

KHNPDCRAIsPEm Resource

From: Ciocco, Jeff
Sent: Tuesday, September 08, 2015 1:03 PM
To: apr1400rai@khnp.co.kr; KHNPDCRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Steven Mannon
Cc: Otto, Ngola; Wunder, George; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 202-8206 (08.01 - Electric Power - Introduction)
Attachments: image001.jpg; APR1400 DC RAI 202 EEB 8206.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,

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:

"Otto, Ngola" <Ngola.Otto@nrc.gov>
Tracking Status: None
"Wunder, George" <George.Wunder@nrc.gov>
Tracking Status: None
"Lee, Samuel" <Samuel.Lee@nrc.gov>
Tracking Status: None
"apr1400rai@khnp.co.kr" <apr1400rai@khnp.co.kr>
Tracking Status: None
"KHNPDCDRAIsPEM Resource" <KHNPDCDRAIsPEM.Resource@nrc.gov>
Tracking Status: None
"Harry (Hyun Seung) Chang" <hyunseung.chang@gmail.com>
Tracking Status: None
"Andy Jiyong Oh" <jiyong.oh5@gmail.com>
Tracking Status: None
"Steven Mannon" <steven.mannon@aecom.com>
Tracking Status: None

Post Office: R4PWMSMRS03.nrc.gov

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REQUEST FOR ADDITIONAL INFORMATION 202-8206

Issue Date: 09/08/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 08.01 - Electric Power - Introduction

Application Section: SRP 8.01

QUESTIONS

08.01-12

APR1400 DCD Figure 8.1-1, "Electric Power System Single-Line Diagram," identifies "DIMMY" breakers in the Class 1E 480V load center (LC) 1A and LC 2. However, DCD Figure 8.3.1-1, "Onsite AC Electrical Power System," identifies "DUMMY" circuit breakers. DCD section 8.3.1.1.2, "Class 1E Onsite AC Power System," also states in part that in case of a loss of power from LC01A, LC02 is manually transferred to the train B load center (LC01B) through a dummy breaker. Please clarify the discrepancy between Figures 8.1-1, Figure 8.3.1-1 and section 8.3.1.1.2 related to the type of breaker used.

08.01-13

RG 1.210 and RG 1.213 state in part that Title 10, Part 50, "Domestic Licensing of Production and Utilization Facilities," of the *Code of Federal Regulations* (10 CFR Part 50) requires that structures, systems, and components that are important to safety in a nuclear power plant must be designed to accommodate the effects of environmental conditions (i.e., remain functional under postulated design-basis events).

APR1400 DCD section 8.1.3.3, "General Design Criteria, NRC Regulatory Guides, Branch Technical Positions, Generic Letters, and Industry Standards," lists regulatory guides (RGs) applicable to the APR1400 design. Please explain why the following RGs are not included in those listed in the section:

RG 1.210, "Qualification of Safety-Related Battery Chargers and Inverters"

RG 1.213, "Qualification of Safety-Related Motor Control Centers"