

Regulatory Guide Periodic Review

Regulatory Guide Number: **1.47**
Revision number: **1**
Title: **Bypassed and Inoperable Status Indication for Nuclear Power Plant Safety Systems**
Office/division/branch: **RES/DE/ICEEB**
Technical Lead: **Erick Martinez Rodriguez**
Staff Action Decided: **Reviewed with no issues identified**

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

RG 1.47 endorses Institute of Electrical and Electronics Engineers (IEEE) Std. 603-1991 "IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations," as part of a method for complying with the Nuclear Regulatory Commission's (NRC) regulations for bypassed and inoperable status indications. Specifically, applicable regulations are in title 10 of the *Code of Federal Regulations* (10 CFR) Part 50.55a(h), "Protection and safety systems," 10 CFR 50.34(f)(2)(v), "Additional TMI-related requirements," 10 CFR Part 50, Appendix B, Criterion XIV, "Inspection, Test, and Operating Status," General Design Criteria (GDCs) 1, 13, 19, 21, 22, and 24.

There are no technical or regulatory issues requiring revision of the RG. The current version of the RG endorses the current 10 CFR 50.55a(h) applicable IEEE 603-1991 standard. IEEE Std. 603 was last revised and issued in 2009 (as IEEE Std. 603-2009), and the NRC is aware of the new revision of the IEEE Std. 603 and has initiated a rulemaking process to update 10 CFR 50.55a(h) to incorporate IEEE 603-2009 as a replacement for the 1991 version in the regulations. At this time, IEEE 603-1991 is the current standard being endorsed by the NRC regulations, so there is no need to update the RG at this time. Once the rulemaking process is complete and implemented, an update to the RG might be needed to update the referenced IEEE Std. 603 to the 2009 version.

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?

Use of the current version of RG 1.47 will have no known impact on internal or external stakeholders 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?

No revision required therefore, no FTE is needed at this time.

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.

After the NRC completes the rulemaking process for 10 CFR 50.55a(h) and updates the endorsed IEEE Std. 603 version in the regulations to the IEEE Std. 603-2009 version, the agency will review the updated regulations and standard for possible revision to RG 1.47.

NOTE: This review was conducted in November 2015 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.