

## Regulatory Guide Periodic Review

**Regulatory Guide Number:** 1.157, Revision 0

**Title:** Best-Estimate Calculations of Emergency Core Cooling System Performance

**Office/Division/Branch:** NRR/DPR  
**Technical Lead:** Holly Cruz

**Staff Action Decision:** Reviewed with issues identified for future consideration

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

This RG is tied to the realistic large break loss of coolant accident (RLBLOCA) Topical Reports (TRs), and is missing new data and specs. A future revision should add supplemental information obtained during the review of the realistic LBLOCA topical report submittals. Currently AREVA TR EMF-2103(P), Revision 2, "Realistic Large Break LOCA Methodology for Pressurized Water Reactors." is under review. The revision of this RG will be coordinated in parallel.

**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?**

No significant impact noted.

**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?**

Rewrite the guide in house, and expect 300 hours FTE.

**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)?**

Reviewed with issues identified for future consideration.

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

The staff plans to review this RG again after the safety evaluations for the RLBLOCA TRs are completed.

**NOTE:** This review was conducted in April 2013 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.