

KHNPDCRAIsPEm Resource

From: Ciocco, Jeff
Sent: Thursday, October 22, 2015 9:53 AM
To: apr1400rai@khnp.co.kr; KHNPDCRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Young H. In (yhin@KHNP.co.kr); James Ross
Cc: Phan, Hanh; Mrowca, Lynn; Steckel, James; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 270-7894 (19 - Probabilistic Risk Assessment and Severe Accident Evaluation)
Attachments: APR1400 DC RAI 270 SPRA 7894.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, 90 days to respond to the RAI question. We may adjust the schedule accordingly.

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

Thank you,

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Hearing Identifier: KHNP_APR1400_DCD_RAI_Public
Email Number: 318

Mail Envelope Properties (353b8c23c5ae4d3abb89dc227b7db7b7)

Subject: APR1400 Design Certification Application RAI 270-7894 (19 - Probabilistic Risk Assessment and Severe Accident Evaluation)
Sent Date: 10/22/2015 9:53:27 AM
Received Date: 10/22/2015 9:53:32 AM
From: Ciocco, Jeff

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Files	Size	Date & Time
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image001.jpg	5040	

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REQUEST FOR ADDITIONAL INFORMATION 270-7894

Issue Date: 10/22/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation

Application Section:

QUESTIONS

19-14

10 CFR 52.47(a)(27) states that a DC application must contain an FSAR that includes a description of the design-specific PRA and its results. In addition, SRP Chapter 19, Revision 3 (Draft), Section III.

“REVIEW PROCEDURES,” Item 1A under Subsection “Design-Specific PRA” states that “The applicant’s analyses should be comprehensive in scope and address all applicable internal and external events and all plant operating modes.”

Therefore, in order for the staff to reach a reasonable finding that the scope, level of detail, and technical adequacy of the design-specific PRA are appropriate, please describe the quantitative or qualitative, as applicable, risk assessment associated with the applicable external hazards (e.g., high winds, tornados, external flooding), provide the results of the probabilistic evaluation of these hazards, and include the discussions in the DCD.



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United States Nuclear Regulatory Commission

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