

## **13.3 Emergency Planning**

Emergency planning is not within the scope of the ABWR design. However, there are design features, facilities, functions, and equipment necessary to support emergency planning. The design features in the ABWR Standard Plant scope include the technical support center (TSC) and the operational support center (OSC), which are described in Table 13.3-1. The emergency operations facility (EOF), also described in Table 13.3-1, is beyond the scope of the ABWR design and is addressed as COL license information in Subsection 19A.3.4 relative to the 50.34(f)(2)(XXV) requirement. Additional ABWR design considerations pertaining to emergency planning are contained in Table 13.3.-1. The COL applicant shall provide emergency plans in accordance with 10CFR50.33(g) and 52.79(a). See Subsection 13.3.1.1 for COL license information. |

### **13.3.1 COL License Information**

#### **13.3.1.1 Emergency Plans**

The COL applicant shall provide emergency plans in accordance with 10CFR50.33(g) and 52.79(a). (See Section 13.3) |

**Table 13.3-1  
ABWR Design Considerations for Emergency Planning Requirements**

Facility	Primary Document/Section	Emergency Planning Requirements	ABWR Design Consideration
Technical Support Center (TSC)	NUREG-0696/1.3.1	<p>The TSC is an onsite facility located close to the control room that shall provide plant management and technical support to the reactor operating personnel located in the control room during emergency conditions. It shall have technical data displays and plant records available to assist in the detailed analysis and diagnosis of abnormal plant conditions and any significant release of radioactivity to the environment. The TSC shall be the primary communications center for the plant during an emergency. A senior official, designated by the licensee, shall use the resources of the TSC to assist the control room operators by handling the administrative items, technical evaluations, and contact with offsite activities, relieving them of these functions. The TSC facilities may also be used for performing normal functions, such as shift technical supervisor and plant operations/ maintenance analysis functions, as well as for emergencies.</p>	<p>The ABWR Standard Plant will comply with all the TSC design requirements. Specifically, a TSC of sufficient size (at least 175 m<sup>2</sup> of floor space) to support 25 people is located in the service building adjacent to the control building. The TSC is non-safety-related and is not Seismic Category I. The necessary facilities and equipment are called for in Section 2 of NUREG-0696.</p> <p>The TSC has displays for the plant parameters which are included in the fixed position displays on the Main Control Room Panels.</p> <p>The TSC has voice communication equipment for communication with the Main Control Room, Emergency Operations Facility, Operational Support Center (OSC), and NRC Headquarters Operation Center.</p> <p>As shown on Figure 12.3-64, the TSC has an installed area radiation monitor.</p>

**Table 13.3-1  
ABWR Design Considerations for Emergency Planning Requirements (Continued)**

<b>Facility</b>	<b>Primary Document/ Section</b>	<b>Emergency Planning Requirements</b>	<b>ABWR Design Consideration</b>
Operational Support Center (OSC)	NUREG-0696/ 1.3.2	The OSC is an onsite assembly area separate from the control room and the TSC where licensee operations support personnel report in an emergency. There is direct communications between the OSC and the control room and between the OSC and the TSC so that the personnel reporting to the OSC can be assigned to duties in support of emergency operations.	The ABWR Standard Plant will comply with all the OSC design requirements. Specifically, the lunch room adjacent to the TSC in the service building which is adjacent to the control building will be identified as the OSC. The OSC is non-safety-related and is not seismic Category I. The OSC has voice communication equipment for communication with the main control room and the TSC. The COL applicant is responsible for identifying the communication interfaces for inclusion in the detailed design of the control room and TSC. The detailed requirements are provided in Section 3 of NUREG-0696.

**Table 13.3-1  
ABWR Design Considerations for Emergency Planning Requirements (Continued)**

Facility	Primary Document/ Section	Emergency Planning Requirements	ABWR Design Consideration
Emergency Operations Facility (EOF)	NUREG-0696/ 1.3.3	The EOF is an offsite support facility for the management of overall licensee emergency response, coordination of radiological and environmental assessments and determination of recommended public protective actions. The EOF has appropriate technical data displays and plant records to assist in the diagnosis of plant conditions to evaluate the potential or actual release of radioactive materials to the environment. A senior licensee official in the EOF organizes and manages licensee offsite resources to support the TSC and the control room operators. Assembly area separate from the control room and the TSC, shall be provided for operations support personnel to report in an emergency. There shall be direct communications between the OSC and control room and between the OSC and the TSC so that the personnel reporting to the OSC can be assigned to duties in emergency operations.	The EOF is not within the scope of the ABWR Standard Plant. It is the responsibility of the COL applicant to identify his EOF and the communication interfaces for inclusion in the detailed design of the TSC and control room. The detailed requirements are provided in Section 4 of NUREG-0696.
Emergency Operations Center (EOC)	NUREG-0654/ II.H.6	Each licensee shall make provision to acquire data from or for emergency access to offsite monitoring equipment including geophysical phenomena and radiological monitors.	Not within the scope of the ABWR Standard Plant. However, no impact on ABWR design.
Laboratory Facilities, Fixed or Mobile	NUREG-0654/ II.H.6.c	Provisions to acquire data from or for emergency access to offsite monitoring and analysis equipment for laboratory facilities, fixed or mobile.	Responsibility of COL applicant. ABWR design allows applicant to meet this requirement.

**Table 13.3-1  
ABWR Design Considerations for Emergency Planning Requirements (Continued)**

<b>Facility</b>	<b>Primary Document/ Section</b>	<b>Emergency Planning Requirements</b>	<b>ABWR Design Consideration</b>
Post-Accident Sampling System	NUREG-0737/ II.B.3	Post-accident sampling capability.	The counting room for analyzing post-accident samples is located in the Service Building. Post-accident sampling system of Subsection 9.3.2 meets requirements except as described in Section 1A.2.7 for the upper limit of activity in the samples at the time they are taken.
Onsite Decontamination Facility	10CFR50 Appendix E/ IV.E.3	Provisions shall be made and described for facilities and supplies at the site for decontamination of onsite individuals.	Decontamination of onsite individuals will be provided by the COL applicant in the service building adjacent to the main change rooms (See Figure 1.2-20).