



KHNP
KOREA HYDRO & NUCLEAR POWER CO., LTD

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Project No.0782

Reply Required ☐Yes ☒No

**Subject: Submittal of KHNP Response to Request for Additional Information (RAI)
No. 7004**

**Reference: 1) Letter from NRC Requesting Additional Information No. 7004,
dated January 30, 2013 (NRC Project 0782)**
**2) KHNP Topical Report: Quality Assurance Program Description for
Design Certification of the APR1400, Revision 1, May 2012
(APR1400-K-Q-TR-11005-NP (R1))**

KHNP is hereby submitting a response to the Request for Additional Information (RAI) No. 7004, dated January 30, 2013 (Reference 1). The RAI and this response are related to KHNP Topical Report APR1400-K-Q-TR-11005-NP (R1) (Reference 2). Enclosure 1 contains the response to specific questions from the RAI.

If you should have any questions or concerns, please direct them to Myung-Ki Kim at 82-42-870-5780 or at kimmk89@khnp.co.kr.

Sincerely,

Myung-Ki Kim

Director

APR1400 Licensing Team

Korea Hydro and Nuclear Power Co., Ltd

Enclosure 1: KHNP Responses to Request for Additional Information No. 7004

Cc: Mr. Ward, William
Mr. Hamzehee, Hossein G.
Mr. Park, S.

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NPD

Enclosure 1

KHNP Response to Request for Additional Information No. 7004

Non-Proprietary

February 2013

Enclosure 1

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Enclosure 1

KHNP Responses to Request for Additional Information No. 7004

Question QAPD-21

SRP Section 17.5, section C.2 states, in part, that “Design verification is completed before design outputs are used by other organizations for design work and before they are used to support other activities such as procurement, manufacture, or construction. When this timing cannot be achieved, the unverified portion of the design is identified and controlled. In all cases, the design verification is completed before relying on the item to perform its intended function.

KHNP’s response to Question 1 of the Response to Request for Additional Information No. 6834 states that “KHNP procedures encourage the completion of design verification activities before the design outputs are used by other organizations for design work, and before they are used to support other activities such as procurement, manufacture, or construction.”

The staff believes that the term “encourage” does not meet the intent of SRP Section 17.5, section C.2. Please provide clarification as to whether KHNP will require the completion of design verification before design outputs are used by other organizations for design work and before they are used to support other activities such as procurement, manufacture, or construction.

(KHNP Response)

KHNP agrees with the NRC Staff’s belief that design verification is a mandatory activity to be completed before utilizing design products to other subsequent activities. KHNP has consulted the NEI 06-14 Revision 9 dated May 2010 and NEI 11-04 Final Draft Revision dated July 2011. There is no difference between them, so KHNP has decided to adopt the idea of NEI.

Therefore, the sentence which is referenced in the question is to be revised as follows.

- KHNP normally completes design verification activities before the design outputs are used by other organizations for design work, and before they are used to support other activities such as procurement, manufacture, or construction. When such timing cannot be achieved, the design verification is completed before relying on the item to perform its intended design or safety function.*

