

## KHNPDCDRAIsPEm Resource

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**From:** Ciocco, Jeff  
**Sent:** Wednesday, September 09, 2015 6:43 AM  
**To:** apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Steven Mannon  
**Cc:** Mathew, Roy; Foli, Adakou; Wunder, George; Lee, Samuel  
**Subject:** APR1400 Design Certification Application RAI 206-8216 (08.04 - Station Blackout)  
**Attachments:** APR1400 DC RAI 206 EEB 8216.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  
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**Sent Date:** 9/9/2015 6:42:30 AM  
**Received Date:** 9/9/2015 6:42:32 AM  
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MESSAGE	520	9/9/2015 6:42:32 AM
APR1400 DC RAI 206 EEB 8216.pdf		86418
image001.jpg	5040	

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**Priority:** Standard  
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**Reply Requested:** No  
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## REQUEST FOR ADDITIONAL INFORMATION 206-8216

Issue Date: 09/09/2015  
Application Title: APR1400 Design Certification Review – 52-046  
Operating Company: Korea Hydro & Nuclear Power Co. Ltd.  
Docket No. 52-046  
Review Section: 08.04 - Station Blackout  
Application Section:

### QUESTIONS

08.04-10

Section 8.4.1.3 of the DCD Tier 2 states: "The AAC GTG will be manually connected to the designated Class 1E 4.16 kV switchgears (train A or train B) by the operator within 10 minutes from the beginning of the SBO event." Section 2.6.6 of the DCD Tier 1 states: "The AAC source is started and connected manually to the Class 1E train A or train B within 10 minutes in the event of SBO."

- a- NUREG NUREG-0800, Section 8.4.III.3 states that "'available within 10 minutes of the onset of SBO' means that circuit breakers necessary to bring power to safe-shutdown buses can be actuated in the control room within that period". Please confirm that the circuit breakers necessary to bring power from the AAC GTG to the safe-shutdown buses can be actuated in the control room within 10 minutes of the onset of the SBO.
- b- Please modify the Tier 1 statement, "within 10 minutes in the event of SBO" to indicate that the AAC is connected within 10 minutes from the onset of the SBO.

