

## Regulatory Guide Periodic Review

Regulatory Guide Number: **1.62**  
Revision number: **1**  
Title: **Manual Initiation of Protective Actions**  
Office/division/branch: **RES/DE/ICEEB**  
Technical Lead: **Erick Martinez Rodriguez**  
Staff Action Decided: **Revise**

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

RG 1.62 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 manual initiation of protective actions to complete all credited protective actions for the safety system. Specifically, applicable regulations are in title 10 of the *Code of Federal Regulations* (10 CFR) Part 50.55a(h), "Protection and safety systems," General Design Criteria (GDCs) 1, 13, 21, and 22.

The staff identified one technical issue that should be addressed in an update to RG 1.62. RG 1.62 includes reference to Branch Technical Position (BTP) 7-19, "Guidance for Evaluation of Diversity and Defense-In-Depth in Digital Computer-Based Instrumentation and Control Systems" Revision 5. BTP 7-19 was recently updated to Revision 6 in 2012, and RG 1.62 covers some of the topics addressed in BTP 7-19. The staff recommends updating RG 1.62 to address this minor discrepancy and to keep the RG 1.62 up to date with current BTP 7-19 guidance. There are no additional technical or regulatory issues requiring revision of the RG at this time.

**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 1.62 will have no known impact on internal or external stakeholders at this time. There is no immediate impact on ongoing and anticipated licensing activities, however, to ensure consistency between RG 1.62 and BTP 7-19, RG 1.62 should be 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?**

NRC staff requires approximately 0.1 FTE to complete a full revision of RG 1.62.

**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 R.G. 1.62 to match current guidance contained in BTP 7-19 Revision 6.

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- 5. Provide a conceptual plan and timeframe to address the issues identified during the review.**
  1. Identify the portions of RG 1.62 that need revision, specifically the portions that discuss Point 4 of the NRC position on D3 in page 6 of RG 1.62, Revision 1.
  2. Review the revised RG to ensure agency program guidance for RGs is met.
  3. Transmit to the Regulatory Guidance and Generic Issues Branch for processing approximately 3/31/2016.
  4. Issuance for public comment in the Federal Register estimated for the end of Qtr. 3, 2016.

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