

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Monday, January 11, 2016 10:48 AM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Erin Wisler
Cc: Green, Brian; Junge, Michael; Ward, William; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 360-8452 (18 - Human Factors Engineering)
Attachments: APR1400 DC RAI 360 COLB 8452.pdf

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,

Jeff Ciocco
New Nuclear Reactor Licensing
301.415.6391
jeff.ciocco@nrc.gov



Hearing Identifier: KHNP_APR1400_DCD_RAI_Public
Email Number: 409

Mail Envelope Properties (a1605280e5794cc798d4545875d9f67b)

Subject: APR1400 Design Certification Application RAI 360-8452 (18 - Human Factors Engineering)
Sent Date: 1/11/2016 10:48:14 AM
Received Date: 1/11/2016 10:48:15 AM
From: Ciocco, Jeff
Created By: Jeff.Ciocco@nrc.gov

Recipients:

"Green, Brian" <Brian.Green@nrc.gov>
Tracking Status: None
"Junge, Michael" <Michael.Junge@nrc.gov>
Tracking Status: None
"Ward, William" <William.Ward@nrc.gov>
Tracking Status: None
"Lee, Samuel" <Samuel.Lee@nrc.gov>
Tracking Status: None
"apr1400rai@khnp.co.kr" <apr1400rai@khnp.co.kr>
Tracking Status: None
"KHNPDCDRAIsPEm Resource" <KHNPDCDRAIsPEm.Resource@nrc.gov>
Tracking Status: None
"Harry (Hyun Seung) Chang" <hyunseung.chang@gmail.com>
Tracking Status: None
"Andy Jiyong Oh" <jiyong.oh5@gmail.com>
Tracking Status: None
"Erin Wisler " <erin.wisler@aecom.com>
Tracking Status: None

Post Office: HQPWMSMRS07.nrc.gov

Files	Size	Date & Time
MESSAGE	608	1/11/2016 10:48:15 AM
APR1400 DC RAI 360 COLB 8452.pdf		88651
image001.jpg	5040	

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

REQUEST FOR ADDITIONAL INFORMATION 360-8452

Issue Date: 01/11/2016
Application Title: APR1400 Design Certification Review – 52-046
Operating Company: Korea Hydro & Nuclear Power Co. Ltd.
Docket No. 52-046
Review Section: 18 - Human Factors Engineering
Application Section:

QUESTIONS

18-90

The November 25, 2015 response to RAI 196-8164 (ADAMS Accession No. ML15329A386) Question No. 18-24 provides additional information about how the applicant intends to issue, review, and store design documents using the Review and Comment System. It also describes the independence of the Review and Comment System from the ITS (Information Tracking System) and the CAP (Corrective Action Program). While this response is helpful for understanding the way each system is used, it is still unclear how information enters and flows through the three systems. Additional information is needed to address NUREG-0711 Section 2.4.3 Criterion 2.

The Review and Comment System, ITS, and CAP are similar in the fact that they are all communication systems used to document, review, and resolve issues with the design. However, it is unclear how designers, reviewers, and other staff are to know which system to use for any particular issue. Errors made by designers in selecting a the correct system may render the processes ineffective or may cause important issues to go unnoticed by those that have the authority, skills, or responsibility to correct them.

Please clarify how KHNP intends to ensure that issues are entered into the appropriate system. Include any specific measurable criteria that identify when each of these process tools is appropriate as opposed to the other systems. Alternatively, a procedure may be submitted on the docket that addresses this. Also, describe any safeguards that are in place to ensure that entries that are mistakenly entered into the wrong system will be identified and moved to the correct system (or otherwise addressed). You may reference docketed material as needed (for instance, there is some information regarding making entries in the ITS and safeguards against preventing unauthorized personnel from making new entries in section 4.6 of the HFE program plan implementation plan.)



U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment