

Starefos, Joelle

From: Starefos, Joelle
Sent: Wednesday, August 07, 2013 3:32 PM
To: Poslusny, Chester (cposlusny@babcock.com)
Subject: RVT Topical Report Acceptance Items for Discussion
Attachments: RVT.pdf

Chet,

In preparation for the planned call on Monday between the NRC staff and Generation mPower to discuss the acceptance of the RVT Topical Report, the following points are provided for your consideration prior to the telephone call. This email and its attachment will be made public through the NRC ADAMS system consistent with NRC policy. Please review the information and notify me by Thursday, August 8, if any proprietary material which should be withheld is included in this email or the attachment. Please also mark the proprietary material to be withheld with square brackets.

The additional information required to access the attached file will be provided separately.

Thank you, Joelle

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In preparation for the call on Monday between the NRC staff and Generation mPower to discuss the acceptance of the RVT Topical Report, the following points are provided for your consideration prior to the telephone call.

1. Theoretical formulation provided in Chapter 4 needs additional details regarding the derivation of the formulas including the assumptions used in the derivation. For specific formulas (Equations 4, 5, and 7) while the applicable references were cited, the TR should include the details on how the formulas were derived and used including the assumptions made for implementation of the methodology.
2. The key factor for the analysis based on RVT is the determination of peak factor based on the solution of the first passage problems. The peak factor is a function of several parameters such as the type of the random process (narrow band or broad band), duration of the process, zero crossing rate of the random variable, shapes of the power spectral density function, and the probability of non-exceedance. As such, provide in the TR a detailed derivation of the peak factor (ρ) used in the RVT application including the primary assumptions and its limitations as appropriate.

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