

## **KHNPDCRAIsPEm Resource**

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**Sent:** Monday, July 06, 2015 12:54 PM  
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**Subject:** APR1400 Design Certification Application RAI 59-7970 (06.04 - Control Room Habitability System)  
**Attachments:** APR1400 DC RAI 59 RPAC 7970.pdf; image001.jpg

KHNP

The attachment contains the subject request for additional information (RAI). This RAI was sent to you in draft form. Your licensing review schedule assumes technically correct and complete responses within 30 days of receipt of RAIs. However, KHNP requests, and we grant, 60 days to respond to this RAI. We may adjust the schedule accordingly.

Please submit your RAI response to the NRC Document Control Desk.

Thank you,

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**Hearing Identifier:** KHNP\_APR1400\_DCD\_RAI\_Public  
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MESSAGE	634	7/6/2015 12:54:26 PM
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# REQUEST FOR ADDITIONAL INFORMATION 59-7970

Issue Date: 07/06/2015

Application Title: APR1400 Design Certification Review – 52-046

Operating Company: Korea Hydro & Nuclear Power Co. Ltd.

Docket No. 52-046

Review Section: 06.04 - Control Room Habitability System

Application Section: 6.4

## QUESTIONS

06.04-1

GDC 19 provides criteria on control room habitability, including dose to operators. The design basis accident (DBA) dose analyses in DCD Chapter 15 were performed, in part, to show compliance with GDC 19 and the results are listed in DCD Table 6.4-2. The DBA dose analyses make assumptions on the control room (CR) heating, ventilation and air conditioning (HVAC) system operation as documented in DCD Tables 15.1.5-12, 15.2.8-3, 15.3.3-3, 15.4.8-4, 15.6.2-4, 15.6.3-5, 15.6.5-13 and 15.7.4-1. Information on the operation of CR HVAC system, including the emergency mode which can be initiated by radiation monitors in the system intake, is discussed on DCD page 6.4-5 and in DCD section 9.4.1.2. Demonstrate how you ensure that the CR HVAC system intake radiation monitor engineered safety feature actuation system – control room emergency ventilation actuation signal (EFSAS-CREVAS) actuation setpoint, provided in DCD Table 7.3-5B, is set so that CR HVAC system operation, including the time of emergency mode initiation, is as assumed in the DBA dose analyses.

