



**KHNP**  
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August 16, 2017  
 Document Control Desk  
 U.S. Nuclear Regulatory Commission  
 Washington, DC 20555-0001

Attention: Mr. William Ward  
 Division of New Reactor Licensing

Docket No. 52-046  
 MKD/NW-17-0209L

**Subject: Submittal of Presentation Materials for January 12-14, 2016 Audit of the  
 APR1400 Design**

The purpose of this letter is to transmit the presentation materials associated with Audit of the APR1400 design held on January 12-14, 2016.

Enclosure 1 contains copies of the associated affidavit. Enclosures 3 through 11 provide presentation materials being submitted and they are as follows:

| Enclosure No. | Title  | Document No.            |
|---------------|--|-------------------------|
| Enclosure 2   | CAREM and Differences from CSAU                            | APR1400-F-A-EC-17001-P  |
| Enclosure 3   | CAREM and Differences from CSAU                            | APR1400-F-A-EC-17001-NP |
| Enclosure 4   | Response to Open Issues                                    | APR1400-F-A-EC-17005-P  |
| Enclosure 5   | Response to Open Issues                                    | APR1400-F-A-EC-17005-NP |
| Enclosure 6   | PIRT to Uncertainty Parameter                              | APR1400-F-A-EC-17002-P  |
| Enclosure 7   | PIRT to Uncertainty Parameter                              | APR1400-F-A-EC-17002-NP |
| Enclosure 8   | Application of non-parametric statistical methods in CAREM | APR1400-F-A-EC-17004-P  |
| Enclosure 9   | Application of non-parametric statistical methods in CAREM | APR1400-F-A-EC-17004-NP |
| Enclosure 10  | The Code Modifications for RELAP5/MOD3.3/K                 | APR1400-F-A-EC-17003-P  |
| Enclosure 11  | The Code Modifications for RELAP5/MOD3.3/K                 | APR1400-F-A-EC-17003-NP |

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

Sincerely,



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Han-gon Kim  
Project Manager  
Advanced Reactors Development Laboratory  
Korea Hydro and Nuclear Power Co., Ltd

Enclosures:

1. Affidavit KAW-17-0209
2. APR1400-F-A-EC-17001-P (Proprietary)
3. APR1400-F-A-EC-17001-NP (Non-Proprietary)
4. APR1400-F-A-EC-17005-P (Proprietary)
5. APR1400-F-A-EC-17005-NP (Non-Proprietary)
6. APR1400-F-A-EC-17002-P (Proprietary)
7. APR1400-F-A-EC-17002-NP (Non-Proprietary)
8. APR1400-F-A-EC-17004-P (Proprietary)
9. APR1400-F-A-EC-17004-NP (Non-Proprietary)
10. APR1400-F-A-EC-17003-P (Proprietary)
11. APR1400-F-A-EC-17003-NP (Non-Proprietary)
12. APR1400-F-A-EC-16002-P (Proprietary)
13. APR1400-F-A-EC-16002-NP (Non-Proprietary)
14. APR1400-F-A-EC-16003-P (Proprietary)
15. APR1400-F-A-EC-16003-NP (Non-Proprietary)

## **Enclosure 1**

### **Affidavit KAW-17-0209**

I, Yun-ho Kim, state the following:

1. I am the General Manager of Korea Hydro & Nuclear Power Co., Ltd. (KHNP), and as such I am authorized to request withholding the information transmitted with this letter from public disclosure and to execute this affidavit.
2. I am familiar with the criteria applied by KHNP to determine whether certain information is proprietary, and with the policies established by KHNP to ensure the proper application of these criteria.
3. The information, APR1400-F-A-EC-17001-P (Proprietary), APR1400-F-A-EC-17005-P (Proprietary), APR1400-F-A-EC-17002-P (Proprietary), APR1400-F-A-EC-17004-P (Proprietary), APR1400-F-A-EC-17003-P (Proprietary), APR1400-F-A-EC-16002-P (Proprietary), APR1400-F-A-EC-16003-P (Proprietary), transmitted with this letter has been classified by KHNP as proprietary in accordance with the policies for the control and protection of proprietary and confidential information. The information regarded as proprietary is identified and marked consistent with the requirements of 10 CFR 2.390, § (b)(1)(i). Accordingly, the proprietary information is enclosed within brackets and the right-hand bracket carries a notation of “TS” to indicate that the trade secret nature of the information claimed to be proprietary is the basis for proposing that the information so identified be withheld from public disclosure.
4. Pursuant to the considerations set forth in 10 CFR Section 2.390(a), KHNP considers the information classified as proprietary to be “trade secret” information since it is design, analysis, or test information that would be difficult for a competitor to reproduce and hence provides an economic and competitive advantage to KHNP.
5. The need for designating the information as proprietary has been raised within KHNP. The information is being treated proprietary and confidential and has not been disclosed by KHNP to the public.
6. Nondisclosure of the proprietary information transmitted with this letter is vital to the competitiveness held by KHNP and, hence, disclosure of the proprietary information transmitted in with this letter would have negative commercial impacts on the competitive position of KHNP in the U.S. nuclear market.
7. In accordance with KHNP policy, proprietary information contained in this document may be, or may have been, made available on a limited basis to regulatory bodies,

customers, potential customers, and their agents, suppliers, and licensees, and others under suitable agreements providing for nondisclosure and limited use of the information.

I declare that the foregoing statements are true and correct to the best of my knowledge, information and belief.

Executed on August 16, 2017.



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Yun-ho Kim  
General Manager  
APR1400 Licensing Team  
Central Research Institute  
Korea Hydro and Nuclear Power Co., Ltd

**Enclosure 2**

APR1400-F-A-EC-17001-P (Proprietary)

(Proprietary)

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**Enclosure 3**

APR1400-F-A-EC-17001-NP

(Non-Proprietary)

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**Enclosure 4**

APR1400-F-A-EC-17005-P

(Proprietary)

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**Enclosure 5**

APR1400-F-A-EC-17005-NP

(Non-Proprietary)

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**Enclosure 6**

APR1400-F-A-EC-17002-P

(Proprietary)

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**Enclosure 7**

APR1400-F-A-EC-17002-NP

(Non-Proprietary)

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**Enclosure 8**

APR1400-F-A-EC-17004-P

(Proprietary)

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**Enclosure 9**

APR1400-F-A-EC-17004-NP

(Non-Proprietary)

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**Enclosure 10**

APR1400-F-A-EC-17003-P

(Proprietary)

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**Enclosure 11**

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(Non-Proprietary)

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