

March 22, 2017

Dr. Han-Gon Kim, Project Manager
APR1400 Design Certification
Advanced Reactors Development Laboratory
Korea Hydro and Nuclear Power Co., Ltd.
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SUBJECT: APR1400 FINAL SAFETY EVALUATION FOR TOPICAL REPORT
APR1400-F-C-TR-12002-P, REVISION 0, "KCE-1 CRITICAL HEAT FLUX
CORRELATION FOR PLUS7 THERMAL DESIGN"

Dear Dr. Kim:

The U.S. Nuclear Regulatory Commission (NRC) staff has prepared a final Topical Report Safety Evaluation (TRSE) for Topical Report APR1400-F-C-TR-12002-P, Revision 0, "KCE-1 Critical Heat Flux Correlation for PLUS7 Thermal Design." This TRSE is also valid for the non-proprietary version of the topical report. This action is supported by the letter dated February 23, 2017 (ADAMS Accession No. ML17053A159), whereby the Advisory Committee on Reactor Safeguards agrees with the NRC staff's conclusions, within the limits and conditions that are specified in the TRSE. This evaluation is in support of the review of the APR1400 design certification application submitted by Korea Hydro and Nuclear Power (KHNP) on December 23, 2014.

The staff requests that KHNP publish the accepted proprietary and non-proprietary versions of this topical report within one month of receipt of this letter. The accepted versions shall incorporate this letter and the enclosed final TRSE after the title page. Also, they must contain historical review information, including NRC requests for additional information and your responses. The accepted versions of the topical report shall include an "-A" (designated accepted) following the report identification number.

If the NRC's criteria or regulations change such that its conclusion that the accepted topical report is invalidated, KHNP and/or the applicant referencing the topical report will be expected either to revise and resubmit its respective documentation or to submit justification for continued applicability of the topical report without revision of the respective documentation.

If you have any questions or comments concerning this matter, do not hesitate to call. I can be reached at (301) 415-6391 or via e-mail address at Jeff.Ciocco@nrc.gov.

Sincerely,

/RA/

Jeffrey A. Ciocco, Senior Project Manager
Licensing Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-046

Enclosures:
As stated

cc w/ encl.: See next page

APR1400 FINAL SAFETY EVALUATION FOR TOPICAL REPORT APR1400-F-C-TR-12002-P, REVISION 0, "KCE-1 CRITICAL HEAT FLUX CORRELATION FOR PLUS7 THERMAL DESIGN" DATE March 22, 2017

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ADAMS Accession Nos.

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