

May 12, 2016

MEMORANDUM TO: Donna Williams, Acting Chief  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

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

SUBJECT: AUDIT REPORT FOR THE SOURCE TERM CALCULATIONS OF  
CHAPTER 12, "RADIATION PROTECTION," OF THE ADVANCED  
POWER REACTOR 1400 DESIGN CONTROL DOCUMENT

The Nuclear Regulatory Commission (NRC) staff conducted an audit of the radiation source term calculations of the Korea Hydro & Nuclear Power (KHNP) Co., APR1400 design certification application at the NRC Headquarters, in Rockville, Maryland from August 10, 2015, through August 14, 2015. The audit was conducted by reviewing the applicant's calculations via the KHNP-provided Electronic Reading Room. The purpose of the audit was to examine the supporting documentation for the design calculations presented in the Advanced Power Reactor 1400 design control document.

The audit plan can be found in the Agencywide Document Access and Management System (ADAMS) under accession number ML15208A492 dated July 30, 2015. The results of the audit are documented in Enclosure 1 and can be found in ADAMS under accession number ML16119A117. The list of attendees is documented in Enclosure 2 and can be found in ADAMS under accession number ML16119A127. The list of documents made available to the NRC staff is documented in Enclosure 3 and can be found in ADAMS under accession number ML16119A134.

Docket No: 52-046

Enclosures:  
As stated

cc w/encl: See next page

MEMORANDUM TO: Donna Williams, Acting Chief  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Alina Schiller, Project Manager  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: AUDIT REPORT FOR THE SOURCE TERM CALCULATIONS OF  
CHAPTER 12, "RADIATION PROTECTION," OF THE ADVANCED  
POWER REACTOR 1400 DESIGN CONTROL DOCUMENT

The Nuclear Regulatory Commission (NRC) staff conducted an audit of the radiation source term calculations of the Korea Hydro & Nuclear Power (KHNP) Co., APR1400 design certification application at the NRC Headquarters, in Rockville, Maryland from August 10, 2015, through August 14, 2015. The audit was conducted by reviewing the applicant's calculations via the KHNP-provided Electronic Reading Room. The purpose of the audit was to examine the supporting documentation for the design calculations presented in the Advanced Power Reactor 1400 design control document.

The audit plan can be found in the Agencywide Document Access and Management System (ADAMS) under accession number ML15208A492 dated July 30, 2015. The results of the audit are documented in Enclosure 1 and can be found in ADAMS under accession number ML16119A117. The list of attendees is documented in Enclosure 2 and can be found in ADAMS under accession number ML16119A127. The list of documents made available to the NRC staff is documented in Enclosure 3 and can be found in ADAMS under accession number ML16119A134.

Docket No: 52-046

Enclosures:  
As stated

cc w/encl: See next page

**DISTRIBUTION:**

PUBLIC	RidsOgcMailCenter	EStutzcage, NRO
LB2 R/F	RidsOpaMailCenter	DWilliams, NRO
D101	RidsNroLACSmith	LBetancourt, NRO
RidsNroDnrlLb2	RidsAcrsAcnwMailCenter	

**ADAMS Accession No.: ML16119A083**

**NRO-002**

OFFICE	DNRL/LB2: PM	DNRL/LB2: LA	DNRL/LB2: Lead PM	DNRL/LB2: PM
NAME	ASchiller	CSmith	JCiocco	ASchiller (signed)
DATE	05/12/2016	05/11/2016	05/12/2016	05/12/2016

**OFFICIAL RECORD COPY**

**KHNP Mailing List****9/22/2015**

Daegeun Tony Ahn  
Director  
KHNP Washington DC Center  
8100 Boone Blvd, Suite 620  
Vienna, VA 22182

## Email

leejaeyong@khnp.co.kr [Jae Yong Lee]  
hansang.kim@khnp.co.kr [Hansang Kim]  
dohwan.lee@khnp.co.kr [Do-Hwan Lee]  
hs.chang@khnp.co.kr; hyunseung.chang@gmail.com [Harry (Hyun Seung) Chang]  
junghokim@khnp.co.kr [Jung-Ho Kim]  
yunho.kim@khnp.co.kr; yshh8226@gmail.com [Yun Ho Kim]  
jiyong.oh@khnp.co.kr; jiyong.oh5@gmail.com [Jiyong Andy Oh]ahn.daegeun@khnp.co.kr;  
daegeun.ahn@gmail.com [Daegeun Tony Ahn]  
limhs@kepco.co.kr [Hyun Seung Lim]  
beraka@kepco.co.kr [Seong Key Cho]  
puritys@kepco.co.kr [Byeong Soo Kwon]  
joys@kepco.co.kr [Young Sun Cho]