

Regulatory Guide Periodic Review

Regulatory Guide Number: **8.29, Revision 1**

Title: **Instruction Concerning Risks from Occupational Radiation Exposure**

Office/division/branch: **RES/DSA/RPB**
Technical Lead: **Vered Shaffer**

Recommended Staff Action: **Revise**

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

RG 8.29 was issued in February 1996 to conform to the revision of 10 CFR Part 20, "Standards for Protection Against Radiation." The RG includes information that should be provided to employees by licensees regarding potential health risks from occupational exposure. This RG supplements RG 8.13, "Instruction Concerning Prenatal Radiation Exposure," which provides information to pregnant women, and other personnel, to help them make decisions regarding radiation exposure during pregnancy.

Since the last review of this RG, several additional technical documents have been published by the United Nations Scientific Committee on the Effects of Atomic Radiation, the International Commission on Radiological Protection, the National Council on Radiation Protection and Measurements, and the Oak Ridge Associated Universities. These references provide additional information on radiation exposures to the embryo/fetus as well as radiation exposures and stochastic and deterministic effects (noncancerous diseases and ocular effects) in occupational workers and members of the public. Therefore, RG 8.29 should be revised to reflect the current references.

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?

There is no impact on licensing and inspection activities since this RG is consistent with current NRC regulatory requirements. However, stakeholders may not be aware of the current references.

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)?

Revise.

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

The staff will revise the guide to include the updated references. The draft guide will be published for public comment by the end of the 4th quarter CY 2018.

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