

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Tuesday, April 19, 2016 7:29 AM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Jung-ho Kim (jhokim082@gmail.com); Andy Jiyong Oh; Christopher Tyree
Cc: Nolan, Ryan; Dias, Antonio; Wunder, George; Williams, Donna
Subject: APR1400 Design Certification Application RAI 464-8575 (10.03 - Main Steam Supply System)
Attachments: APR1400 DC RAI 464 SPSB 8575.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 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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Subject: APR1400 Design Certification Application RAI 464-8575 (10.03 - Main Steam Supply System)
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REQUEST FOR ADDITIONAL INFORMATION 464-8575

Issue Date: 04/19/2016

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 10.03 - Main Steam Supply System

Application Section: 10.3

QUESTIONS

10.03-6

Conformance to GDC 4, as related to environmental and dynamic effects, requires that the safety-related portions of the main steam supply system (MSSS) design adequately consider water (steam) hammer and relief valve discharge loads to assure that system safety functions can be performed and assures that operating and maintenance procedures include adequate precautions to prevent water (steam) hammer and relief valve discharge loads.

On October 28, 2015, KHNP provided its response to RAI 8053, Question 10.03-1, related to the development of procedures to address water (steam) hammer. The staff reviewed such response and finds it to be unacceptable. Specifically, RAI 8053, Question 10.03-1 requested the applicant to list the items to be incorporated into operating and maintenance procedures consistent with NUREG-0927. As a result, the applicant removed existing text from COL item 10.3(1), and did not include the requested information.

This supplemental RAI requests the applicant to include in DCD Tier 2, Section 10.3.2.3.5, the complete list of items to be incorporated into operating and maintenance procedures necessary to address water (steam) hammer. The type of information and level of detail needed for the staff to complete its review is similar to the information already included in DCD Tier 2, Section 10.4.7.6.

