



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 29, 2018

MEMORANDUM TO: Michael McCoppin, Chief
Licensing Branch 2
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

FROM: James Steckel, Project manager */RA Carolyn Lauron Acting for/*
Licensing Branch 2
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

SUBJECT: AUDIT SUMMARY FOR THE KOREA HYDRO AND NUCLEAR
POWER CO. LTD ADVANCED POWER REACTOR 1400 NON-LOCA
CHAPTER 15 TRANSIENT AND ACCIDENT ANALYSES REVIEW
OF THE APR1400 DESIGN CONTROL DOCUMENT

The purpose of this memorandum is to document for Licensing Branch 2, the summary of the Regulatory Audit conducted from June 10, 2015 through June 16, 2016. During this period a team from the U.S. Nuclear Regulatory Commission (NRC), Office of New Reactors (NRO), performed an audit of Korea Hydro and Nuclear Power Co., Ltd. (KHNP), Advanced Power Reactor 1400 (APR1400) information related to Chapter 15 of the KHNP standard design certification application. The purpose of the audit was to gain a better understanding of the calculations supporting the safety analyses presented in the following sections of Chapter 15 of the APR1400 Design Control Document (DCD) and related documentation: 15.0.2, 15.1.1, 15.1.2, 15.1.3, 15.1.4, 15.4.1, 15.4.2, 15.4.3, 15.4.4, 15.4.8, 15.6.2, and 15.6.3. Information contained in the APR1400 Electronic Reading Room was reviewed, and information submitted by KHNP, as part of responses to requests for additional information, was evaluated.

The enclosed summary provides the observations made by the NRC staff during the audit, along with clarifications discussed with KHNP during the audit. A list of audit team members is provided in the audit summary, along with the list of documents reviewed by the NRC staff. The Enclosure contains the Audit Summary. The plan for this audit, dated June 10, 2015, is documented and can be found in the Agencywide Documents Access System (ADAMS) under Accession No. ML15147A597.

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Docket No. PROJ0782

Enclosure:
As stated

cc: See next page

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