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July 10, 2017  
Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Attention: Mr. William Ward  
Division of New Reactor Licensing

Docket No. 52-046  
MKD/NW-17-0165L

**Subject: Submittal of New Technical Reports for APR1400**

**References:**

- 1. KHNP Letter MKD/NW-14-0037L, Submittal of APR1400 Technical Reports, dated December 23, 2014**
- 2. KHNP Letter MKD/NW-17-0071L, Submittal of Revised Technical Reports for APR1400, dated March 17, 2017**

The purpose of this letter is to transmit one set of technical reports newly issued regarding HELB jet impingement as discussed in the earlier KHNP-NRC face-to-face meetings held in February and April, 2017.

Accordingly, the former reports on jet impingement methodology, APR1400-E-N-NR-14003-P and APR1400-E-N-NR-14003-NP, are hereby withdrawn.

Enclosure 1 provides a copy of the associated affidavit and Enclosures 2 and 3 contain each electronic copy of proprietary or non-proprietary version of the HELB jet impingement report.

If additional information or clarification required, please contact Daegeun Ahn, Director of KHNP Washington DC Center, at [ahn.daegeun@khnp.co.kr](mailto:ahn.daegeun@khnp.co.kr) or 703-388-0592.

Sincerely,

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

Enclosures:

1. Affidavit KAW-17-0165
2. APR1400 High Energy Line Break Jet Impingement (Proprietary) (APR1400-E-N-NR-17001-P, Rev.0)
3. APR1400 High Energy Line Break Jet Impingement (Non-Proprietary) (APR1400-E-N-NR-17001-NP, Rev.0)

## **Enclosure 1**

### **Affidavit KAW-17-0165**

I, Yun-ho Kim, 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-E-N-NR-17001-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 July 10, 2017



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Yun-ho Kim  
General Manager  
APR1400 Licensing Team  
Central Research Institute  
Korea Hydro and Nuclear Power Co., Ltd

**Enclosure 2**

APR1400-E-N-NR-17001-P\_Rev.0

APR1400 High Energy Line Break Jet Impingement

(Proprietary)

**Enclosure 3**

APR1400-E-N-NR-17001-NP\_Rev.0

APR1400 High Energy Line Break Jet Impingement

(Non-proprietary)