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

September 19, 2018

Mr. Yun-Ho Kim, Project Manager
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Advanced Reactors Development Laboratory
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SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION
APPLICATION – FINAL SAFETY EVALUATION FOR THIRTEEN CHAPTERS

Dear Mr. Kim:

The U.S. Nuclear Regulatory Commission (NRC) staff has prepared a Final Safety Evaluation Report (FSER) for each chapter of Revision 3 to the Advanced Power Reactor 1400 Design Certification Application, submitted by Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd. (KHNP) on August 13, 2018.

The staff's FSERs for the thirteen chapters listed below are being provided to KHNP for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding." The staff concludes that the enclosed FSERs do not contain any information for which exemption from public disclosure has been sought or approved; however, the NRC will withhold the enclosed FSERs 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 FSERs contain no exempt information or factual errors. If within that ten-day period, you do not request that all or portions of the FSERs be withheld from public disclosure, the enclosure will be made available for public inspection through 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.

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Mr. Kim

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FSEERs included are:

Chapter 2 – “Site Characteristics”

Chapter 4 – “Reactor”

Chapter 5 – “Reactor Coolant Systems and Connecting Systems”

Chapter 6 – “Engineered Safety Features”

Chapter 7 – “Instrumentation and Controls”

Chapter 8 – “Electric Power”

Chapter 11 – “Radioactive Waste Management”

Chapter 12 – “Radiation Protection”

Chapter 13 – “Conduct of Operations”

Chapter 14 – “Verification Programs”

Chapter 16 – “Technical Specifications”

Chapter 17 – “Quality Assurance and Reliability Assurance”

Chapter 18 – “Human Factors Engineering”

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 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 enclosure: See next page

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FINAL SAFETY EVALUATION FOR THIRTEEN CHAPTERS
DATED: September 19, 2018

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