

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Wednesday, July 15, 2015 2:22 PM
To: apr1400rai@khnp.co.kr; Harry (Hyun Seung) Chang; Yunho Kim; Steven Mannon; KHNPDCDRAIsPEm Resource
Cc: Nolan, Ryan; Dias, Antonio; Betancourt, Luis; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 74-8060 (03.05.01.04 - Missiles Generated by Tornadoes and Extreme Winds)
Attachments: APR1400 DC RAI 74 SPSB 8060.pdf; image001.jpg

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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Hearing Identifier: KHNP_APR1400_DCD_RAI_Public
Email Number: 83

Mail Envelope Properties (4234f91d8c354b4ab7110a1464c40b1c)

Subject: APR1400 Design Certification Application RAI 74-8060 (03.05.01.04 - Missiles
Generated by Tornadoes and Extreme Winds)
Sent Date: 7/15/2015 2:21:39 PM
Received Date: 7/15/2015 2:21:41 PM
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Files	Size	Date & Time
MESSAGE	520	7/15/2015 2:21:41 PM
APR1400 DC RAI 74 SPSB 8060.pdf		87380
image001.jpg	5040	

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Priority: Standard
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REQUEST FOR ADDITIONAL INFORMATION 74-8060

Issue Date: 07/15/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 03.05.01.04 - Missiles Generated by Tornadoes and Extreme Winds

Application Section:

QUESTIONS

03.05.01.04-1

GDC 2 requires that SSCs important to safety to be protected against natural phenomena, including the effects from tornados. In addition, GDC 4 requires that SSCs important to safety to be appropriately protected against the effects of missiles that may result from events and conditions outside the nuclear power unit.

As identified in DCD Tier 2, Table 3.5-2, "Design Basis Missiles," the APR 1400 design basis tornado-borne automobile missile is assumed to impact at an altitude of less than 10.06 m (33 ft) above grade level. This is consistent with the guidance of RG 1.76, however, for sites with surrounding ground elevations higher than plant grade (e.g. elevated parking lot) a COL applicant that references the APR 1400 design certification should confirm that automobile missiles cannot be generated within a 0.5 mile radius of safety-related SSCs that would lead to impact higher than 10.06 m (33 ft) above plant grade.

The applicant is requested to include in the DCD a COL information item that requires a COL applicant who references the APR 1400 design certification to confirm that automobile missiles cannot be generated within a 0.5 mile radius of safety-related SSCs that would lead to impact higher than 10.06 m (33 ft) above plant grade.

