

## KHNPDCDRAIsPEm Resource

---

**From:** Ciocco, Jeff  
**Sent:** Tuesday, June 16, 2015 10:04 AM  
**To:** apr1400rai@khnp.co.kr; Harry (Hyun Seung) Chang (hyunseung.chang@gmail.com); Yunho Kim (yssh8226@gmail.com); Christopher Tyree (Christopher.tyree@aecom.com); KHNPDCDRAIsPEm Resource  
**Cc:** Huang, Jason; Clark, Theresa; Betancourt, Luis; Ward, William; Lee, Samuel  
**Subject:** APR1400 Design Certification Application RAI 31-7931 (05.02.01.01 - Compliance With the Codes and Standards Rule, 10 CFR 50.55a(  
**Attachments:** APR1400 DC RAI 31 MEB 7931.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:** 36

**Mail Envelope Properties** (A67A2D233B3FBB4C8B5109AD7C39550715C4CCD50B)

**Subject:** APR1400 Design Certification Application RAI 31-7931 (05.02.01.01 - Compliance With the Codes and Standards Rule, 10 CFR 50.55a)  
**Sent Date:** 6/16/2015 10:03:32 AM  
**Received Date:** 6/16/2015 10:03:36 AM  
**From:** Ciocco, Jeff

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

**Recipients:**

"Huang, Jason" <Jason.Huang@nrc.gov>  
Tracking Status: None  
"Clark, Theresa" <Theresa.Clark@nrc.gov>  
Tracking Status: None  
"Betancourt, Luis" <Luis.Betancourt@nrc.gov>  
Tracking Status: None  
"Ward, William" <William.Ward@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  
"Harry (Hyun Seung) Chang (hyunseung.chang@gmail.com)" <hyunseung.chang@gmail.com>  
Tracking Status: None  
"Yunho Kim (yssh8226@gmail.com)" <yssh8226@gmail.com>  
Tracking Status: None  
"Christopher Tyree (Christopher.tyree@aecom.com)" <Christopher.tyree@aecom.com>  
Tracking Status: None  
"KHNPDCDRAIsPEm Resource" <KHNPDCDRAIsPEm.Resource@nrc.gov>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	524	6/16/2015 10:03:36 AM
APR1400 DC RAI 31 MEB 7931.pdf		86802
image001.jpg	5020	

**Options**

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

## Request for Additional Information 31-7931

Issue Date: 06/16/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 05.02.01.01 - Compliance With the Codes and Standards Rule, 10 CFR 50.55a

Application Section:

### QUESTIONS

#### 05.02.01.01-1

The requirement in 10CFR50.55a(b)(1)(iii) states that applicants or licensees may use Subarticles NB-3600, NC-3600, and ND-3600 for the seismic design of piping in the 2006 Addenda through the 2008 Addenda, subject to two conditions listed in 10 CFR 50.55a(b)(1)(iii)(A) and (B). DCD Section 3.12.2.1 states that the safety related piping system design and analysis for the APR1400 are performed in accordance with the 2007 edition with 2008 addenda of the ASME Section III. However, in DCD Section 3.12.2.1, only the second provision of 10CFR50.55a(b)(1)(iii) is discussed, regarding the requirements of NB-3656(b). The staff requests the applicant revise the DCD to address both sub-provisions in and discuss in its response to this question how these provisions have been applied in the design and analysis of safety-related piping.

