NRR-PMDAPEm Resource

From: Lingam, Siva
Sent: Wednesday, May 20, 2015 2:33 PM
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Cc: Markley, Michael; Jackson, Christopher; Razzaque, Muhammad; Chernoff, Margaret; dwvande@nppd.com
Subject: Cooper Nuclear Station - RAIs for the License Amendment Application to Revise Technical Specifications to Add Residual Heat Removal System Containment Spray Function (TAC No. MF5584)

Please note the following **official** requests for additional information (RAIs) from Reactor Systems Branch (SRXB) for the subject license amendment request of Cooper Nuclear Station (CNS) , and provide your responses to the U.S. Nuclear Regulatory Commission (NRC) within 30 days from the date of this e-mail.

SRXB - RAIs

The first paragraph on page 6 of Attachment 1 of the application dated January 15, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15021A127), [as supplemented by letter dated May 4, 2015 (ADAMS Accession No. ML15132A652)], states:

> "The analyses demonstrate that the temperature and pressure reduction capacity of the RHR [Residual Heat Removal] Containment Spray System is adequate to maintain the primary containment conditions within design limits. The RHR Containment Spray system satisfies Criterion 3 of [Title 10 of the *Code of Federal regulations* (10 CFR), Part 50, Section] 10 CFR 50.36(c)(2)(ii)."

Also, in the third paragraph on page 6 of Attachment 1 of the application dated January 15, 2015, it was stated:

> "A plant specific realistic model was developed to determine drywell airspace temperature response."

Please provide the following additional information:

1. Was the plant specific realistic model mentioned above reviewed and approved by the NRC? If not, then justify acceptability of the model for the design-basis small steam line break (SSLB) accident.

2. Describe the design-basis loss-of-coolant Accident (LOCA) for CNS.

3. Provide the calculated peak primary containment temperatures and pressures for the design-basis accident (DBA) LOCA and SSLB for CNS. For each case, discuss whether credit was taken for the RHR containment spray system.

4. Compare calculated peak primary containment temperatures and pressures for the DBA LOCA and SSLB with the design limits for CNS, and demonstrate that the calculated values are within the design limits. Justify that the margin between the calculated values and the design limit is acceptable, considering the uncertainties in the plant-specific model used in this case.

Please note that these RAIs are similar to the draft RAIs sent to you on May 4, 2015.

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