



Draft NUREG-1855 Comments and Feedback

Don Vanover
Ken Canavan
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Draft NUREG-1855 Comments

- Section 1-3
 - Provides useful background information
 - No major comments
- Section 4 (Parameter Uncertainty)
 - Use mean value (or other appropriate point estimate if it can be argued to be close enough to the mean value).
 - Consider adding reference to EPRI Section 2.5.1
- Section 5 (Model Uncertainty)
 - How to apply process for some of the Table 5-2 Application Examples is not clear

Draft NUREG-1855 Comments (Cont'd)

- Section 5.2 ~consistent with EPRI Section 3 for base PRA model assessment
- Section 5.3 (Relevant sources of model uncertainty)
 - Confusing when generically refer to ‘model’ uncertainties since base model assessment in 5.2, QU-E new definitions, and EPRI methodology uses ‘model’ as a special qualifier.
 - Not clear in Figure 5-3 how other sources of uncertainty (not sources of ‘model’ uncertainty from the base model assessment) get added in for applications.

Draft NUREG-1855 Comments (Cont'd)

- Section 5.4/5.5 differences / concerns
 - Figure 5-3/5-4 from NUREG-1855 works from acceptance criteria and moves forward from there
 - seems to be exhaustive approach
 - Top down approach
 - Figure 4-1 from EPRI report focuses on application important contributors and then moves to acceptance criteria
 - Bottom up approach
 - More focused and less exhaustive

Draft NUREG-1855 Comments (Cont'd)

- Section 5.4/5.5 differences / concerns
 - Question usefulness of RAW_{\max} and $RAW_{\text{threshold}}$
 - Concerned about interpretation in Section 5.4 of “All such sources of model uncertainty or related assumptions must be assessed with a realistic sensitivity analysis...”
 - Cross-products of ordered pairs are illogical
 - “C” and “D” cases can only be satisfied with sensitivity cases
 - Therefore focus on important contributors and/or cause and effect relationship to define sensitivity cases seems more efficient

Draft NUREG-1855 Comments (Cont'd)

- Section 5.4/5.5 differences
 - Disagree with 2d statement that “...should yield numerous logical groupings specific to the PRA in question”
 - Only a few, if any, will have a real cause and effect relationship on the application results
- Section 6-7
 - No major comments (yet)