



**KHNP**  
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April 17, 2015  
 Document Control Desk  
 U.S. Nuclear Regulatory Commission  
 Washington, DC 20555-0001

Attention: Mr. Jeff Ciocco  
 Division of New Reactor Licensing

Docket No. 52-046  
 MKD/NW-15-0008L

**Subject: Submittal of Draft Presentation Materials for the April 28-29 Open and Closed Public Meeting Related to the APR1400 Design**

The purpose of this letter is to transmit the draft presentation materials for the open and closed public meeting to discuss various topics related to the APR1400 design, which will be held on April 28-29 between the NRC and KEPCO/KHNP.

Enclosure 1 contains a copy of the associated affidavit, and the presentation materials being submitted are as follows:

Enclosure #	Title	P/NP	Document #
Enclosure 2	Debris In-vessel Downstream Effect Evaluation	P	APR1400-K-A-EC-15001-P
Enclosure 3	Debris In-vessel Downstream Effect Evaluation	NP	APR1400-K-A-EC-15001-NP
Enclosure 4	Long-term Core Cooling with Deep Loop Seal Design	NP	APR1400-F-A-EC-15002-NP
Enclosure 5	Cross-section Library	P	APR1400-F-C-EC-15002-P
Enclosure 6	Cross-section Library	NP	APR1400-F-C-EC-15002-NP
Enclosure 7	Boron Dilution during Inadvertent Dilution Events	NP	APR1400-F-A-EC-15001-NP
Enclosure 8	Control Rod Depletion Evaluation	P	APR1400-F-C-EC-15003-P
Enclosure 9	Control Rod Depletion Evaluation	NP	APR1400-F-C-EC-15003-NP
Enclosure 10	DNBR Limit Determination Methodology for APR1400	NP	APR1400-F-C-EC-15001-NP
Enclosure 11	Burnup Credit Analysis Methodology	P	APR1400-Z-A-EC-15002-P
Enclosure 12	Burnup Credit Analysis Methodology	NP	APR1400-Z-A-EC-15002-NP

If additional information or clarification is required, please contact Yunho Kim, director of KHNP Washington DC center at yunhokim@khnp.co.kr or 703-388-0592.

Sincerely,

*M. K. Kim*

Myung-Ki Kim  
Project Manager  
Advanced Reactors Development Laboratory  
Korea Hydro and Nuclear Power Co., Ltd

Enclosures:

1. Affidavit KAW-15-0008
2. Debris In-vessel Downstream Effect Evaluation (Proprietary)  
(APR1400-K-A-EC-15001-P)
3. Debris In-vessel Downstream Effect Evaluation (Non-Proprietary)  
(APR1400-K-A-EC-15001-NP)
4. Long-term Core Cooling with Deep Loop Seal Design (Non-Proprietary)  
(APR1400-F-A-EC-15002-NP)
5. Cross-section Library (Proprietary) (APR1400-F-C-EC-15002-P)
6. Cross-section Library (Non-Proprietary) (APR1400-F-C-EC-15002-NP)
7. Boron Dilution during Inadvertent Dilution Events (Non-Proprietary)  
(APR1400-F-A-EC-15001-NP)
8. Control Rod Depletion Evaluation (Proprietary) (APR1400-F-C-EC-15003-P)
9. Control Rod Depletion Evaluation (Non-Proprietary) (APR1400-F-C-EC-15003-NP)
10. DNBR Limit Determination Methodology for APR1400 (Non-Proprietary)  
(APR1400-F-C-EC-15001-NP)
11. Burnup Credit Analysis Methodology (Proprietary) (APR1400-Z-A-EC-15002-P)
12. Burnup Credit Analysis Methodology (Non-Proprietary) (APR1400-Z-A-EC-15002-NP)

## ENCLOSURE 1

### Affidavit KAW-15-0008

I, Jae-yong Lee, state the following:

1. I am the General Manager of Korea Hydro & Nuclear Power Co., Ltd. (KHNP), and as such I am authorized to request withholding the information transmitted with this letter from public disclosure and to execute this affidavit.
2. I am familiar with the criteria applied by KHNP to determine whether certain information is proprietary, and with the policies established by KHNP to ensure the proper application of these criteria.
3. The information, APR1400-K-A-EC-15001-P, APR1400-F-C-EC-15002-P, APR1400-F-C-EC-15003-P, and APR1400-Z-A-EC-15002-P, transmitted with this letter has been classified by KHNP as proprietary in accordance with the policies for the control and protection of proprietary and confidential information. The information regarded as proprietary is identified and marked consistent with the requirements of 10 CFR 2.390, § (b)(1)(i). Accordingly, the proprietary information is enclosed within brackets and the right-hand bracket carries a notation of “TS” to indicate that the trade secret nature of the information claimed to be proprietary is the basis for proposing that the information so identified be withheld from public disclosure.
4. Pursuant to the considerations set forth in 10 CFR Section 2.390(a), KHNP considers the information classified as proprietary to be “trade secret” information since it is design, analysis, or test information that would be difficult for a competitor to reproduce and hence provides an economic and competitive advantage to KHNP.
5. The need for designating the information as proprietary has been raised within KHNP. The information is being treated proprietary and confidential and has not been disclosed by KHNP to the public.
6. Nondisclosure of the proprietary information transmitted with this letter is vital to the competitiveness held by KHNP and, hence, disclosure of the proprietary information transmitted in with this letter would have negative commercial impacts on the competitive position of KHNP in the U.S. nuclear market.
7. In accordance with KHNP policy, proprietary information contained in this document may be, or may have been, made available on a limited basis to regulatory bodies, customers, potential customers, and their agents, suppliers, and licensees, and others under suitable agreements providing for nondisclosure and limited use of the information.

I declare that the foregoing statements are true and correct to the best of my knowledge, information and belief.

Executed on April 17, 2015.



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Jae-yong Lee

General Manager

APR1400 Licensing Team

Central Research Institute

Korea Hydro & Nuclear Power Co., Ltd.

**ENCLOSURE 2**

APR1400-K-A-EC-15001-P  
“Debris In-vessel Downstream Effect Evaluation”

(Proprietary)

April 2015

**ENCLOSURE 3**

APR1400-K-A-EC-15001-NP  
“Debris In-vessel Downstream Effect Evaluation”

(Non-Proprietary)

April 2015

**ENCLOSURE 4**

APR1400-F-A-EC-15002-NP  
“Long-term Core Cooling with Deep Loop Seal Design”

(Non-Proprietary)

April 2015

**ENCLOSURE 5**

APR1400-F-C-EC-15002-P  
“Cross-section Library”

(Proprietary)

April 2015



**ENCLOSURE 6**

APR1400-F-C-EC-15002-NP  
“Cross-section Library”

(Non-Proprietary)

April 2015

**ENCLOSURE 7**

APR1400-F-A-EC-15001-NP  
“Boron Dilution during Inadvertent Dilution Events”

(Non-Proprietary)

April 2015

**ENCLOSURE 8**

APR1400-F-C-EC-15003-P  
“Control Rod Depletion Evaluation”

(Proprietary)

April 2015

**ENCLOSURE 9**

APR1400-F-C-EC-15003-NP  
“Control Rod Depletion Evaluation”

(Non-Proprietary)

April 2015

**ENCLOSURE 10**

APR1400-F-C-EC-15001-NP  
“DNBR Limit Determination Methodology for APR1400”

(Non-Proprietary)

April 2015

**ENCLOSURE 11**

APR1400-Z-A-EC-15002-P  
“Burnup Credit Analysis Methodology”

(Proprietary)

April 2015

**ENCLOSURE 12**

APR1400-Z-A-EC-15002-NP  
“Burnup Credit Analysis Methodology”

(Non-Proprietary)

April 2015