

## 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.: 352-8205  
 SRP Section: 18 – Human Factors Engineering  
 Application Section: 18.10  
 Date of RAI Issue: 12/22/2015

### **Question No. 18-64**

NUREG-0711, Criterion 11.4.2.2(4), "HED Documentation," states that the applicant should document human engineering discrepancies (HEDs) to identify the human-system interface (HSI), the tasks affected, and the basis for the deficiency (what aspect of the HSI was identified as not meeting task requirements).

Evaluation: Section 4.3.3, "HED Identification," of the HF V&V IP discusses task support verification HEDs and when they will be entered into the issue tracking system for evaluation and resolution. However, no information is provided as to what information is entered into the system for each HED.

Additionally, Section 4.6.1.2, "Human Engineering Discrepancies Entry," of APR1400-E-I-NR-14001-P, Rev. 0, "Human Factors Engineering Program Plan," (HFE PP) discusses HED entry more generically for the Issue Tracking System, however this section also does not provide the necessary detail.

Section 4.5.9.5, "HED Evaluation Documentation," of the V&V IP provides generic information on HED documentation, but does not provide specific information to be used for task support verification HEDs, e.g., the specific HSI and the basis for the HED such as the aspect of the HSI that was identified as not meeting task requirements.

Action: Revise the V&V IP to provide the information specified in Criterion 11.4.2.2(4).

### **Response**

The following information is to be entered into the human engineering discrepancies (HEDs) system:

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Section 4.3.3 of the Human Factors Verification and Validation Implementation Plan will be revised to add the HED information which is to be entered into the system, as indicated in the attachment associated with this response.

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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-14008-NP, Rev.0, "Human Factors Verification and Validation Implementation Plan," Section 4.3.3 will be revised, as indicated in the attachment associated with this response.

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**4.3.3. HED Identification**

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