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## 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.: 260-8283  
SRP Section: 18 – Human Factors Engineering  
Application Section: 18.6  
Date of RAI Issue: 10/19/2015

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### **Question No. 18-39**

Section 5.4(7), “Review Criteria,” of NUREG-0711 states “the applicant should identify the knowledge and abilities required to perform each task.”

Item 18, “Staff,” in Subsection 4.2.1, “Task Narrative,” of the TA IP discusses entering the knowledge and abilities required to perform the task into the TA database, but with caveats and without details.

Also, Section 4.5.3, “Task Analysis,” of APR1400-K-I-NR-14005-P, “Staffing and Qualifications Implementation Plan,” Revision 0, dated December 2014, states that the staffing and qualifications analysis relies on the TA, including the knowledge and abilities required.

1. Describe how the knowledge and abilities required to perform each task will be identified in the task analysis program element.
2. Revise the documentation as necessary.

### **Response – (Rev. 1)**

The qualification of operators required to perform the task (e.g., reactor operator, non-licensed operator) is entered into the TA database. Any special knowledge or abilities (e.g., chemical analysis for RCS, SGTR secondary radiation sample test) required to perform the task [that are not in the K/A catalog, NUREG-1122](#), are entered into the TA database. Technical report APR1400-E-I-NR-14004-P/NP, Rev.0, “Task Analysis Implementation Plan,” Subsection 4.2.1 will be revised to describe the process to determine special knowledge or abilities required to perform a task.

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**Impact on DCD**

There is no impact on the DCD.

**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**

Technical report APR1400-E-I-NR-14004-NP, Rev.0, "Task Analysis Implementation Plan," Subsection 4.2.1 will be revised, as indicated in the attachment associated with this response.



4.2.2. Human-System Interface Inventory



**7. REFERENCES**

1. APR1400-E-I-NR-14001-P, "Human Factors Engineering Program Plan," Rev.0, KHNP, December 2014.
2. NUREG-0711, "Human Factors Engineering Program Review Model," Rev. 3, U.S. Nuclear Regulatory Commission, November 2012.

← 3. NUREG-1122, "Knowledge and Abilities Catalog for Nuclear Power Plant Operators: Pressurized Water Reactors," Rev. 2, Supp. 1, U.S. Nuclear Regulatory Commission, October 2007.