

March 23, 2016

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

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

SUBJECT: SUMMARY OF THE FEBRUARY 3, 2016, PUBLIC MEETING WITH
KOREA HYDRO AND NUCLEAR POWER CO. LTD. TO DISCUSS
TOPICS RELATED TO ADVANCED POWER REACTOR 1400 DESIGN

On February 3, 2016, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and Korea Hydro and Nuclear Power Co. Ltd. (KHNP) at the NRC offices in Rockville, Maryland. The beginning of the meeting was open to the public. However, during the remainder of the meeting, proprietary materials were discussed and the meeting was closed to the public. The meeting notice was issued and documented in the NRC Agencywide Documents Access and Management System (ADAMS) under Accession Number ML16022A172. The notice included the final meeting agenda.

The purpose of the meeting was to discuss various proprietary and non-proprietary topics related to the Advanced Power Reactor 1400 (APR1400) design certification application Chapter 4.2 including test plans to address responses to draft Request for Additional Information (RAI) 8405, related to PLUS7 fuel seismic performance. Presentation materials on the PLUS7 EOL Test and Analysis Plan presented by KHNP were discussed. The publicly available presentation documents are in available in ADAMS Package Number ML16054A019.

The list of attendees is provided as an enclosure. A summary of the discussion follows:

KHNP stated they will perform spacer grid/fuel assembly tests and fuel assembly (FA) seismic analysis. The testing will include: spacer grid tests, PLUS7 FA mechanical tests, and PLUS7 FA damping tests.

KHNP stated that beginning-of-life (BOL) spacer grid test results will be used for seismic analysis. The PLUS7 seismic analysis will be performed using the existing BOL FA model with a conservatively assumed damping value. PLUS7 end-of-life (EOL) seismic analysis will also be performed.

The results from testing will be used to revise the APR1400 DCD, PLUS7 Topical Report, and FA Seismic Technical Report based on the test and analysis results. KHNP is willing to let the NRC staff witness the testing, and audit the associated reports. Discussion of the schedule for

S. Lee

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testing and analysis followed. KHNP stated the fuel seismic technical report will be updated by February 2017.

Responses to RAIs were also discussed. For RAI 275-8294, KHNP will respond to the five questions which are not related to EOL FA in the near term. Regarding the draft RAI 8405, the need for the questions will be reevaluated after the revised technical report is reviewed by the NRC staff.

Please direct any inquiries to John Vera at 301-415-5790 or via e-mail to John.Vera@nrc.gov.

Project No.: 52-046

Enclosure:
List of Attendees

cc w/enclosure: See next page

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cc w/enclosure: See next page

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NAME	JVera	CSmith	JCiocco	JVera
DATE	03/08/2016	03/23/2016	03/23/2016	03/23/2016

OFFICIAL RECORD COPY

LIST OF ATTENDEES

KHNP APR1400 Chapter 4 Fuel Seismic Meeting – Held on February 3, 2016

<u>Organization</u>	<u>Name</u>	<u>Attended by Phone</u>
AECOM	James Ross	
KHNP	Daegeun (Tony) Ahn	
KHNP	Jiyong (Andy) Oh	
KHNP	Dong Hak Kim	
Westinghouse	Roger Lu	✓
Westinghouse	Jeffery Norrell	
Westinghouse	Naomi Marshall	
Westinghouse	Rob Sisk	
Westinghouse	Jeonhyung Choi	
KEPCO NF	Woochong Chon	
KEPCO NF	Sang Youn Jeon	
KEPCO NF	Young Ki Jang	
KEPCO E&C	Tae Han Kim	
NRC	John Vera	
NRC	Marcia Carpentier	
NRC	Daniel Beacon	
NRC	Shanlai Lu	
NRC	Paul Clifford	✓
NRC	Chris Van Wert	
NRC	Rebecca Karas	
NRC	Samuel Lee	
NRC	Jeff Ciocco	
PNNL (NRC	Nick Klymyshyn	✓

Enclosure

KHNP Mailing List

9/22/2015

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