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

January 25, 2018

Dr. Han-Gon 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
305-343 Korea (Republic of)

SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION APPLICATION -
SAFETY EVALUATION WITH NO OPEN ITEMS FOR SECTION 19.4, "LOSS OF
LARGE AREAS OF THE PLANT DUE TO EXPLOSIONS OR FIRE"

Dear Dr. Kim:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with no open items (OIs) 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 no OIs for Section 19.4, "Loss of Large Areas of the Plant," 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 February 21, 2018.

The enclosed SE with no OIs 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 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 review the staff's SE for proprietary content and check on 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's 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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- 2 -

If you have any questions or comments concerning this matter, I can be reached at (301) 415-7038 or via e-mail address at William.Ward@nrc.gov.

Sincerely,

/RA/

William 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/enclosure: See Next Page

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- 2 -

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SAFETY EVALUATION WITH NO OPEN ITEMS FOR CHAPTER 19.4, "LOSS OF
LARGE AREAS OF THE PLANT"
DATED: 1/25/2018

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