



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

December 28, 2017

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

FROM: Frank M. Akstulewicz, 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 CHAPTER 14, "VERIFICATION PROGRAMS,"  
SECTIONS 14.1 - 14.2

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 (OIs) for Sections 14.1 - 14.2 in Chapter 14, "Verification Programs" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17324B327). 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: Cayetano Santos, NRO/DNRL  
301-415-7270

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

SUBJECT: ADVANCED POWER REACTOR 1400 DESIGN CERTIFICATION APPLICATION -  
 SAFETY EVALUATION WITH NO OPEN ITEMS FOR CHAPTER 14,  
 "VERIFICATION PROGRAMS," SECTIONS 14.1-14.2  
 DATED: 12/28/2017

**DISTRIBUTION:**

PUBLIC	RidsNroDnrLB2	RidsNroLACSmith	RidsNroDnrI
LB2 R/F	WWard, NRO	CSantos, NRO	MMcCoppin, NRO
D101	RidsNroOd	RidsOgcMailCenter	

**ADAMS Accession Nos.:**

Memo: ML17324B288

Letter to KHNP: ML17324B314

SER: ML17324B327

\*via email

NRO-002

OFFICE	DNRL/LB2: PM	DNRL/ LB2: LA	DNRL/ LB2: PM	DNRL/LB2: BC	DNRL: D
NAME	CSantos	CSmith*	WWard	MMcCoppin	FAkstulewicz
DATE	12/13/2017	12/12/2017	12/22/2017	12/19/2017	12/28/2017

**OFFICIAL RECORD COPY**