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March 23, 2016
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-16-0228L

Subject: Revised Response to RAI 70-8027

References: 1) NRC Request for Additional Information 70-8027, dated July 15, 2015
2) KHNP Letter MKD/NW-15-0157L, Response to RAI 70-8027, dated September 17, 2015
3) Teleconference conducted between the NRC and KHNP on January 7, 2016

KHNP is hereby submitting the revised response to RAI 70-8027, dated July 15, 2015. The RAI revised response addresses Question 03.12-3 to include monitoring thermal stratification during the first cycle of operation for the first APR1000 plant. Also, a new test plan, "Pro-Core Pressurizer Surge Line Stratification Test" is added.

Enclosure 1 contains a copy of the associated affidavit. Enclosure 2 provides the revised response to RAI 70-8027 (Proprietary). Enclosure 3 provides the revised response to RAI 70-8027 (Non-Proprietary).

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

Sincerely,

Jae-yong Lee
Project Manager
Advanced Reactors Development Laboratory
Korea Hydro and Nuclear Power Co., Ltd

Enclosures:

1. Affidavit KAW-16-0228
2. Revised Response to RAI 70-8027 (Proprietary)
3. Revised Response to RAI 70-8027 (Non-Proprietary)

Enclosure 1

Affidavit KAW-16-0228

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, Revised Response to RAI 70-8027 (Proprietary), 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.



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

Executed on March 23, 2016.

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

Enclosure 2

Revised Response to RAI 70-8027

(Proprietary)

March 23, 2016

Enclosure 3

Revised Response to RAI 70-8027

(Non-Proprietary)

March 23, 2016