

## 15.7 Radioactive Release from Subsystems and Components

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

### 15.7.6 COL License Information

#### 15.7.6.1 Radiological Consequences of Non-Line Break Accidents

The following site-specific supplements address COL License Information Item 15.9.

##### Radwaste System Failure Accident (Liquid Radwaste Tank Accident)

The STP 3&4 site-specific Exclusion Area Boundary (EAB) short-term release (accident)  $\chi/Q$  is  $1.96E-04 \text{ sec/m}^3$ . Table 15.7-7 of the reference ABWR DCD provides radwaste system failure EAB doses as a function of  $\chi/Q$ . The STP 3 & 4 thyroid and whole body doses associated with a radwaste system failure are a fraction of the 10 CFR 100 criteria and are provided below:

Meteorology ( $\text{sec/m}^3$ )	Distance (m)	Thyroid Dose (Sv)	Whole Body Dose (Sv)
1.96E-04	EAB	4.1E-02	3.4E-05

##### Fuel Handling Accident

Table 15.7-11 of the reference ABWR DCD provides fuel handling accident (FHA) EAB doses as a function of  $\chi/Q$ . The STP 3 & 4 thyroid and whole body doses associated with a FHA are within the guidelines of 10 CFR 100 criteria and are provided below:

Meteorology ( $\text{sec/m}^3$ )	Distance (m)	Thyroid Dose (Sv)	Whole Body Dose (Sv)
1.96E-04	EAB	1.1E-01	1.8E-03

Fuel Cask Drop Accident

Table 15.7-14 of the reference ABWR DCD provides fuel cask drop accident EAB doses as a function of  $\chi/Q$ . The STP 3 & 4 thyroid and whole body doses associated with a fuel cask drop accident are within the guidelines of 10 CFR 100 criteria and are provided below:

<b>Meteorology (sec/m<sup>3</sup>)</b>	<b>Distance (m)</b>	<b>Thyroid (Sv)</b>	<b>Whole Body (Sv)</b>
1.96E-04	EAB	8.0E-03	1.4E-05