

February 8, 2016

MEMORANDUM TO: Samuel Lee, Chief  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

FROM: John Vera, Project Manager **/RA/**  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: THE U.S. NUCLEAR REGULATORY COMMISSION STAFF'S  
REGULATORY AUDIT PLAN REGARDING RADIATION SHIELDING  
CALCULATIONS

On March 4, 2015, the U.S. Nuclear Regulatory Commission (NRC) accepted the design certification (DC) application for docketing of the Advanced Power Reactor 1400 (APR1400) submitted by Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd. (KHNP). The NRC staff initiated Phase 1 of the application DC review on March 9, 2015.

As a result of a large number of shielding changes in the Design Control Document (DCD) as part of responses to Requests for Additional Information (RAIs) and errors identified in the original DCD information, the NRC staff has identified a need to conduct a regulatory audit to review the applicant's shielding calculations to ensure that the information in the DCD is accurate and acceptable.

The audit will help staff gain an understanding of KHNP's methodology and calculations for determining the shielding thicknesses and dose rates throughout the plant during normal operating conditions and accidents.

The audit will be conducted from February 12, 2016, through March 4, 2016, at the NRC headquarters in Rockville, MD. A copy of the audit plan is enclosed.

Docket No: 52-046

Enclosure:  
Audit Plan

cc w/encl: See next page

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