

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Tuesday, September 01, 2015 5:36 AM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Steven Mannon
Cc: Talbot, Frank; Kendzia, Thomas; Olson, Bruce; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 187-8101 (14.02 - Initial Plant Test Program - Design Certification and New License Applicants)
Attachments: APR1400 DC RAI 187 QVIB 8101.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 187-8101

Issue Date: 09/01/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants

Application Section: DCD Table 1.9-1 and Section 14.2

QUESTIONS

14.02-10

This question is also related to Question 27217 in RAI 7867 in the NRC eRAI system. The question was updated to add three hot functional tests needed to comply with RG 1.20.

In DCD Table 1.9.1, "APR1400 Conformance with NRC Regulatory Guides," the table contains the following information related to NRC RG 1.20 but the information is incomplete:

NRC Regulatory Guides	Revision/ Issue Date	Conformance or Summary Description of Deviation	DCD Tier 2 Section
1.20 Comprehensive Vibration Assessment Program for Reactor Internals During Preoperational and Initial Startup Testing	Rev. 3 03/2007	The APR1400 conforms with this NRC RG.	11.5, 12.3.4, TS Part 3, 5.0

For example, the NRC staff determined that this reference to RG 1.20 does not contain any references to APR1400 DCD Subsections 14.2.12.1.41, "Internal Vibration Monitoring System Test," 14.2.12.1.42, "Loose Parts Monitoring System Test," 14.2.12.1.43, "Acoustic Leak Monitoring System Test," 14.2.12.2.2, "Loose Parts Monitoring System," 14.2.12.2.7, "Post-Core Reactor Coolant System Leak Rate Measurement," 14.2.12.2.10, "Post-Core Acoustic Leak Monitoring System Test," and 14.2.12.4.18, "Baseline Nuclear Steam Supply System Integrity Test." These preoperational tests, post core hot functional tests and the power ascension test may contain test objectives, prerequisites, methods, and acceptance criteria related to compliance with RG 1.20.

Please add references to the appropriate DCD Section 14.2 test abstracts in DCD Table 1.9.1 and/or Subsection 14.2.7 related to APR1400 compliance with RG 1.20.



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