



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

May 8, 2018

MEMORANDUM TO: Andrea Veil, Executive Director  
Advisory Committee on Reactor Safeguards

FROM: Anna H. Bradford, Deputy Director /RA/  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION  
APPLICATION – SAFETY EVALUATION WITH NO OPEN ITEMS  
FOR PHASE 4 CHAPTER 19, SECTION 19.2, “SEVERE ACCIDENT  
EVALUATION”

By letter dated December 23, 2014, Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co (KHNP), Ltd. submitted an application for a design certification of the Advanced Power Reactor 1400 (APR1400) Standard Design. On March 8, 2018, KHNP submitted a subsequent letter transmitting Revision 2 to the APR1400 design certification application.

Based on our review of the application, the staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its Safety Evaluation (SE) with no Open Items for Chapter 19 of the APR1400 Final Safety Analysis Report, Section 19.2, “Severe Accident Evaluation” (ML18123A464). Unless otherwise stated in the SE, the staff’s review was based on Revision 2 of the application. The SE is being provided to support a meeting of the subcommittee of the ACRS scheduled for June 5, 2018. The ACRS full committee meeting will be held after the subcommittee meeting.

The staff concludes that the SE does contain information exempt from public disclosure. However, the NRC will withhold the SE from public disclosure for ten business days to allow KHNP the opportunity to verify the staff’s conclusion that the SE contains exempt information. Therefore, the staff requests that the ACRS withhold the SE from public disclosure unless the information can be released publicly in the Agencywide Documents Access and Management System.

The staff will inform the ACRS immediately if KHNP requests that any of the information in the SE can be released for public disclosure.

Docket No.: 52-046

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 SAFETY EVALUATION WITH NO OPEN ITEMS FOR PHASE 4 CHAPTER 19,  
 SECTION 19.2, "SEVERE ACCIDENT EVALUATION"  
 DATE: 05/08/2018

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**ADAMS Accession Nos.: ML18122A222**

**MEMO: ML18122A224**

**SER: ML18123A464**

**\*via email**

**NRO-002**

<b>OFFICE</b>	DNRL/LB2: PM	DNRL/ LB2: LA	DNRL/ LB2: PM	DNRL/LB2 BC	DNRL: DD
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<b>DATE</b>	05/01/2018	05/02/2018	05/07/2018	05/08/2018	05/08/2018

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