

**KHNP****KOREA HYDRO & NUCLEAR POWER CO., LTD**

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August 10, 2018
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-18-0121L

Subject: Submittal of Accepted Versions of Topical Report APR1400-F-M-TR-13001-P-A/-NP-A, "PLUS7 Fuel Design for the APR1400"

References: APR1400 Final Safety Evaluation for Topical Report APR1400-F-M-TR-13001-P, Revision 1, "PLUS7 Fuel Design for the APR1400", dated May 25, 2018

Korea Hydro & Nuclear Power Co., LTD (KHNP) hereby submits the accepted version of topical report APR1400-F-M-TR-13001-P-A, "PLUS7 Fuel Design for the APR1400" dated August 2018 for use in the parts of KEPSCO/KHNP's APR1400 design certification application. The nonproprietary version of this report is also transmitted herewith. This report describes the design evaluation of the PLUS7 fuel assembly based on in-reactor performance data and calculations based on previously approved fuel analysis codes and methods and it also includes its historical review information including RAI responses.

Enclosure 1 contains a copy of the associated affidavit. Enclosure 2 provides the proprietary version of the report titled "PLUS7 Fuel Design for the APR1400". Enclosure 3 provides the non-proprietary version of the report titled "PLUS7 Fuel Design for the APR1400".

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,

Yun-ho Kim
Project Manager
Advanced Reactors Development Laboratory
Korea Hydro & Nuclear Power Co., Ltd.



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Enclosures:

1. Affidavit KAW-18-0121
2. APR1400-F-M-TR-13001-P-A, "PLUS7 Fuel Design for the APR1400" (Proprietary)
3. APR1400-F-M-TR-13001-NP-A, "PLUS7 Fuel Design for the APR1400"(Non-Proprietary)

Enclosure 1

Affidavit KAW-18-0121

I, Jeong-kwan Suh, 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, report APR1400-F-M-TR-13001-P-A, “PLUS7 Fuel Design for the APR1400”, 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 August 10, 2018

A handwritten signature in black ink, reading "Jeongkwan Suh". The signature is fluid and cursive, with the first name "Jeongkwan" and the last name "Suh" clearly distinguishable.

Jeong-kwan Suh

General Manager

APR1400 Licensing Team

Korea Hydro and Nuclear Power Co., Ltd

Enclosure 2

APR1400-F-M-TR-13001-P-A,
“PLUS7 Thermal Design for the APR1400”

(Proprietary)

Enclosure 3

APR1400-F-M-TR-13001-NP-A,
“PLUS7 Thermal Design for the APR1400”

(Non-Proprietary)