



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

December 27, 2017

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

FROM: Frank M. Akstulewicz, Director */RA Joseph Colaccino*  
**Acting for/**  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION  
APPLICATION - SAFETY EVALUATION WITH NO OPEN ITEMS  
FOR CHAPTER 4, "REACTOR"

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 10, 2017, KHNP submitted a subsequent letter transmitting Revision 1 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 4, "Reactor" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17334A232). Unless otherwise stated in the SE, the staff's review was based on Revision 1 of the application. The SE is being provided to support a meeting of the Subcommittee of the ACRS scheduled for January 24 - 25, 2018. The ACRS Full Committee meeting will be held after the Subcommittee meeting.

The staff concludes that the SE does not contain any information exempt from public disclosure. However, the U.S. Nuclear Regulatory Commission 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 no such exempt information. Therefore, the staff requests that the ACRS withhold the SE from public disclosure until the information has been 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 be withheld from public disclosure.

Docket No.: 52-046

CONTACTS: George F. Wunder, NRO/DNRL  
301-415-1494

William R. Ward, NRO/DNRL  
301-415-7038

SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION APPLICATION -  
 SAFETY EVALUATION WITH NO OPEN ITEMS FOR CHAPTER 4, "REACTOR"  
 DATED: 12/27/2017

DISTRIBUTION:

PUBLIC	WWard, NRO	RidsNroLACSmith
LB2 R/F	RidsOgcMailCenter	RidsNroDnrl
D101	RidsNroDnrlLB2	RidsNroOd
GWunder, NRO		

ADAMS Accession Nos.:

Pkg: ML17334A072

Ltr: ML17334A161

Memo: ML17334A104

SER: ML17334A232

\*via email

NRO-002

OFFICE	NRO/DNRL/LB2: PM	NRO/DNRL/ LB2: LA*	NRODNRL/ LB2: PM	NRO/DNRL/LB2: BC	NRO/DNRL: D
NAME	GWunder/CSantos for	CSmith	WWard	MMcCoppin	FAkstulewicz
DATE	12/20/2017	12/19/2017	12/22/2017	12/21/2017	12/27/2017

**OFFICIAL RECORD COPY**