

## **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.: 66-8044**

**SRP Section: 17.03 - Quality Assurance Program Description 08/1990**

**Application Section: 17.03**

**Date of RAI Issued: 07/09/2015**

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#### **Question No. 17.03-1**

Combined License (COL) Information described in section 17.3 of the DCD does not have an associated identification number.

Please revise section 17.3 to include a COL Information number similar to section 17.5 of the DCD to be used for tracking purposes.

#### **Response**

Section 17.3 will be revised to include a COL Information number for tracking purposes.

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#### **Impact on DCD**

DCD Section 17.3 and Table 1.8-2 will be revised as indicated 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 and Environmental Reports.

**APR1400 DCD TIER 2****17.3 Quality Assurance Program Description**

Quality Assurance Program Description during the design certification phase of the APR1400 is described in Section 17.5.

The COL applicant is to establish and implement a QA program that is applicable to site-specific design activities during the plant construction and operation phases.

**17.3.1 Combined License Information**

COL 17.3(1) The COL applicant is to establish and implement a QA program that is applicable to site-specific design activities during the plant construction and operation phases.

**APR1400 DCD TIER 2**

Table 1.8-2 (25 of 29)

Item No.	Description
COL 14.2(8)	The COL applicant that references the APR1400 design certification is to identify the specific operator training to be conducted as part of the low-power testing program related to the resolution of TMI Action Plan Item I.G.1, as described in (1) NUREG-0660, "NRC Action Plans Developed as a Result of the TMI-2 Accident," Revision 1, August 1980 and (2) NUREG-0737, "Clarification of TMI Action Plan Requirements."
COL 14.2(9)	The COL applicant is to prepare the pre-operational test of cooling tower and associated auxiliaries, and raw water and service water cooling systems.
COL 14.2(10)	The COL applicant is to develop the test program of personnel monitors and radiation survey instruments.
COL 14.2(11)	The COL applicant is to develop the test procedure of the communication system.
COL 14.3(1)	The COL applicant is to provide the ITAAC for the site-specific portion of the plant systems specified in Subsection 14.3.3.
COL 14.3(2)	The COL applicant is to provide the proposed ITAAC for the facility's emergency planning addressed in Subsection 14.3.2.10.
COL 14.3(3)	The COL applicant is to provide the proposed ITAAC for the facility's physical security hardware addressed in Subsection 14.3.2.12.
COL 14.3(4)	The COL applicant is to provide a DAC closure schedule for implementing the piping DAC.
COL 15.0(1)	The COL applicant is to perform the radiological consequence analysis using site-specific $\chi/Q$ values, unless the $\chi/Q$ values used in the DCD envelop the site-specific short-term or long-term $\chi/Q$ values of the DCD, and to show that the resultant doses are within the guideline values of 10 CFR 50.34 for EAB and LPZ and that of 10 CFR Part 50, Appendix A, GDC 19 for the MCR and TSC.
COL 17.4(1)	The COL applicant is to develop and implement Phases 2 and 3 of the design RAP, including QA requirements. In Phase 2, the plant's site-specific information is to be subjected to the design RAP process, and the site-specific risk-significant SSCs are combined with the APR1400 design risk-significant SSCs into one list for the plant. Phase 2 is to be performed during the COL application phase and updated/maintained during the COL license holder phase. In Phase 3, procurement, fabrication, construction, and test specifications for the SSCs within the scope of the RAP provide reasonable assurance that key assumptions, such as equipment reliability, are realistic and achievable. The QA requirements are implemented during the procurement, fabrication, construction, and pre-operational testing of the SSCs within the scope of the RAP. Phase 3 is to be performed during the COL license holder phase and prior to initial fuel loading. The COL applicant is to propose a method for incorporating the objectives of the reliability assurance program into other programs for design or operational errors that degrade non-safety-related, risk-significant SSCs.
COL 17.3(1)	The COL applicant is to establish and implement a QA program that is applicable to site-specific design activities during the plant construction and operation phases.