

## Regulatory Guide Periodic Review

**Regulatory Guide Number:** 1.22, Revision 0

**Title:** Periodic Testing of Protection System Actuation Functions (Safety Guide 22)

**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 the current version of Regulatory Guide RG) 1.22, "Periodic Testing of Protection System Actuation Functions (Safety Guide 22)." Regulatory Guide 1.22 provides guidance on periodic testing of the actuation devices used to activate systems and component important to safety during reactor operation. The guidance expands on the requirements in General Design Criteria (GDC) 20, "Protection System Functions" and GDC 21, "Protection System Reliability and testability" in Appendix A to title10 of the Code of Federal Regulations (10 CFR) part 50, "General Design Criteria for Nuclear Power Plants."

RG 1.22 was issued in February 1972, and is still acceptable. The safety guide describes design criteria and preferred methods for including actuation devices in the periodic tests of protection systems. The regulatory positions in the guide use a performance based approach to equipment testing parameters by describing the desired performance levels while allowing the licensee to develop site specific methodology to meet the regulatory requirements.

**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?**

Because there are no known technical issues with the current regulatory guide, there will be no impact on the internal or external stakeholders if the existing guide is not updated.

**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.

## **Regulatory Guide Periodic Review**

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

There are no identified issues with the current regulatory guide. Therefore, there is no need to update the current regulatory guide.

**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.**