

June 26, 2015

MEMORANDUM TO: Samuel Lee, Chief  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Luis Betancourt, Project Manager */RA William Ward for/*  
Licensing Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: AUDIT PLAN TO REVIEW THE ADVANCED POWER REACTOR 1400  
(APR1400) CONTROL ELEMENT DRIVE MECHANISM AND  
REACTOR PRESSURE VESSEL INTERNALS

On March 5, 2015, the U.S. Nuclear Regulatory Commission (NRC) accepted the design certification (DC) application for docketing of the Advanced Power Reactor 1400 (APR1400) submitted by Korea Electric Power Corporation (KEPCO) and Korea Hydro & Nuclear Power Co., Ltd. (KHNP). The NRC staff initiated Phase 1 of the application DC review on March 9, 2015.

The NRC staff has identified a need to conduct a regulatory audit of the control element drive mechanism (CEDM) and reactor pressure vessel internals designs referenced in the APR1400 design control document (DCD). The NRC staff will review the APR1400 dynamic testing of systems, structures and components; design of the CEDM; and design of reactor pressure vessel internals, are in accordance with the methodology and criteria described in the APR1400 DCD. The audit will take place at the NRC Headquarters, Electronic Reading Room located in Rockville, Maryland, from June 29, 2015, through July 2, 2015. A copy of the audit plan is enclosed.

Docket No: 52-046

Enclosure:  
Audit Plan

cc w/encl: See next page

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Docket No: 052-046

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Audit Plan

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## **KHNP Mailing List**

**3/2/2015**

Harry (Hyun Seung) Chang  
Senior Manager  
KHNP Washington DC Center  
8100 Boone Blvd, Suite 620  
Vienna, VA 22182

Myung-Ki Kim  
Project Manager  
APR1400 Design Certification  
Korea Hydro and Nuclear Power Co.  
70-1312-gil, Yuseong-daero, Yuseong-gu,  
Daejeon, 305-343, Korea

Jung-Ho Kim  
Senior Manager  
Technology Policy & Planning Dept.  
KHNP Headquarters  
512 Yeongdong-daero Gangnam-gu  
Seoul, 135-791, Korea

Yun Ho Kim  
Director  
KHNP Washington DC Center  
8100 Boone Blvd, Suite 620  
Vienna, VA 22182

## Email

kimmkcri@khnp.co.kr [Myung-Ki Kim]  
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]  
kang.joonseok@khnp.co.kr [Joon-Seok Kang]  
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]