

**From:** Ward, William  
**Sent:** Thursday, January 11, 2018 6:05 PM  
**To:** Tony(WDCC); 'jiyong oh'  
**Cc:** 김윤호; JUNG HO KIM; Robert Sisk; Brown, Frederick; Ordaz, Vonna; Akstulewicz, Frank; Bradford, Anna; Monninger, John; Hayes, Michelle; McCoppin, Michael; Steckel, James  
**Subject:** Removal of PRA-based SMA insights from Chapter 19 SER and APR1400 design certification rule

Mr. Daegeun Ahn,  
Mr. Jiyong Oh,

On January 9, 2018, at the start of a public meeting with KHNP to discuss the APR1400 methodology for the assessment of the Probabilistic Risk Assessment (PRA)-based seismic margin analysis (SMA) insights, NRO management communicated that in order to maintain the 42-month schedule for the review of the design certification application, the PRA-based SMA insights will not be evaluated in the Chapter 19 Safety Evaluation Report. The PRA-based SMA insights will also be specifically excluded from the rule certifying the APR1400 design, if issued. This decision was based on the fact that KHNP has not yet provided information that appropriately supports its PRA-based SMA insights submittals. NRO management stated that no more meetings would be held with KHNP on the topic of the PRA-based SMA insights until after the Phase 4 milestone has been completed, due to the need to focus resources on other portions of the PRA review.

KHNP still needs to complete its DCD on APR1400 seismic capacity as discussed in SECY-93-0087 and the related SRM. To meet the 42-month schedule, KHNP must submit in a timely manner, all outstanding material identified in recent meetings as necessary for NRO to complete its review. The submitted material must be complete and correct such that it will not cause any further delays to the schedule. This includes any edits to the DCD to address the above statements regarding the PRA-based SMA insights, which must be submitted by February 16, 2018.

NRO management also communicated that if KHNP prefers that the PRA-based SMA insights be included in the SER and the design certification rule, then KHNP should send a letter to the NRC that: 1) acknowledges the submittals to date on this topic have not sufficiently addressed the issue, 2) describes how KHNP intends to resolve all open issues in a timely manner, and 3) states that KHNP is supportive of extending the 42-month review schedule in order to include this area in the certification. After receipt of the letter, the NRC will determine whether to revise the approach described above.

If you have any questions about this email, please contact me.

Respectfully,  
**William R. Ward, P.E.**  
**APR1400 DCA Lead Project Manager**  
**U.S. Nuclear Regulatory Commission**  
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