

## Regulatory Guide Periodic Review

**Regulatory Guide Number:** 1.118, Revision 3

**Title:** Periodic Testing of Electric Power and Protection Systems

**Office/Division/Branch:** RES/DE/ICEEB  
**Technical Lead:** Paul Rebstock

**Staff Action Decision:** Reviewed with no issues identified

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

There are no technical or regulatory issues with Revision 3 of RG 1.118, "Periodic Testing of Electric Power and Protection Systems," dated April 1995. RG 1.118 endorses the guidance in the Institute of Electrical and Electronic Engineers (IEEE) Standard (Std.) 338-1987, "Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety Systems" (with some exceptions) as an acceptable method for demonstrating compliance with NRC regulations on periodic testing of safety systems.

IEEE Std. 338-1987 was reaffirmed in 1993, revised in 2006, and revised again in 2012. The NRC staff does not endorse the 2006 revision because it incorporates risk-informed guidance for the determination or modification of test intervals, and NRC staff does not presently support risk-related arguments concerning some aspects of digital system performance, especially concerning software. The NRC staff has not yet evaluated the 2012 revision of IEEE Std. 338.

**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?**

There are no known impacts on internal or external stakeholders if RG 1.118 is not updated at this time.

**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?**

There are no identified issues with the current regulatory guide, therefore, there are no costs associated with the updating of the current regulatory guide.

**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 no issues identified.

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

Not Applicable.

**NOTE: This review was conducted in August 2012 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.**