

**Table 14.3-1a Design Basis Accident Analysis Key Design Features
(Sheet 1 of 8)**

Tier 1 Ref.⁽¹⁾	Key Design Features	Tier 2 Location⁽²⁾
1.2.5	US-APWR rated reactor core thermal power is 4451 MWt.	1.1.4 Table 4.4-1 Table 6.2.1-4 Table 15.0-2 Table 15.6.5-1 Ch. 16, TS 1.1
Table 2.3-2 ITAAC #1.a Each ASME ITAAC in 2.4.1, 2.4.2 2.4.4, 2.4.5 2.4.6	RCPB components are designed and fabricated in accordance with 10 CFR 50.55a which requires compliance with the requirements for Class 1 components in the American Society of Mechanical Engineers (ASME) Code.	5.2 6.3 9.3.4
2.2.1.2 Table 2.2-4 ITAAC #3, #5 Table 2.11.1-1 Table 2.11.1-2 ITAAC #1	The PCCV is a prestressed concrete structure designed to endure the peak pressure and temperature for LOCA, and steamline and feedline break conditions.	3.8.1.3 Table 3.8.1-1 6.2.1.1 Table 6.2.1-2
Table 2.2-1 Table 2.2-4 ITAAC #3, #5 2.11.1.1 Table 2.11.1-2 ITAAC #1	The PCCV is designed and constructed in accordance with ASME Code, Section III, and the PCCV is classified as seismic Category I structure.	3.8.1.2 6.2.7
2.2.1.2 Table 2.11.1-2 ITAAC #3	The liner plate is not designed or analyzed as a strength structural element. The minimum concrete design compressive strength (f'c) for the PCCV is 76000 psi. The minimum concrete design compressive strength (f'c) for the basemat is 54000 psi. The ultimate capacity for the PCCV is estimated based on cumulative yield strength of steel materials such as rebars, tendons, and liner plate.	3.8.1.1.1 Table 6.2.1-2 19.2.4.1
Figure 2.11.1-1 Table 2.11.1-2 ITAAC #3	The inner height of the containment is approximately 226.5 ft and the inside diameter of the containment cylinder measures approximately 149 ft. The containment dome is 3 ft.-8 in. or 4 ft.-4 in. thick, while the containment wall thickness is 4 ft.-4 in. The inner surface of containment includes a 0.25 in. welded steel plate liner anchored to the concrete.	6.2.1.1.2

NOTES: (1) Source: Tier 1 section or table. (2) Tier 2 location or table where addressed.

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