

July 28, 2015

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

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

SUBJECT: AUDIT PLAN FOR ITEMS FOR TOPICAL REPORT APR1400-F-A-TR-12004-P, "REALISTIC EVALUATION METHODOLOGY FOR LARGE BREAK LOCA OF THE APR1400"

On March 5, 2015, the U.S. Nuclear Regulatory Commission (NRC) accepted the design certification application for docketing of the Advanced Power Reactor 1400 (APR1400) submitted by Korea Electric Power Corporation (KEPCO) and Korea Hydro and Nuclear Power Co., Ltd. (KHNP). The NRC staff initiated Phase 1 of the application design certification review on March 9, 2015.

The NRC staff has identified a need to conduct a regulatory audit of the documents and supporting calculations related to the review of the topical report APR1400-F-A-TR-12004-P, "Realistic Evaluation Methodology for Large Break LOCA of the APR1400." The primary scope is the review of design calculations and other supporting documents that form the basis of the applicant's large break loss-of-coolant accident (LOCA) design analyses which support Design Certification Section 15.6.5. The audit will take place in two parts via either review of documentation placed in the APR1400 electronic reading room, or in face-to-face meetings at KHNP's Washington, D.C., Center in Vienna, Virginia, over several days, from August 17, 2015, through September 30, 2015. A copy of the audit plan is enclosed.

Docket No.: 52-046

Enclosure:

1. Audit Plan

cc w/encl: See next page

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