

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Tuesday, April 19, 2016 7:17 AM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Jung-ho Kim (jhokim082@gmail.com); Andy Jiyong Oh; Christopher Tyree
Cc: Vettori, Robert; Dias, Antonio; Umana, Jessica; Williams, Donna
Subject: APR1400 Design Certification Application RAI 462-8571 (09.02.02 - Reactor Auxiliary Cooling Water Systems)
Attachments: APR1400 DC RAI 462 SPSB 8571.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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REQUEST FOR ADDITIONAL INFORMATION 462-8571

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: 09.02.02 - Reactor Auxiliary Cooling Water Systems
Application Section: 9.2.8

QUESTIONS

09.02.02-17

This is a supplemental question To RAI 8307 question 09.02.02-2

1. In its response to RAI 8307 question 09.02.02-2 the applicant stated:

DCD Tier 2, COL item 9.2(35) will be revised as indicated in the attachment to clarify what is required of the COL applicant.

The staff reviewed the DCD markup provided in the RAI response and finds that COL item 9.2(35) is deleted; therefore there is no clarification of what is required by a COL applicant.

2. In its response to RAI 8307 question 09.02.02-2 the applicant stated:

The COL applicant is to confirm that there are no departures and shall meet the interface requirements (i.e., cooling duties and temperature requirements, piping and control interfaces) as defined in the conceptual design.

The staff reviewed the DCD markup provided in the RAI response and finds that there is no COL item provided.

3. In its response to RAI 8307 question 09.02.02-2 the applicant stated:

KHNP also confirms that the TGBCCW is part of the design being certified, and that conceptual design information is presented in the DCD as follows:

- System design and operation description in DCD Subsection 9.2.8
- TGBCCW System component design parameters in Table 9.2.8-1, and
- TGBCCW flow diagrams in DCD Figure 9.2.8-1

The staff reviewed the DCD markups for Sections 9.2.8, and 9.2.9; Figures 9.2.8-1 and 9.2.9-1, that were provided in the RAI response and finds that the only component regarded as conceptual design are the three 50 percent heat exchangers. However in the markup provided for Table 9.2.8-1, the staff finds:

- That portions of the Turbine Generator Building Closed Cooling Water Pump requirements are also included as a conceptual design.
- That portions of the Turbine Generator Building Closed Cooling Water Heat Exchanger are not included in the conceptual design

The applicant is requested to reconcile the noted discrepancies.

