.

Additional information is provided in FSAR Tables 18F-1, 18F-2 and 18F-3. For example, disposition of MSL Radiation monitor displays and alarms as “other” vice “fixed position” is provided in FSAR Tables 18F-2 and 18F-3.

STD DEP T1 2.14-1

As a result of the removal of the Flammability Control System (FCS), subsections and tables are incorporated by reference with the exception of the following portions of tables which make specific reference to equipment, controls, and/or displays associated with the FCS and are not applicable:

- Table 18H-3, “INVENTORY BASED UPON THE ABWR EPGs – PRIMARY CONTAINMENT CONTROL GUIDELINE – PRIMARY CONTAINMENT HYDROGEN CONTROL PC/H,” Step PC/H (override statement) references to FCS operation and associated controls, displays and alarms.

- Table 18H-3, “INVENTORY BASED UPON THE ABWR EPGs – PRIMARY CONTAINMENT CONTROL GUIDELINE – PRIMARY CONTAINMENT HYDROGEN CONTROL PC/H-2,” Steps PC/H-2.1 and PC/H-2.2 in their entirety.

- Table 18H-3, “INVENTORY BASED UPON THE ABWR EPGs – PRIMARY CONTAINMENT CONTROL GUIDELINE – PRIMARY CONTAINMENT HYDROGEN CONTROL PC/H-3,” Step PC/H-3.1 in its entirety.

- Table 18H-4, “INVENTORY BASED UPON THE ABWR EPGs – SECONDARY CONTAINMENT CONTROL GUIDELINE – SECONDARY CONTAINMENT TEMPERATURE CONTROL SC/T-1,” Step SC/T-1 references to FCS room coolers operation and associated controls, displays and alarms.

- Table 18H-4, “INVENTORY BASED UPON THE ABWR EPGs – SECONDARY CONTAINMENT CONTROL GUIDELINE – SECONDARY CONTAINMENT TEMPERATURE CONTROL SC/T-3,” Step SC/T-3 references to FCS operation and associated controls, displays and alarms.

- Table 18H-12, “INVENTORY OF CONTROLS BASED UPON THE ABWR EPGs AND PRA,” entries associated with FCS controls.

- Table 18H-13 “INVENTORY OF DISPLAYS BASED UPON THE ABWR EPGs AND PRA,” entries associated with FCS displays.

For additional information, refer to FSAR Tables 18F-1 and 18F-2.

STD DEP 10.4-5

The term Condensate as used throughout Appendix 18H to describe components in the Condensate and Feedwater System (CFS) has been changed due to the addition of Condensate Booster pumps. Consequently, system lineup, status, controls and other devices associated with referenced CFS components include those associated with Condensate Booster pumps, as required. For example, specific references to Condensate Pump mode switches also include corresponding switches for Condensate Booster pumps, as required by the analysis, such as indicated by Table 18F-1, Fixed Position Controls, items number 21 and 23.