



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

December 22, 2017

Dr. Han-Gon Kim, Project Manager  
APR1400 Design Certification  
Advanced Reactors Development Laboratory  
Korea Hydro and Nuclear Power Co., Ltd.  
70-1312-gil, Yuseong-daero  
Yuseong-Gu, Daejeon  
305-343 Korea (Republic of)

SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION  
APPLICATION - SAFETY EVALUATION WITH NO OPEN ITEMS FOR  
CHAPTER 4, "REACTOR"

Dear Dr. Kim:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with no open items (OIs) for each chapter of Revision 1 to the Advanced Power Reactor 1400 Design Certification Application, submitted by Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd. (KHNP) on March 10, 2017.

The staff's SE with no OIs for Chapter 4, "Reactor," is being provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support upcoming meetings of the ACRS Subcommittee, scheduled to be held on January 24 - 25, 2018.

The enclosed SE with no OIs is being provided to KHNP for review of proprietary information pursuant to the Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding." The staff concludes that the enclosed SE does not contain any information for which exemption from public disclosure has been sought or approved; however, the NRC will withhold the enclosed SE from public disclosure for ten business days from the date of this letter to allow you the opportunity to verify the staff's conclusion that the SE contains no exempt information or factual errors. If within that ten day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosure will be made available for public inspection through the Publicly Available Records component of NRC's Agencywide Documents Access and Management System and placed on the NRC's public web page for this application.

Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure, this document is "DECONTROLLED."

Dr. Kim

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If you have any questions or comments concerning this matter, I can be reached at (301) 415-7038 or via e-mail address at [William.Ward@nrc.gov](mailto:William.Ward@nrc.gov).

Sincerely,

William R. Ward, Senior Project Manager */RA/*  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket No.: 52-046

Enclosure:  
As stated

cc w/enclos: See Next Page

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SAFETY EVALUATION WITH NO OPEN ITEMS FOR CHAPTER 4, "REACTOR"  
DATED: 12/22/2017

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**KHNP Mailing List**

**03/03/2017**

Daegeun Tony Ahn  
Director  
KHNP Washington DC Center  
8100 Boone Blvd, Suite 620  
Vienna, VA 22182

## Email

<a href="mailto:kimhg1108@khnp.co.kr">kimhg1108@khnp.co.kr</a>	[Han-Gon Kim]	
<a href="mailto:hansang.kim@khnp.co.kr">hansang.kim@khnp.co.kr</a>	[Hansang Kim]	
<a href="mailto:dohwan.lee@khnp.co.kr">dohwan.lee@khnp.co.kr</a>	[Do-Hwan Lee]	
<a href="mailto:junghokim@khnp.co.kr">junghokim@khnp.co.kr</a>	[Jung-Ho Kim]	
<a href="mailto:yunho.kim@khnp.co.kr">yunho.kim@khnp.co.kr</a>	[Yun Ho Kim]	
<a href="mailto:jiyong.oh@khnp.co.kr">jiyong.oh@khnp.co.kr</a>		[Jiyong Andy Oh]
<a href="mailto:jiyong.oh5@gmail.com">jiyong.oh5@gmail.com</a>		
<a href="mailto:ahn.daegeun@khnp.co.kr">ahn.daegeun@khnp.co.kr</a>	<a href="mailto:daegeun.ahn@gmail.com">daegeun.ahn@gmail.com</a>	[Daegeun Tony Ahn]
<a href="mailto:jksuh@khnp.co.kr">jksuh@khnp.co.kr</a>	[Jeong Kwan Suh]	
<a href="mailto:hachewung@khnp.co.kr">hachewung@khnp.co.kr</a>	[Che Wung Ha]	
<a href="mailto:kang.deogji@khnp.co.kr">kang.deogji@khnp.co.kr</a>	[Deog Ji Kang]	
<a href="mailto:sunguk.kwon@khnp.co.kr">sunguk.kwon@khnp.co.kr</a>	[Sun Guk Kwon]	
<a href="mailto:ptmaster300@kepco.co.kr">ptmaster300@kepco.co.kr</a>	[Hyun Chul Park]	