

March 4, 2015

Dr. Ha-Hwang Jung  
Executive Vice President  
Korea Hydro and Nuclear Power Co., Ltd.  
520 Yeongdong-daero  
Gangnam-gu  
Seoul, KOREA 135-881

Dr. Hee-Yong Lee  
Executive Vice President and Chief Nuclear Officer  
Korea Electric Power Corporation  
Jeollyeok-ro 55  
Naju-si  
Jeollanam-do, KOREA 520-350

SUBJECT: KOREA HYDRO AND NUCLEAR POWER CO., LTD., AND KOREA ELECTRIC  
POWER CORPORATION – ACCEPTANCE OF THE APPLICATION FOR  
STANDARD DESIGN CERTIFICATION OF THE APR1400

Dear Dr. Jung and Dr. Lee:

By letter to the Nuclear Regulatory Commission (NRC) dated December 23, 2014, Korea Hydro and Nuclear Power Co., Ltd., and Korea Electric Power Corporation submitted an application for a standard design certification of the Advanced Power Reactor 1400 (APR1400), pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." The NRC staff performed an acceptance review in accordance with 10 CFR 2.815, 10 CFR 52.46, and 10 CFR 52.47 and has decided to accept the APR1400 design certification application for docketing based on its determination that the application is sufficiently complete and technically adequate to allow the staff to conduct its detailed technical review.

Pursuant to 10 CFR 2.815, the docket number established for this application is 52-046. The NRC staff will provide its schedule for the detailed technical review of your application shortly. The enclosed notice of docketing has been forwarded to the Office of the *Federal Register* for publication.

- 2 -

If you have any questions, please contact me at (301) 415-6391 or via e-mail at [Jeff.Ciocco@nrc.gov](mailto: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

Enclosure:  
As Stated

cc w/encl: See next page

**NUCLEAR REGULATORY COMMISSION**

**[Docket No. 52-046; NRC-2015-0XXX]**

**Korea Hydro and Nuclear Power Co., Ltd.,**

**and Korea Electric Power Corporation**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Notice of docketing.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) has determined that Korea Hydro and Nuclear Power Co., Ltd. (KHNP) and Korea Electric Power Corporation (KEPCO) have submitted information for a standard design certification of the APR1400 Standard Plant Design that is acceptable for docketing. The docket number established is 52-046.

**DATES:** [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**ADDRESSES:** Please refer to Docket ID **NRC-2015-0XXX** when contacting the NRC about the availability of information regarding this document. You may obtain publicly-available information related to this document using any of the following methods:

- **Federal Rulemaking Web site:** Go to <http://www.regulations.gov> and search for Docket ID **NRC-2015-0XXX**. Address questions about NRC dockets to Carol Gallagher; telephone: 301-287-3422; e-mail: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@nrc.gov). For technical questions, contact the individual listed in the FOR FURTHER INFORMATION CONTACT section of this document.

- **NRC'S Agencywide Documents Access and Management System (ADAMS):** You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "[ADAMS Public](#)

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[Documents](#)” and then select “[Begin Web-based ADAMS Search.](#)” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). The ADAMS accession number for each document referenced in this document (if that document is available in ADAMS) is provided the first time that the document is referenced. The application is available in ADAMS under Accession No. ML15006A037.

- **NRC’s PDR:** You may examine and purchase copies of public documents at the NRC’s PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

**FOR FURTHER INFORMATION CONTACT:** Jeffrey Ciocco, Office of New Reactors, U.S. Nuclear Regulatory Commission, Washington, DC, 20555-0001; telephone: 301-415-6391; e-mail: [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

**SUPPLEMENTARY INFORMATION:**

By letter dated December 23, 2014, KHNP and KEPCO filed with the NRC, pursuant to Section 103 of the Atomic Energy Act and Part 52 of Title 10 of the *Code of Federal Regulations* (10 CFR), “Licenses, Certifications, and Approvals for Nuclear Power Plants,” an application for standard design certification of the APR1400 Standard Plant Design. A notice of receipt for this application was previously published in the *Federal Register* on February 3, 2015 (80 FR 5792).

The APR1400 stands for Advanced Power Reactor with a 1,400 megawatts electrical power and two-loop pressurized water reactor, developed in the Republic of Korea. According to the applicant, based on the self-reliant technologies and experiences from the design, construction, operation and maintenance of the Optimized Power Reactor 1000 (OPR1000), the APR1400 adopts advanced design features to enhance plant safety, economical efficiency, and

convenience of operation and maintenance. The APR1400 application includes the entire power generation complex, except those elements and features considered site-specific.

The NRC staff has determined that KHNP and KEPCO have submitted information in accordance with 10 CFR Part 2, "Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders," and 10 CFR Part 52 that is acceptable for docketing. The docket number established for this application is 52-046.

The NRC staff will perform a detailed technical review of the design certification application. Docketing of the design certification application does not preclude the NRC from requesting additional information from the applicant as the review proceeds, nor does it predict whether the NRC will grant or deny the application. A notice related to the rulemaking pursuant to 10 CFR 52.51 for design certification, including provisions for participation of the public and other parties, will be the subject of a subsequent *Federal Register* notice.

Dated at Rockville, Maryland, this 3<sup>rd</sup> day of March, 2015.

For the Nuclear Regulatory Commission.

**/RA/**

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

If you have any questions, please contact me at (301) 415-6391 or via e-mail at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

*/RA/*

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

Docket No. 52-046

Enclosure:  
As Stated

cc w/encl: See next page

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**ADAMS Package No.:** ML15041A348

**Letter No.:** ML15041A455

\* via e-mail

NRO-002

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