

## KHNPDCDRAIsPEm Resource

---

**From:** Ciocco, Jeff  
**Sent:** Tuesday, September 01, 2015 2:12 PM  
**To:** apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Harry (Hyun Seung) Chang; Andy Jiyong Oh; Steven Mannon  
**Cc:** Williams, Stephen; McCoppin, Michael; Olson, Bruce; Lee, Samuel  
**Subject:** APR1400 Design Certification Application RAI 195-8182 (14.02 - Initial Plant Test Program - Design Certification and New License Applicants)  
**Attachments:** APR1400 DC RAI 195 RPAC 8182.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](mailto:jeff.ciocco@nrc.gov)



**Hearing Identifier:** KHNP\_APR1400\_DCD\_RAI\_Public  
**Email Number:** 245

**Mail Envelope Properties** (e8ba29f1a4944bcda9c97b7c8f7a8701)

**Subject:** APR1400 Design Certification Application RAI 195-8182 (14.02 - Initial Plant Test Program - Design Certification and New License Applicants)  
**Sent Date:** 9/1/2015 2:11:31 PM  
**Received Date:** 9/1/2015 2:11:33 PM  
**From:** Ciocco, Jeff

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

**Recipients:**

"Williams, Stephen" <Stephen.Williams@nrc.gov>  
Tracking Status: None  
"McCoppin, Michael" <Michael.McCoppin@nrc.gov>  
Tracking Status: None  
"Olson, Bruce" <Bruce.Olson@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:** HQPWMSMRS08.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	520	9/1/2015 2:11:33 PM
APR1400 DC RAI 195 RPAC 8182.pdf		85812
image001.jpg	5040	

**Options**

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

## REQUEST FOR ADDITIONAL INFORMATION 195-8182

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: 14.2

### QUESTIONS

14.02-18

10 CFR 50 Appendix I as it relates to the effluent releases to a member of the public, in being able to monitor and control effluent releases.

10 CFR 20 Appendix B as it relates to monitoring and complying with the effluent concentration limits specified.

Staff review of DCD Tier 2, Revision 0, Sections 11.5 and 14.2.12.1.106 found that information on the Test Method and Acceptance Criteria in the ITP for the PERMS was not fully described. Section 11.5 describes verification of manual and automatic system controls on key system alarms such as high-level alarms associated with the PERMS simultaneously activated in the MCR, and verification of other alarms such as radiation monitor and isolation valves to monitor and control effluent discharge to the environment and other indications; however, verification of manual and automatic response to normal control, alarms, and indications are not identified in Section 14.2.12.1.106 Acceptance Criteria. Please revise the DCD to include this information and provide a markup.

