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

August 23, 2018

Mr. Yun-Ho 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
34101 Korea (Republic of)

**SUBJECT: FINAL SAFETY EVALUATION FOR THE ADVANCED POWER REACTOR 1400
GENERIC REPORT, PRESSURE-TEMPERATURE LIMITS METHODOLOGY
FOR RCS HEATUP AND COOLDOWN**

Dear Mr. Kim:

By letter dated December 23, 2014, Korea Hydro & Nuclear Power Co., Ltd. (KHNP) submitted Technical Report (TR) APR1400-Z-M-NR-14008, Revision 0, "Pressure-Temperature Limits Methodology for [Reactor Coolant System] RCS Heatup and Cooldown," in support of the APR1400 design certification application (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15008A439). On March 19, 2018, KHNP submitted Revision 1 of this report (ADAMS Accession No. ML18087A118).

The U.S. Nuclear Regulatory Commission (NRC) staff has found that TR APR1400-Z-M-NR-14008, Revision 1, is acceptable for use in combined license applications referencing the APR1400 design to the extent specified and under the conditions and limitations delineated in the enclosed safety evaluation report (SER). The SER defines the basis for acceptance of the TR.

The enclosed SER is being provided to KHNP for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding." The NRC will withhold the enclosed SER from public disclosure for a total of 10 business day to allow you the opportunity to verify the staff's SER for proprietary content or security-related information not previously identified, and to perform a check for factual errors. To facilitate the NRC staff's review, please provide a marked-up copy of the SER identifying any proprietary or security-related information in addition to any factual errors or clarity concerns within 10 days from the date of this letter.

CONTACT: Brian Hughes, NRO/DLSE
301-415-6582

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If within that 10-day period, you do not request that all or portions of the SER be withheld from public disclosure, the enclosure will be made publicly available through the NRC Public Document room and the Publicly Available Records component of ADAMS, and placed on the NRC public web page for this application.

If you have any questions or comments concerning this matter, please contact Brian Hughes at 301-415-6582 or via e-mail address at Brian.Hughes@nrc.gov.

Sincerely,

/RA/

William R. Ward, Senior Project Manager
Licensing Branch 2
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

Docket No. 52-046

Enclosure:
As stated

cc w/o encl: See next page

Y. Kim

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GENERIC REPORT, "PRESSURE-TEMPERATURE LIMITS METHODOLOGY
FOR RCS HEATUP AND COOLDOWN" DATED: August 23, 2018

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3/03/2017

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

E-mail

kimhg1108@khnp.co.kr
hansang.kim@khnp.co.kr
dohwan.lee@khnp.co.kr
junghokim@khnp.co.kr
yunho.kim@khnp.co.kr
jiyong.oh@khnp.co.kr jiyong.oh5@gmail.com
ahn.daegeun@khnp.co.kr, daegeun.ahn@gmail.com
jksuh@khnp.co.kr
hachewung@khnp.co.kr
kang.deogji@khnp.co.kr
sunguk.kwon@khnp.co.kr
ptmaster300@kepco.co.kr

[Han-Gon Kim]
[Hansang Kim]
[Do-Hwan Lee]
[Jung-Ho Kim]
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