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U.S. Nuclear Regulatory Commission

Washington, DC 20555-0001

Attention: Mr. Jeff Ciocco

Division of New Reactor Licensing

Docket No. 52-046

MKD/NW-16-0546L

Subject: Revised Response to RAI 311-8278 for the Questions 03.12-6 and 03.12-9

References: 1) NRC Request for Additional Information 311-8278, dated November 16, 2015
2) KHNP Letter MKD/NW-15-0409L, Response to RAI 311-8278 for Question 03.12-5, dated December 31, 2015
3) KHNP Letter MKD/NW-16-0048L, Response to RAI 311-8278, dated January 20, 2016

KHNP is hereby submitting a revised response to RAI 311-8278, dated November 16, 2015. The RAI revises responses addressing Questions 03.12-6 and 03.12-9 in response to the teleconference call with NRC, dated April 26, 2016. It clarifies that the decoupling criteria to be applied depends on whether the branch piping geometry is known or not. Additional design information is provided regarding small bore and large bore branch piping systems and revises the description with regard to HRHF evaluation compared to the CSDRS.

Enclosure contains the revised response to RAI 311-8278 for the Questions 03.12-6 and 03.12-9 (Non-Proprietary).

If additional information or clarification is required, please contact Daegeun Ahn, Director of KHNP Washington DC Center at ahn.daegeun@khnp.co.kr or 703-388-0592.

Sincerely,

Jae-yong Lee

Project Manager

Advanced Reactors Development Laboratory

Korea Hydro and Nuclear Power Co., Ltd

Enclosure: Revised Response to RAI 311-8278 for the Questions 03.12-6 and 03.12-9 (Non-Proprietary)

Enclosure

Revised Response to RAI 311-8278 for the Questions 03.12-6
and 03.12-9

(Non-Proprietary)

May 27, 2016