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October 16, 2017

Dr. Han-Gon Kim, Project Manager
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SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION
APPLICATION - SAFETY EVALUATION WITH CONFIRMATORY ITEMS FOR
CHAPTER 12, "RADIATION PROTECTION"

Dear Dr. Kim:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with confirmatory items (CIs) for each chapter of Revision 1 to the Advanced Power Reactor 1400 Design Certification Application, submitted by Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd. (KHNP) on March 10, 2017.

The staff's SE with CIs for Chapter 12, "Radiation Protection," is being provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support upcoming meetings of the ACRS Subcommittee, scheduled to be held on November 14 - 15, 2017.

The enclosed SE with CIs is being provided only 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 staff concludes that the enclosed SE does not contain any information for which exemption from public disclosure has been sought or approved or any factual errors. However, the NRC will withhold the enclosed SE from public disclosure for ten business days from the date of this letter to allow you the opportunity to verify the staff's conclusion that the SE contains no such exempt information or any factual errors. If within that ten day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosure will be made available for public inspection through the NRC Public Document Room and the Publicly Available Records component of NRC's Agencywide Documents Access and Management System and placed on the NRC's public web page for this application.

Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure, this document is "DECONTROLLED."

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Dr. Kim

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If you have any questions or comments concerning this matter, please contact Getachew Tesfaye at (301) 415-8013 or via e-mail address at Getachew.Tesfaye@nrc.gov.

Sincerely,

/RA/

William R. Ward, Senior Project Manager
Licensing Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket No.: 52-046

Enclosure:
As stated

cc w/ encls: See Next Page

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SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION APPLICATION -
SAFETY EVALUATION WITH CONFIRMATORY ITEMS FOR CHAPTER 12,
"RADIATION PROTECTION" DATED: 10/16/2017

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