

## Regulatory Guide Periodic Review

**Regulatory Guide Number:** 1.30, Revision 0

**Title:** Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment (Safety Guide 30)

**Office/Division/Branch:** RES/DE/ICEEB

**Technical Lead:** Kenn Miller

**Staff Action Decided:** Revise

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

Regulatory Guide 1.30 was originally published as Safety Guide 30, "Quality Assurance Requirements for the Installation, Inspection and Testing of Instrumentation and Electric Equipment," on August 11, 1972. It endorsed Institute of Electrical and Electronics Engineers (IEEE)-336-1971, Installation, Inspection and Testing Requirements for Instrumentation and Electric Equipment During the Construction of Nuclear Power Generating Stations," to support the quality assurance (QA) program requirements required by GDC 1 and Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, Appendix B. The quality assurance requirements portion have been addressed in RG 1.28 and can be removed from this Safety Guide 30. IEEE Standard 336 was most recently revised and issued in 2020 (IEEE Std 336-2020). IEEE Std 336-1971, also known as ANSI N45.2.4-1972, was endorsed in what is now called RG 1.30. The revisions to the standard since 1971 addressed enhanced clarity and simplification and broadened its scope to include plant modifications and other types of nuclear facilities. IEEE 336 was converted from a standard to a recommended practice in 2010. The quality assurance requirements, which are currently covered in RG 1.28 and endorsed IEEE Std 336-2020, will be removed from the next revision to RG 1.30. There are no significant technical or regulatory issues.

### **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?**

Since there are no significant technical or regulatory issues, use of the current version of RG 1.30 will have no known impact on internal or external stakeholders.

### **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 staff effort to revise and update the RG is estimated to be 0.07 FTE and no contractor resources.

### **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)?**

Revise. Although there are no significant technical or regulatory issues, the staff believes that a revision will be beneficial for stakeholders because it will remove the redundant QA requirements

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and update the endorsement to a newer and enhanced version of IEEE 336. The staff also believes that the revision to RG 1.30 will require minimal resources.

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

Given the coverage of quality assurance requirements in RG 1.28 and the updated IEEE Std, the NRC staff will prepare a revision to RG 1.30, with a draft out for public comment anticipated in 2023.

**NOTE: This review was conducted in August 2022 and reflects the staff's plans as of that**

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**date. These plans are tentative and are subject to change.**