

April 12, 2016

Dr. Jae Yong Lee  
Project Manager  
APR1400 Design Certification  
Advanced Reactors Development Laboratory  
Korea Hydro and Nuclear Power Co., Ltd.  
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305-343 Korea (Republic of)

SUBJECT: PROPRIETARY AND FACTUAL REVIEW OF THE ADVANCED  
POWER-REACTOR 1400 ADVANCED TOPICAL REPORT SAFETY  
EVALUATION FOR TOPICAL REPORT APR1400-Z-M-TR-12003-P,  
REVISION 0, "FLUIDIC DEVICE DESIGN FOR THE APR1400"

Dear Dr. Lee:

The U.S. Nuclear Regulatory Commission (NRC) staff has prepared an advanced Topical Report Safety Evaluation (TRSE) for Topical Report APR1400-Z-M-TR-12003-P, Revision 0, "Fluidic Device Design for the APR1400." This is in support of the review of the advanced power-reactor 1400 (APR1400) design certification application submitted by Korea Hydro and Nuclear Power (KHNP) and Korea Electric Power Corporation (KEPCO) on December 23, 2014.

The enclosed advanced TRSE is being provided to KHNP for a 20 day review of proprietary information. Pursuant to Title 10 of the *Code of Federal Regulations* 2.390, we have determined that the enclosed advanced TRSE may contain proprietary information or other categories of information that should be withheld from public disclosure. If the NRC's criteria or regulations change, so that its conclusion that the accepted topical report is invalidated, KHNP and/or the applicant referencing the topical report will be expected to revise and resubmit its respective documentation, or submit justification for continued applicability of the topical report without revision of the respective documentation.

To facilitate the NRC staff's review, please provide a marked up copy of the advanced TRSE identifying any proprietary information in addition to any factual errors or clarity concerns within 20 days from the date of this letter.

Following your review, this advanced TRSE will be provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support upcoming meetings.

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

J. Lee

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If you have any questions or comments concerning this matter, I can be reached at (301) 415-5207 or via e-mail address at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

**/RA/**

Jeff 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

J. Lee

- 2 -

If you have any questions or comments concerning this matter, I can be reached at (301) 415-1383 or via e-mail address at [Jeff.Ciocco@nrc.gov](mailto:Jeff.Ciocco@nrc.gov).

Sincerely,

/RA/

Jeff 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

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