

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Monday, February 01, 2016 1:15 PM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Christopher Tyree
Cc: Sastre, Eduardo; Mitchell, Matthew; Wunder, George; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 392-8464 (09.03.02 - Process and Post-Accident Sampling Systems)
Attachments: APR1400 DC RAI 392 MCB 8464.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, 45 days to respond to the RAI questions. 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: 440

Mail Envelope Properties (4cc866e24f6043e898c231fc8a40adb7)

Subject: APR1400 Design Certification Application RAI 392-8464 (09.03.02 - Process and Post-Accident Sampling Systems)
Sent Date: 2/1/2016 1:14:40 PM
Received Date: 2/1/2016 1:14:41 PM
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Files	Size	Date & Time
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APR1400 DC RAI 392 MCB 8464.pdf		83225
image001.jpg	5040	

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Priority: Standard
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REQUEST FOR ADDITIONAL INFORMATION 392-8464

Issue Date: 02/01/2016
Application Title: APR1400 Design Certification Review – 52-046
Operating Company: Korea Hydro & Nuclear Power Co. Ltd.
Docket No. 52-046
Review Section: 09.03.02 - Process and Post-Accident Sampling Systems
Application Section: 9.3.2

QUESTIONS

09.03.02-1

To satisfy the requirements of GDC 60 and 64, RG 1.21 recommends prompt analysis to minimize decay of radionuclides (C.8). Also, NUREG-0737 recommends prompt sampling under accident conditions [p. II.B.3.1-2, note (1)]. In addition, GDC 14 requires strict chemistry controls to assure the integrity of the RCPB. Some of these controls require immediate action if limits are violated, so it is important to discover such violations promptly. Thus, SRP 9.3.2 recommends a review of operational procedures to verify the capability to promptly obtain samples. The PSS has a variety of sampling points and expected conditions, but the DCD makes no mention of processing time at all.

Please provide estimates for the time needed to obtain, cool, and prepare samples, and to perform the sample analysis. There are a variety of sample points, and processing may vary for individual points.



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