

REVISED 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.: 78-8021

SRP Section: 14.03 Inspections, Tests, Analyses, and Acceptance Criteria

Application Section: 14.03.03

Date of RAI Issue: 07/15/2015

Question No. 14.03.03-1

Section 1.3 of DCD Tier 1 states that “The figure legend and acronym and abbreviation list are provided for information only and are not part of the Tier 1 DCD” A similar statement appears in multiple tables, such as Table 2.4.1-3 (page 2.4-9) where it states “The column ‘Item No.’ is information only (not part of certified design).” This language could create confusion about the process for changing Tier 1 information described in 10 CFR 52.63. In particular, the idea of “information only” material appears to differ from the definitions of Tier 1 information that have appeared in previous design certification rule Appendices to 10 CFR Part 52. Therefore, it should be revised for consistency with these processes and in a manner that retains a unique (though possibly generically phrased) identifier that enables traceability of component information throughout the DCD. A related example can be found in the AP1000 DCD Tier 1 on page 1.2-2, where the “Interpretation of Figures” section provides some discussion on as-built attributes and their relationship to safety functions that has been accepted by the NRC staff; however, this does not extend to item numbers.

Response – (Rev.1)

A definition of “item number” will be inserted in 1.1 Definition subsection to describe the process similar to that of “Interpretation of Figures” used in Tier 1 Section 1.2.4. [Similar notes such as “The column “Item No.” is information only \(not part of certified design\)” will be deleted throughout Tier 1.](#)

Impact on DCD

[DCD Tier 1 Section 1.1 and Table 2.4.1-3 \(page 2.4-9\) will be revised as indicated on the attached markup. The following tables will be revised the same way as Table 2.4.1-3: Table 2.4.1-2 and 3, 2.4.2-2 and 3, 2.4.3-2 and 3, 2.4.4-2 and 3, 2.4.5-2 and 3, 2.4.6-2 and 3, 2.6.2-](#)

2, 2.7.1.2-2 and 3, 2.7.1.4-2 and 3, 2.7.1.5-2 and 3, 2.7.1.8-2, 2.7.2.1-2 and 3, 2.7.2.2-2 and 3, 2.7.2.3-2 and 3, 2.7.2.5-2 and 3, 2.7.2.6-2 and 3, 2.7.3.1-1 and 2, 2.7.6-2 and 3, 2.7.3.2-1 and 2, 2.7.3.3-1 and 2, 2.7.3.5-1 and 2, 2.7.4.3-2 and 3, 2.7.5.2-1 and 2, 2.7.6.1-1, 2.7.6.2-2 and 3, 2.7.6.3-1, 2.7.6.4-1, 2.7.6.5-1, 2.11.2-2 and 3, 2.11.3-1, and 2.11.4-1 and 2.

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 Report

There is no impact on any Technical, Topical, or Environment Reports.

APR1400 DCD TIER 1

Description and to the extent such equipment is located in a harsh environment during or following a design basis accident.

Test means the actuation or operation, or establishment of specified conditions, to evaluate the performance or integrity of as-built structures, systems, or components, unless explicitly stated otherwise.

Type Test means a test on one or more sample components of the same type and manufacturer to qualify other components of that same type and manufacturer. A type test is not necessarily a test of the as-built structures, systems or components.

Item number

Item numbers used in Tier 1 represent the complete item number or a portion of the item number used to identify the actual hardware (or associated software). The Tier 1 item number format conforms to the full equipment number from which the plant designator and safety designator are omitted. Tier 1 item numbers are not part of the Tier 1 material.

Item number

Item numbers are used to identify structures, systems and components in Tier 1 tables, figures, and text and are not representative of an actual equipment or tag numbers.

APR1400 DCD TIER 1

Table 2.4.1-3 (2 of 2)

Instrument Name	Item No. ⁽⁺⁾	ASME Section III Class	Seismic Category	Class 1E /Harsh Envir. Qual.	Display / Alarm at MCR	Display / Alarm at RSR
Refueling Water Level (NR)	L-105, 106	-	II	No/No	Yes/Yes	-/-
Refueling Water Level (WR)	L-115, 116	-	II	No/No	Yes/No	-/-
SG Pressure	P-1013A, B, C, D P-1023A, B, C, D	-	I	Yes/Yes	Yes/Yes	Yes/Yes
SG Level (NR)	L-1114A, B, C, D L-1124A, B, C, D	-	I	Yes/Yes	Yes/Yes	-/-
SG Level (WR)	L-1113A, B, C, D L-1123A, B, C, D	-	I	Yes/Yes	Yes/Yes	Yes Yes

(1) ~~The column "Item No." is information only (not part of certified design).~~

(2) Dash(-) indicates not applicable.

(3) No alarm.

(4) Trend is displayed instead of indication.

Similar notes to be deleted throughout Tier 1

All the statements written below in multiple page will be deleted in whole Tier-1 DCD

– The column "Item No." is information only (not part of certified design)