

Regulatory Guide Periodic Review

Regulatory Guide Number: **8.10**

Title: **Operating Philosophy for Maintaining Occupational Radiation Exposures as low as is Reasonable Achievable**

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

Recommended Staff Action: **Revise RG 8.10 (Revision 1-R) with issues identified**

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

The current version of RG 8.10 doesn't reflect or address the revised regulations in the current 10 CFR Part 20 "Standards for Radiation Protection" and the advances made over the past 39 years in ALARA "As Low as (is) Reasonably Achievable," practices and programs. The existing version of RG 8.10 was written when ALARA was not a regulatory requirement. Since then, the 10 CFR 20 has been revised to make ALARA a requirement and this provides basis for revision of Regulatory Guide 8.10 to reflect current regulations, guidance, and practices.

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?

The most significant impact to stakeholders for not updating RG 8.10 would be that the information would not reflect discoveries and advances made over approximately the last four decades in ALARA practices, applications and principles. This would have an adverse impact on how inspections and licensing are conducted.

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?

A total of 0.2 FTE will be needed. A working group with members from various offices (RES, NRR, NRO, FSME, and NMSS) and the regions will have the task of discussing and integrating updates into RG 8.10. We don't expect to issue a contract.

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.

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

The recommended staff action is to revise Regulatory Guide 8.10 to reflect current regulations, guidance, and practices. One benefit of this action is that after revision, RG 8.10 would reflect current NRC requirements and would enhance ALARA programs. The value to NRC staff and its applicants would be the benefits associated with enhanced efficiency and effectiveness in using a common guidance document as the technical basis for license applications and other interactions between the NRC and its regulated entities. The staff plans to develop a draft guide by the fourth quarter of FY15.

NOTE: This review was conducted in September 2014 and reflects the staff's plans as of that date. These plans are tentative.