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May 18, 2016  
Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Attention: Mr. Jeff Ciocco  
Division of New Reactor Licensing

Docket No. 52-046  
MKD/NW-16-0511L

**Subject: Revised and Supplemental Response to RAI 71-7906 for the Questions 14.03.05-1 and 14.03.05-2**

- References:**
- 1) NRC Request for Additional Information 71-7906, dated July 15, 2015
  - 2) KHNP Letter MKD/NW-15-0187L, Response to RAI 71-7906, dated October 8, 2015
  - 3) KHNP Letter MKD/NW-16-0208L, Revised Response to RAI 71-7906 for the Question 14.03.05-9, dated March 9, 2016
  - 4) KHNP Letter MKD/NW-16-0375L, Revised Response to RAI 71-7906 for the Question 14.03.05-11, dated April 16, 2016
  - 5) KHNP Letter MKD/NW-16-0394L, Revised Response to RAI 71-7906 for the Question 14.03.05-12, dated April 22, 2016
  - 6) KHNP Letter MKD/NW-16-0472L, Revised Response to RAI 71-7906 for the Questions 14.03.05-5 and 14.03.05-8, dated May 11, 2016

KHNP is hereby submitting the response to RAI 71-7906, dated July 15, 2015. The revised response addresses Question 14.03.05-1, and the supplemental response addresses Question 14.03.05-2. The revised response of Question 14.03.05-1 includes analysis as well as inspections to ensure that the outputs stated include documentation. The supplemental response of Question 14.03.05-2 adds the description on how communications independence is achieved between redundant portions of safety I&C systems.

Enclosure 1 provides the revised response to RAI 71-7906 for Question 14.03.05-1 (Non-Proprietary). Enclosure 2 provides the supplemental response to RAI 71-7906 for Question 14.03.05-2 (Non-Proprietary).

If additional information or clarification is required, please contact Daegeun Ahn, Director of KHNP Washington DC Center at [ahn.daegeun@khnp.co.kr](mailto:ahn.daegeun@khnp.co.kr) or 703-388-0592.

Sincerely,

Jae-yong Lee  
Project Manager



**KHNP**  
KOREA HYDRO & NUCLEAR POWER CO., LTD

Advanced Reactors Development Laboratory  
Korea Hydro and Nuclear Power Co., Ltd

Enclosures:

1. Revised Response to RAI 71-7906 for Question 14.03.05-1 (Non-Proprietary)
2. Supplemental Response to RAI 71-7906 for Question 14.03.05-2 (Non-Proprietary)

## **Enclosure 1**

Revised Response to RAI 71-7906 for Questions 14.03.05-1

(Non-Proprietary)

May 18, 2016

## **Enclosure 2**

Supplemental Response to RAI 71-7906 for Questions 14.03.05-2

(Non-Proprietary)

May 18, 2016