

March 7, 2016

Dr. Jae Yong Lee
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APR1400 Design Certification
Advanced Reactors Development Laboratory
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SUBJECT: REVIEW UPDATE OF THE KOREA HYDRO AND NUCLEAR POWER CO., LTD., AND KOREA ELECTRIC POWER CORPORATION APPLICATION FOR STANDARD DESIGN CERTIFICATION OF THE ADVANCED POWER REACTOR 1400

Dear Dr. Lee:

By letter dated June 2, 2015, the U.S. Nuclear Regulatory Commission (NRC) issued a schedule to Korea Hydro and Nuclear Power (KHNP) and Korea Electric Power Corporation (KEPCO) for reviewing the advanced power-reactor 1400 (APR1400) design certification application (see ADAMS Accession No. ML15041A348). We are pleased to inform you that Phase 1 of the design certification review has been completed on time.

The review schedule letter states that the NRC's goal is to conduct a high quality safety review that is transparent and timely. The premise of the schedule assumes technically correct and complete and timely responses to the NRC's requests for additional information (RAIs). Any new and significant changes or additions to the design certification supporting documentation could impact the scheduled completion dates.

The project has now progressed to Phase 2 of the 6 Phase review. The staff finds that a majority of the review is on schedule. While you have been successful at responding to and resolving many technical questions, there are some issues emerging that will require senior management attention if the current review schedule is to remain unchanged. Unresolved technical issues such as fuel assembly end-of-life seismic analysis and delays in RAI responses in several areas such as radiation protection, seismic and structural analysis, and probabilistic risk assessment could lead to challenges to the staff's ability to complete its review and still meet the established schedule.

To achieve the Phase 2 milestone, the NRC must achieve resolution of the specific technical matter or must have sufficient information from you that meets the criteria for establishing the review area as an open item. To create an open item, the NRC must determine: that an applicant and the NRC have a clear understanding of the scope of the regulatory issue; have a clear understanding regarding how the necessary information will be developed; and have a schedule for when the information will be provided. The NRC staff will assess the progress made toward the timely closure of the currently unresolved regulatory issues and determine by

Summer 2016, whether the Phase 2 schedule, published as November 2016, may need to be modified.

As we have done throughout this review, the NRC staff will continue to interact with your staff to discuss individually the plans and schedules for resolution of the questions raised in the outstanding RAIs.

If you have any questions, please contact Jeff Ciocco, the Lead Project Manager for this review, at (301) 415-6391 or via e-mail at Jeff.Ciocco@nrc.gov.

Sincerely,

/RA/

Frank Akstulewicz, Director
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-046

cc: See next page

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9/22/2015

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