

Regulatory Guide Periodic Review

Regulatory Guide Number: **1.200**

Title: **An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities**

Office: **RES/DRA/PRB**

Technical Lead: **Mary Drouin**

Recommended Staff Action: **Revision (In progress)**

1. What are the known technical or regulatory issues with the current version of the Regulatory Guide (RG)?

Regulatory Guide 1.200, Revision 2, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities," was issued in March 2009. The RG describes one acceptable approach for determining whether the technical adequacy of the Probabilistic Risk Assessment (PRA) is sufficient to provide confidence in the results, such that the PRA can be used in regulatory decision-making for light-water reactors. The RG is useable and relevant for regulatory activities as it provides the staff positions on the use of PRA standards for regulatory decision-making.

This RG is intended to reflect and endorse guidance provided by the American Society of Mechanical Engineers, American Nuclear Society (ASME/ANS) PRA Standard. The ASME/ANS standards are currently being revised and developed, and these resulting changes and new standards are to be incorporated into the next revision of the RG 1.200.

2. What is the impact on internal and external stakeholders of not updating the RG for the known issues, in terms of anticipated numbers of licensing and inspection activities over the next several years?

The RG is currently in the process of being updated. However, in not updating RG 1.200, the revised and new standards will not have staff endorsement. This could cause some uncertainty in the risk-informed applications (e.g., licensing activities) for both applicants and the NRC (NRR and NRO), and impact the risk-informed inspections for licensees that are using new risk-informed applications.

3. What is an estimate of the level of effort needed to address identified issues in terms of full-time equivalent (FTE) and contractor resources?

The level of effort estimated to complete the RG revision is approximately 1 FTE in 5 yrs. (0.2 FTEs per year).

4. **Based on the answers to the questions above, what is the staff action for this guide (Reviewed with no issues identified, Reviewed with issues identified for future consideration, Revise, or Withdraw)?**

This RG will be updated in parallel with the revision and publication of the new PRA standards.

5. **Provide a conceptual plan and timeframe to address the issues identified during the review.**

RG 1.200 Revision 3 is expected to be issued for public review and comment in 2016 and issued as a final version in 2020.

NOTE: This review was conducted in September, 2014 and reflects the staff's plans as of that date. These plans are tentative and might change as the work progresses.