

KHNPDCDRAIsPEm Resource

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Sent: Friday, December 11, 2015 7:46 PM
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Cc: Lee, Samuel; Ciocco, Jeff; Umana, Jessica; Segala, John; Travis, Boyce
Subject: APR1400 Design Certification Application RAI 331-8419 (6.2.1.3 - Mass and Energy Release Analysis for Postulated LOCAs)
Attachments: APR1400 DC RAI 331 SCVB 8419.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.

Please submit your RAI response to the NRC Document Control Desk.

Thank you,

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REQUEST FOR ADDITIONAL INFORMATION 331-8419

Issue Date: 12/11/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 06.02.01.03 - Mass and Energy Release Analysis for Postulated Loss-of-Coolant
Accidents (LOCAs)

Application Section: 16 (Technical Specifications)

QUESTIONS

06.02.01.03-4

10 CFR 52.47(a)(11) states that a design certification must contain proposed technical specifications prepared in accordance with 50.36. 10 CFR 50.36(a)(3) states, in part, that technical specifications must contain surveillance requirements to assure that necessary quality of systems and components is maintained and the facility operates within limits.

Standard technical specifications (TS) for CE plants (NUREG-1432) contain a surveillance requirement (SR) to verify that each ECCS pump's developed head at the test flow point is greater than or equal to the required developed head (3.5.2.4). Although the APR1400 TS for the safety injection system provide SR for the differential pressure developed by the pump at minimum flow rate (3.5.2.4) and for the design flow rate at design pressure (3.5.2.5), no SR is provided for the long term safety injection flow, which is higher than the flow at the differential pressure specified in SR 3.5.2.5, per DCD Tier 1 Table 6.3.2-1. Provide either a SR for the long term flow to be provided by the safety injection pumps, or enhance an existing SR to develop the pump curve (which would include the expected long term flow condition) for the safety injection pumps.