
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. 14.03.03-4

In DCD Tier 1, ITAAC 2.2.6.2 discusses the Design Commitment for the ASME Code components identified in Table 2.2.6-1 to be designed and constructed in accordance with ASME Section III Subsection NG requirements. The ITA for this Design Commitment is that “Inspection of the fabricated components will be performed.” This wording is inconsistent with similar ITAAC for other Tier 1 sections, in that it specifically excludes the phrase “as-built” when describing the components. The applicant is requested to provide an explanation for this inconsistency, or to align the wording of this ITAAC with the similar ITAAC found in other Tier 1 sections.

Response

The DCD Tier 1, Table 2.2.6-2 is being revised to include the phrase “as-built”.

Impact on DCD

The DCD Tier 1, Table 2.2.6-2 (1 of 2) will be revised as shown in the Attachment.

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 any Technical, Topical or Environmental Report.

APR1400 DCD TIER 1

Table 2.2.6-2 (1 of 2)

Reactor Vessel Internals ITAAC

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
1. The functional arrangement of the reactor vessel internals is as described in the Design Description of Subsection 2.2.6.1 and in Table 2.2.6-1 and as shown in Figures 2.2.6-1 and 2.2.6-2.	1. Inspection of the as-built reactor vessel internals will be performed.	1. The as-built reactor vessel internals conform with the functional arrangement as described in the Design Description of Subsection 2.2.6.1 and in Table 2.2.6-1 and as shown in Figures 2.2.6-1 and 2.2.6-2.
2. The ASME Code components identified in Table 2.2.6-1 are designed and constructed in accordance with ASME Section III Subsection NG requirements.	2. Inspection of the fabricated components will be performed.	2. The ASME Section III design report or data report exists and concludes that the fabricated components identified in Table 2.2.6-1 are designed and constructed in accordance with ASME Section III Subsection NG requirements.
3. The seismic Category I components identified in Table 2.2.6-1 can withstand seismic design basis loads without loss of safety function.	3.a Inspections will be performed to verify that the as-built seismic Category I components are located in the seismic Category I structure.	3.a The as-built seismic Category I components identified in Table 2.2.6-1 are located in the seismic Category I structure.
	3.b Type tests, analyses or a combination of type tests and analyses of seismic Category I components will be performed .	3.b A report exists and concludes that the seismic Category I components identified in Table 2.2.6-1 can withstand seismic design basis loads without loss of safety function.
	3.c Inspections will be performed to verify that the as-built seismic Category I components are seismically bounded by the tested or analyzed conditions.	3.c A report exists and concludes that the as-built seismic Category I components identified in Table 2.2.6-1 are seismically bounded by the tested or analyzed conditions.