

KHNPDCDRAIsPEm Resource

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Sent: Sunday, September 11, 2016 5:28 PM
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Cc: Ward, William; Ciocco, Jeff; Umana, Jessica; Lupold, Timothy; Strnisha, James
Subject: APR1400 Design Certification Application RAI 519-8687 [6.2 BTP-Minimum Containment Pressure Model for PWR ECCS Performance Evaluation)
Attachments: APR1400 DC RAI 519 MEB 8687.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 519-8687

Issue Date: 09/11/2016

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 06-02 Branch Technical Position - Minimum Containment Pressure Model for PWR

ECCS Performance Evaluation

Application Section: 6.2.2

QUESTIONS

06-1

NRC regulations in 10 CFR 52.47, "Contents of Applications," require that the application must contain a description of the system, structures, and components of the facility and the description shall be sufficient to understand the system design. In order for this requirement to be met, the staff is requesting additional information regarding the mesh size of the holdup volume tank (HVT) trash rack.

Technical Report APR1400-E-N-NR-14001-P, Rev. 0, "Design Features to Address GSI-191," Section 2.3 states that the HVT trash racks prevent debris particles larger than 1.5 inch from entering the HVT. However, Technical Report APR1400-E-N-NR-14002-NP, Rev.0, "IRWST Sump Strainer and Trash Rack Structural Analysis," Section 2.1 states that debris greater than 4 inch diameter is prevented from entering the HVT by a vertical trash rack and Section 2.2 states that the trash rack is designed to prevent debris larger than 4 inch. These two technical reports appear to inconsistently describe the HVT trash rack mesh size as both 1.5 inch and 4 inch. The applicant is requested to specify the HVT trash rack mesh size and to revise the technical reports as applicable to consistently describe the HVT trash rack mesh size.