

## KHNPTopRptsRAIsPEm Resource

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**From:** Gonzalez, Carlos  
**Sent:** Thursday, April 10, 2014 5:04 PM  
**To:** KHNPTopRptsRAIsPEm Resource  
**Subject:** APR1400 Topical Report RAI 1-7425 (APR1400-F-A-TR-12004, Realistic Evaluation Methodology for Large-Break LOCA of the APR1400)



APR1400 Topical  
Report RAI 1-7...

**Hearing Identifier:** KHNP\_APR1400\_TR\_RAI\_Public  
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**Subject:** APR1400 Topical Report RAI 1-7425 (APR1400-F-A-TR-12004, Realistic Evaluation Methodology for Large-Break LOCA of the APR1400)  
**Sent Date:** 4/10/2014 5:04:26 PM  
**Received Date:** 4/10/2014 5:04:27 PM  
**From:** Gonzalez, Carlos

**Created By:** Carlos.Gonzalez@nrc.gov

**Recipients:**  
"KHNPTopRptsRAIsPEm Resource" <KHNPTopRptsRAIsPEm.Resource@nrc.gov>  
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MESSAGE	1	4/10/2014 5:04:27 PM
APR1400 Topical Report RAI 1-7425 (APR1400-F-A-TR-12004, Realistic Evaluation Methodology for Large-Break LOCA of the APR1400).pdf		186122

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**Priority:** Standard  
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**From:** [Ciocco, Jeff](#)  
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**Cc:** [Gilmer, James](#); [Frankl, Istvan](#); [Steckel, James](#); [Lee, Samuel](#)  
**Subject:** APR1400 Topical Report RAI 1-7425 (APR1400-F-A-TR-12004, Realistic Evaluation Methodology for Large-Break LOCA of the APR1400)  
**Date:** Monday, March 10, 2014 3:32:09 PM  
**Attachments:** [APR1400 TR RAI 1 SRSP 7425.pdf](#)

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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  
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## **REQUEST FOR ADDITIONAL INFORMATION 1-7425**

Issue Date: 03/10/2014

Application Title: APR1400 Topical Reports

Operating Company: KHNP

Docket No. PROJ 0782

Review Section: TR Realistic Evaluation Methodology for LBLOCA of the APR1400

Application Section: Topical Report: APR1400-F-A-TR-12004 Realistic Evaluation Methodology for Large-Break LOCA of the APR1400

### **QUESTIONS**

#### **TR Realistic Evaluation Methodology for LBLOCA of the APR1400-1**

Provide a complete set of RELAP5 Mod 3.3 code manuals, including the theory manual, the input (user) manual, and the code qualification (benchmarking) manual. If these manuals are identical to published NUREG reports issued by the NRC, provide a list of these NUREG reports.

#### **TR Realistic Evaluation Methodology for LBLOCA of the APR1400-2**

Provide a Compact Disk (CD) containing: (1) the complete RELAP5/MOD3.3/K source code subroutine listings; (2) the compiled executable file(s); (3) the code input deck(s) developed for Shin-Kori (SKN), Unit 3 and Unit 4; (4) the model (node) diagram corresponding to the SKN input deck(s); and (5) the Parallel Virtual Machine (PVM) package used to link the CONTEMPT4/MOD5 with RELAP-5 code.

#### **TR Realistic Evaluation Methodology for LBLOCA of the APR1400-3**

Provide full size hard copies and PDF format files for a complete set of drawings of the reactor primary system, including the reactor pressure vessel, reactor core, cold leg and hot leg piping, steam generator, pressurizer, and the accumulator, as well as a diagram of the emergency core cooling system piping.