

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Thursday, August 13, 2015 10:57 AM
To: KHNPDCDRAIsPEm Resource
Subject: FW: APR1400 Design Certification Application RAI 132-8088 (11.5-Process and Effluent Radiological Monitoring Inst. & Sampling Sys.)
Attachments: image001.jpg; APR1400 DC RAI 132 RPAC 8088.pdf

From: Ward, William
Sent: Friday, August 07, 2015 3:59 PM
To: 'apr1400rai@khnp.co.kr' <apr1400rai@khnp.co.kr>; KHNPDCDRAIsPEm Resource <KHNPDCDRAIsPEm.Resource@nrc.gov>; 'Chang, Harry' <hyunseung.chang@gmail.com>; 'Yunho Kim (yshh8226@gmail.com)' <yshh8226@gmail.com>; jiyong.oh5@gmail.com; daegeun.ahn@gmail.com; Tyree, Christopher (christopher.tyree@aecom.com) <christopher.tyree@aecom.com>
Cc: Ciocco, Jeff <Jeff.Ciocco@nrc.gov>; Lee, Samuel <Samuel.Lee@nrc.gov>; McCoppin, Michael <Michael.McCoppin@nrc.gov>; Olson, Bruce <Bruce.Olson@nrc.gov>; Williams, Stephen <Stephen.Williams@nrc.gov>
Subject: APR1400 Design Certification Application RAI 132-8088 (11.5-Process and Effluent Radiological Monitoring Inst. & Sampling Sys.)

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, 90 days to respond to the RAI question. We may adjust the schedule accordingly.

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

Thank you,

William R. Ward, P.E.
Senior Project Manager
U.S. Nuclear Regulatory Commission
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Hearing Identifier: KHNP_APR1400_DCD_RAI_Public
Email Number: 186

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Subject: FW: APR1400 Design Certification Application RAI 132-8088 (11.5-Process and Effluent Radiological Monitoring Inst. & Sampling Sys.)
Sent Date: 8/13/2015 10:56:57 AM
Received Date: 8/13/2015 10:56:58 AM
From: Ciocco, Jeff

Created By: Jeff.Ciocco@nrc.gov

Recipients:
"KHNPDCDRAIsPEm Resource" <KHNPDCDRAIsPEm.Resource@nrc.gov>
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MESSAGE	1532	8/13/2015 10:56:58 AM
image001.jpg	4205	
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Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:



REQUEST FOR ADDITIONAL INFORMATION 132-8088

Issue Date: 08/07/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 11.05 - Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems

Application Section:

QUESTIONS

11.05-2

11.5 - SRP 11.5.2.2, Description of the PERMSS
Liquid PERMSS

Information contained in DCD section 11.5.2.3 does not include the level of detail SRP section 11.5 details in the description for the PERMSS. Inspection of Tier 1 Section 2.7.6.4 the staff observes that there are indications not described in Section 11.5 that are seen in Tier 1 Table 2.7.6.4-1. This Tier 1 table has a column to describe if there is a Display/Alarm in the MCR/ or RSR indication. Each detector in this table has a "Yes" marked down for all three indications, however DCD Section 11.5 does not fully include a description of all indications in either the text or DCD Tables 11.5-2.

As a result the staff requests that the applicant provide the following complete information:

- Each monitor should contain a description of its functions and safety related requirements in meeting redundancy or independence (where applicable)
- Each monitor should contain a discussion on radiation detection ranges
- Each monitor should contain a discussion on the process configuration of the detector
- Each monitor should contain a discussion on its specific location
- Discussions of applicable regulatory guides should be used
- Provide a discussion concerning the alarms and interlocks established for each detector.
- Each monitor should contain information on the associated sampling stations, if applicable, especially effluent monitors.
- Provisions for purging of sample lines and minimizing process and effluent volumes should be indicated
- Each monitor should contain a discussion of the safety classification associated with the monitor
- There should be a discussion on the calibration and quality assurance for each detector

Please address these items and provide a mark up for the proposed DCD changes.