

## **KHNPDCDRAIsPEm Resource**

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**From:** Ciocco, Jeff  
**Sent:** Wednesday, September 23, 2015 2:33 PM  
**To:** apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Christopher Tyree  
**Cc:** Williams, Stephen; McCoppin, Michael; Olson, Bruce; Lee, Samuel  
**Subject:** APR1400 Design Certification Application RAI 222-8203 (11.05 - Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems)  
**Attachments:** APR1400 DC RAI 222 RPAC 8203.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,

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**Hearing Identifier:** KHNP\_APR1400\_DCD\_RAI\_Public  
**Email Number:** 270

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**Subject:** APR1400 Design Certification Application RAI 222-8203 (11.05 - Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems)  
**Sent Date:** 9/23/2015 2:32:52 PM  
**Received Date:** 9/23/2015 2:32:54 PM  
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MESSAGE	608	9/23/2015 2:32:54 PM
APR1400 DC RAI 222 RPAC 8203.pdf		78776
image001.jpg	5040	

**Options**

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

## REQUEST FOR ADDITIONAL INFORMATION 222-8203

Issue Date: 09/23/2015

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: 11.5

### QUESTIONS

#### 11.05-3

Because the reactor coolant system (RCS) is a safety-related system, steam generator (SG) tube integrity is a safety-related issue. 10 CFR 52.47(b)(1) requires that a DC application contain the proposed ITAAC that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria met, that a plant that incorporates the design certification is built and will operate in accordance with the design certification and the provisions of the Atomic Energy Act, and NRC regulations. The applicant has not provided adequate Tier 1 ITAAC information to verify the compliance with the design criteria.

The ITAAC should address the sensitivity, response time, and alarm limit for the SG Tube leakage detection instrumentation. The staff requests the applicant to provide ITAAC for this system in the DCD Tier 1.

Please address this item and provide a markup for the proposed DCD changes.



**U.S.NRC**

United States Nuclear Regulatory Commission

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