

18.7 Detailed Design of the Operator Interface System

The standard design features of the ABWR main control room HSI (Subsection 18.4.2, provide the framework for the detailed equipment hardware and software designs that will be developed following the design and implementation process described in Appendix 18E. This process is made up of eight major elements and illustrated in Figure 18E-1.

As part of the Appendix 18E discussion of the HSI design and implementation plan elements, detailed acceptance criteria are specified that shall be used to govern and direct all ABWR HSI design implementations which reference the Certified Design. These detailed acceptance criteria, presented in Section 18E.2 of Appendix 18E, encompass the set of necessary and sufficient design implementation related activities required to maintain the implemented HSI design in compliance with accepted HFE principles and accepted digital electronics equipment and software development methods.

As part of the detailed design implementation process described in Appendix 18E, operator task analyses will be performed as a basis for evaluating details of the design implementation and HSI requirements will be specified. These HSI requirements will include the instrumentation and controls listed in Tables 18F-1 through 18F-3 as a subset. The evaluation of the integrated control room design will include the confirmation of the ABWR main control room standard design features.