

## **KHNPDCDRAIsPEm Resource**

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**From:** Ciocco, Jeff  
**Sent:** Monday, November 02, 2015 7:30 AM  
**To:** apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Steven Mannon  
**Cc:** Ray, Sheila; Zimmerman, Jacob; Wunder, George; Lee, Samuel  
**Subject:** APR1400 Design Certification Application RAI 280-8220 (14.02 - Initial Plant Test Program - Design Certification and New License Applicants)  
**Attachments:** APR1400 DC RAI 280 EEB 8220.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](mailto:jeff.ciocco@nrc.gov)



**Hearing Identifier:** KHNP\_APR1400\_DCD\_RAI\_Public  
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**Subject:** APR1400 Design Certification Application RAI 280-8220 (14.02 - Initial Plant Test Program - Design Certification and New License Applicants)  
**Sent Date:** 11/2/2015 7:29:44 AM  
**Received Date:** 11/2/2015 7:29:45 AM  
**From:** Ciocco, Jeff

**Created By:** Jeff.Ciocco@nrc.gov

**Recipients:**

"Ray, Sheila" <Sheila.Ray@nrc.gov>  
Tracking Status: None  
"Zimmerman, Jacob" <Jacob.Zimmerman@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:** HQPWMSMRS07.nrc.gov

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MESSAGE	496	11/2/2015 7:29:45 AM
APR1400 DC RAI 280 EEB 8220.pdf		85207
image001.jpg	5040	

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

## REQUEST FOR ADDITIONAL INFORMATION 280-8220

Issue Date: 11/02/2015

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:

### QUESTIONS

14.02-44

GDC 17 requires that onsite and offsite power systems provide sufficient capacity and capability and furthermore, GDC 18 requires the testing of electric power systems.

DCD Tier 2 Section 14.2.12.1.80 discusses the normal lighting system test. Please discuss how this test verifies that required electrical power supplies and control circuits are available or provide adequate justification that it is not needed. Please confirm that when testing normal lighting systems that other lighting systems will be de-energized in the rooms.

14.02-45

GDC 17 requires that onsite and offsite power systems provide sufficient capacity and capability and furthermore, GDC 18 requires the testing of electric power systems.

DCD Tier 2 Section 14.2.12.1.81 discusses the emergency lighting system test. Please confirm that the ability of the emergency lighting system is verified by simulating a loss of the normal lighting and observing that the emergency system automatically activates. Please discuss how this test verifies that required electrical power supplies and control circuits are available or provide adequate justification that it is not needed.



**U.S.NRC**

United States Nuclear Regulatory Commission

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