

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. IEEE Standard 336 was most recently revised and issued in 2010 (IEEE Std 336-2010). 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. In addition, it was converted from a standard to a guide to allow for more flexibility (as compared to mandatory requirements) and finally converted to a recommended practice in 2010. A recommended practice allows flexibility with respect to the interpretation of the information provided in the document, but uses IEEE standard language that is more significant than a guide without the strict prescriptive language of a standard. While there are no technical or regulatory issues requiring revision of the RG, the staff decided to revise the regulatory guide to endorse the current revision of IEEE Std 336-2010, with its clarifications and scope additions, and to update the regulatory guide to incorporate the current program guidance for RGs.

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?

DG-1289 (proposed Revision 1 of RG 1.30) was previously prepared (but not issued) and is being updated for review by NRC Staff. The staff effort is estimated to be 0.05

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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.

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

The draft regulatory guide revision will be submitted to the NRC's Regulatory Guidance and Generic Issues Branch by the end of the 1st quarter of fiscal year (FY) 2019, and is anticipated to be issued for public comment by the 3rd quarter of FY19.

NOTE: This review was conducted in December 2018 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.