

NRR-PMDAPEm Resource

From: Titus, Brett
Sent: Thursday, May 05, 2016 3:59 PM
To: MAUER, Andrew
Cc: Shams, Mohamed; Vega, Frankie
Subject: NRC Comments on Appendix C, SFP HCLPF Calc.

Hello Andrew,

Listed below are the NRC's comments associated with the Sample SFP HCLPF Calculation discussed during the public meeting on April 20th. As you will see, they are primarily clarifications.

1) In Section C2.0, the CDFM approach in EPRI NP-6041 is developed with the guideline that "the Seismic Margin Earthquake (SME) will be conservatively specified," such that "in the frequency range of interest, in each direction, there is no more than approximately 16% probability that the response spectrum ordinate will be exceeded if the specified SME ground motion level occurs." Please clarify how using the CDFM approach with the GMRS results in a calculated HCLPF that has the same level of statistical significance as in NP-6041.

2) In section C4.0, please clarify if critical wall or floor spans will account for plant-specific design features, such as walls delimiting refueling channels, openings or gates.

3) The Appendix C calculations use a 7% damped in-structure response spectrum to account for the effects of concrete cracking from high seismic demands (i.e., page 18). However, the NRC SFP study (NUREG-2161) uses an ISRS associated with a 10% damped GMRS and a 5% ISRS for calculating seismic coefficients and hydrodynamic pressures (e.g., page 45-46). Please provide a rationale for how these different parameterizations of damping between NUREG-2161 and Appendix C yield results that appear to "compare well" (e.g., Section C.6).

Please let me know if there are any questions.

Thank you,

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