

## KHNPDCDRAIsPEm Resource

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**From:** Ciocco, Jeff  
**Sent:** Thursday, August 13, 2015 10:37 AM  
**To:** KHNPDCDRAIsPEm Resource  
**Subject:** FW: APR1400 Design Certification Application RAI 97-8049 (09.04.03 - Auxiliary and Radwaste Area Ventilation System)  
**Attachments:** APR1400 DC RAI 97 SPCV 8049.pdf; image001.jpg

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**From:** Ciocco, Jeff  
**Sent:** Wednesday, July 22, 2015 1:29 PM  
**To:** apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource <KHNPDCDRAIsPEm.Resource@nrc.gov>; Harry (Hyun Seung) Chang <hyunseung.chang@gmail.com>; Yunho Kim <yshh8226@gmail.com>; Christopher Tyree <Christopher.tyree@aec.com>  
**Cc:** Chien, Nan <Nan.Chien@nrc.gov>; Segala, John <John.Segala@nrc.gov>; Wunder, George <George.Wunder@nrc.gov>; Lee, Samuel <Samuel.Lee@nrc.gov>  
**Subject:** APR1400 Design Certification Application RAI 97-8049 (09.04.03 - Auxiliary and Radwaste Area Ventilation System)

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. However, KHNP requests, and we grant, 45 days to respond to the RAI question. We may adjust the schedule accordingly.

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:** 163

**Mail Envelope Properties** (78a38ab50a2d45d69edfb3667e368651)

**Subject:** FW: APR1400 Design Certification Application RAI 97-8049 (09.04.03 - Auxiliary and Radwaste Area Ventilation System)  
**Sent Date:** 8/13/2015 10:37:28 AM  
**Received Date:** 8/13/2015 10:37:29 AM  
**From:** Ciocco, Jeff

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

**Recipients:**  
"KHNPDCDRAIsPEm Resource" <KHNPDCDRAIsPEm.Resource@nrc.gov>  
Tracking Status: None

**Post Office:** HQPWMSMRS08.nrc.gov

| Files                           | Size | Date & Time           |
|---------------------------------|------|-----------------------|
| MESSAGE                         | 1216 | 8/13/2015 10:37:29 AM |
| APR1400 DC RAI 97 SPCV 8049.pdf |      | 89289                 |
| image001.jpg                    | 5040 |                       |

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

## REQUEST FOR ADDITIONAL INFORMATION 97-8049

Issue Date: 07/22/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 09.04.03 - Auxiliary and Radwaste Area Ventilation System

Application Section:

### QUESTIONS

#### 09.04.03-1

1. To ensure reliable in-place testing, the volumetric air-flow rate of a single cleanup unit should be limited to approximately 849.51 m<sup>3</sup>/min (30,000 CFM). If a total system air flow in excess of this rate is necessary, multiple units should be used per RG 1.140, Regulatory Position C.3.2. The applicant did not indicate whether multiple-units for the Compound Building HVAC System would be used or provide the maximum air-flow rate for each unit. Therefore, to conform to the guidance in RG 1.140, Regulatory Position C.3.2, the staff requests that the applicant provide data regarding the air flow rates for the Carbon Absorber Exhaust ACU and HEPA Filter Exhaust ACU.

2. Outdoor air intake openings should be equipped with louvers, grills, screens, or similar protective devices to minimize the effects of high winds, rain, snow, ice, trash and other contaminants on the operation of the system, in accordance with the guidance in RG 1.140, Regulatory Position C.3.5. The staff requests that the applicant provide information on the use of louvers, grills, or screens for the Compound Building Controlled Area HVAC Subsystem to conform to RG 1.140, Regulatory Position C.3.5.

