

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Monday, November 28, 2016 1:49 PM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Andy Jiyong Oh; Jungho Kim (jhokim082@gmail.com); Chris(AECOM)
Cc: Stubbs, Angelo; Dias, Antonio; Wunder, George; McCoppin, Michael
Subject: APR1400 Design Certification Application RAI 531-8715 (10.04.09 - Auxiliary Feedwater System (PWR))
Attachments: APR1400 DC RAI 531 SPSB 8715.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 531-8715

Issue Date: 11/28/2016

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 10.04.09 - Auxiliary Feedwater System (PWR)

Application Section: 10.04.09

QUESTIONS

10.04.09-7

10 CFR 50.59(a) requires that information provided to the NRC by applicants for a license be complete and accurate in all material respects. The staff has found inconsistencies in the pipe size shown in DCD Figure 10.4.9-1 for the auxiliary feedwater pump suction lines. Specifically, the line leaving tanks TK10A and TK10B, on sheet 1 of Figure 10.4.9, are shown as 12 inches in diameter. The line from tank TK10A is divided into two 6-inch diameter lines which supply water to AFW pumps A and C. The line from tank TK10B is divided into two 8-inch diameter lines which supply water to AFW pumps B and D. These four suction lines (supplying water to pumps A through D) are shown on sheet 1 of Figure 10.4.9-1 and continued onto sheet 2 of Figure 10.4.9-1; however, on sheet 2, these 4 lines are shown as 10-inch diameter lines.

The applicant is requested to:

- (a) Reconcile the above noted discrepancies regarding the line size of the piping that supplies the AFW pumps with water from the AFWSTs and eliminate the inconsistencies in sheet 1 and 2 of Figure 10.4.9-1.
- (b) If the line sizes for the two AFW division are meant to be different, provide a discussion of why different line sizes are used for the different AFW divisions since the flow requirements for both divisions are the same, and provide the reason both line sizes are acceptable in the design.

