

## Regulatory Guide Periodic Review

**Regulatory Guide Number:** 8.28, Revision 0

**Title:** Audible-Alarm Dosimeters

**Office/Division/Branch:** RES/DSA/RPB  
**Technical Lead:** Casper Sun

**Staff Action Decided:** Revise

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

This RG was issued in 1981 to provide a program for the appropriate use of audible-alarm dosimeters, including certain conditions under which they should not be relied upon to perform their intended function, to comply with 10 CFR Part 20, "Standards for Protection Against Radiation." Since 1981, 10 CFR Part 20 has been revised and consequently some of the citations to the regulations are incorrect in RG 8.28.

RG 8.28 endorses the American National Standards Institute (ANSI) standard N13.27 (1981), "Performance Specifications for Pocket-Sized Alarming Dosimeters/Ratemeters," which has been superseded. The Institute of Electrical and Electronics Engineers (IEEE) and ANSI have developed new standards, ANSI/IEEE N42.20 (2003), "American National Standard Performance Criteria for Active Personnel Radiation Monitors," and ANSI/IEEE N42.49A (2011), "American National Standard for Performance Criteria for Alarming Electronic Personal Emergency Radiation Detectors (PERDs) for Exposure Control," which are applicable to this RG.

In addition, many of the other references in the guide are outdated.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?**

Revision of this RG will assist current licensees if they choose to develop procedures for their facility for the appropriate use of audible-alarm dosimeters and other types of dosimeters.

**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 revise this RG is between 0.1 FTE and 0.2 FTE. No contractor support is anticipated.

**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.

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

The staff plans to develop a draft guide that will be submitted to the Office of Nuclear Regulatory Research by July 2019 and to issue it for public comment by the fourth quarter of FY19.

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