

## Regulatory Guide Periodic Review

**Regulatory Guide Number:** 8.27, Revision 0

**Title:** Radiation Protection Training For Personnel At Light-Water-Cooled Nuclear Power Plants

**Office/division/branch:** RES/DSA/RPB  
**Technical Lead:** Casper Sun

**Staff Action Decided:** Reviewed with issues identified for future consideration

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

RG 8.27, Revision 0, was issued in 1981 to establish the NRC's position for an acceptable approach to develop a suitable training program for radiation protection personnel working at commercial nuclear power plants. This guide describes a radiation protection training program consistent and acceptable to the NRC staff for meeting the training requirements of 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," and 10 CFR Part 20, "Standards for Protection Against Radiation."

The citations to the regulatory requirements listed in RG 8.27 are not consistent with the current regulations in 10 CFR Part 19 and 10 CFR Part 20. Also, the references listed in the guide are outdated.

**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?**

RG 8.27 has no impact on licensing and inspection activities because we do not anticipate any license applications in the next several years. In addition, current licensees are complying with NRC regulations giving instructions to employees meeting the training requirement of 10 CFR Part 19 and applying the ALARA concept as required by 10 CFR Part 20.

**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?**

An estimate of the effort needed to correct the identified issues is between 0.1 FTE and 0.2 FTE.

**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 issues identified for future consideration.

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

The staff will consider the regulatory and technical issues during the next periodic review of the guide and determine if an update is needed.

**NOTE: This review was conducted in May 2017 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.**