

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Monday, April 13, 2015 1:04 PM
To: apr1400rai@khnp.co.kr; Chang, Harry (hyunseung.chang@gmail.com); Yunho Kim (yshh8226@gmail.com); KHNPDCDRAIsPEm Resource
Cc: Karas, Rebecca; Rodriguez, Ricardo; Lee, Samuel; Devlin-Gill, Stephanie
Subject: APR1400 Design Certification Application RAI 1-7827 (2.5.4)
Attachments: APR1400 DC RAI 1 RGS1 7827.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,

Jeff Ciocco
New Nuclear Reactor Licensing
301.415.6391
jeff.ciocco@nrc.gov



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From: Ciocco, Jeff

Created By: Jeff.Ciocco@nrc.gov

Recipients:

"Karas, Rebecca" <Rebecca.Karas@nrc.gov>
Tracking Status: None
"Rodriguez, Ricardo" <Ricardo.Rodriguez@nrc.gov>
Tracking Status: None
"Lee, Samuel" <Samuel.Lee@nrc.gov>
Tracking Status: None
"Devlin-Gill, Stephanie" <Stephanie.Devlin-Gill@nrc.gov>
Tracking Status: None
"apr1400rai@khnp.co.kr" <apr1400rai@khnp.co.kr>
Tracking Status: None
"Chang, Harry (hyunseung.chang@gmail.com)" <hyunseung.chang@gmail.com>
Tracking Status: None
"Yunho Kim (yshh8226@gmail.com)" <yshh8226@gmail.com>
Tracking Status: None
"KHNPDCDRAIsPEm Resource" <KHNPDCDRAIsPEm.Resource@nrc.gov>
Tracking Status: None

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REQUEST FOR ADDITIONAL INFORMATION 1-7827

Issue Date: 04/13/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 02.05.04 - Stability of Subsurface Materials and Foundations

Application Section: SRP 2.5.4

QUESTIONS

02.05.04-1

In accordance with 10 CFR Parts 50, 52.47 and 100 and SRP 2.5.4, regarding APR 1400 DCD Subsections 2.5.4.2 and 2.5.4.3, please provide or properly cross-reference the soil or rock uniformity requirements needed for the foundation of Safety Related Structures. Uniformity requirements as it pertains to subgrade stiffness, shear wave velocity and other static and dynamic properties for the APR 1400 foundation need to be included in appropriate sections of 2.5.4. Please propose changes and/or updates to appropriate sections in 2.5.4 and Table 2.01 with this information.

02.05.04-2

In accordance with 10 CFR Parts 50 and 100 and SRP 2.5.4, regarding APR 1400 DCD Subsection 2.5.4.10 and Table 2.0-1, please cross-reference or provide more details on the determination of the dynamic bearing capacity. Information related to the design load combination considered (e.g. shutdown earthquake loads) and Factor of Safety is absent from the discussion in 2.5.4.10. Please propose appropriate changes to the section and updates to Table 2.0-1.

