
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

APR1400 Design Certification

Korea Electric Power Corporation / Korea Hydro & Nuclear Power Co., LTD

Docket No. 52-046

RAI No.: 546-8782
SRP Section: 14.03.03 - Piping Systems and Components - Inspections, Tests, Analyses, and Acceptance Criteria
Application Section: 14.3.2.3
Date of RAI Issue: 05/03/2017

Question No. 14.03.03-7

DCD Tier 1, Table 2.3-1 lists systems with ASME Section III Class 1, 2, and 3 Piping Systems and Components. Earlier discussion in DCD Tier 1, Section 2.3 refers to the systems in this table as "designed to retain their pressure integrity and functional capability under internal design and operating pressures and design basis loads." Upon staff review of the table, it was noted that DCD Tier 1 Section 2.11.3, the Containment Isolation System, was not a listed system. Please include this system or provide justification to preclude its presence in this table.

Response

Section 2.11.3, containment isolation system will be added in DCD Tier 1, Table 2.3-1.

Impact on DCD

DCD Tier 1, Table 2.3-1 will be revised to add Section 2.11.3, containment isolation system.

Impact on PRA

There is no impact on the PRA.

Impact on Technical Specifications

There is no impact on the Technical Specifications.

Impact on Technical/Topical/Environmental Reports

There is no impact on the Technical/Topical/Environmental Reports.

APR1400 DCD TIER 1

Table 2.3-1

Systems with ASME Section III Class 1, 2, and 3 Piping Systems and Components

Tier 1 Section	System Name	ASME Section III			LBB
		1	2	3	
2.4.1	Reactor Coolant System	V			V
2.4.2	In-containment Water Storage System	-	V	-	-
2.4.3/ 2.4.4	Safety Injection/Shutdown Cooling System	V	V	-	V
2.4.5	Reactor Coolant Gas Vent System	V	V	V	-
2.4.6	Chemical and Volume Control System	V	V	V	
2.6.2	Emergency Diesel Generator System	-	-	V	-
2.7.1.2	Main Steam System	-	V	V	-
2.7.1.4	Condensate and Feedwater System	-	V	-	-
2.7.1.5	Auxiliary Feedwater System	-	V	V	-
2.7.1.8	Steam Generator Blowdown System	-	V	-	-
2.7.2.1	Essential Service Water System	-	-	V	-
2.7.2.2	Component Cooling Water System	-	V	V	-
2.7.2.3	Essential Chilled Water System	-	-	V	-
2.7.2.5	Equipment and Floor Drainage System	-	V	V	-
2.7.2.6	Process and Post-Accident Sampling System	-	V	V	-
2.7.4.3	Spent Fuel pool Cooling and Cleanup System	-	V	V	-
2.7.6.2	Gaseous Waste Management System	-	V	-	-
2.11.2	Containment Spray System	-	V	-	-

2.11.3	Containment Isolation System	-	V	-	-
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