

Regulatory Guide Periodic Review

Regulatory Guide Number: 4.14, Revision 1

Title: Effluent and Environmental Monitoring at Uranium Recovery Facilities

Office/Division/Branch: NMSS/DUWP/URLB
Technical Lead: Ronald A. Burrows

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)?

This RG 4.14 Revision 1, was issued in 1980 primarily for conventional mills. Since the publication of this guide the technology has changed to include in situ recovery and heap leach. Also, Revision 1 is not consistent with the regulatory requirements incorporated in the 1991 revision of 10 CFR Part 20, "Standards for Protection Against Radiation."

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 activities since the NRC staff does not anticipate any new or renewal applications in the next several years. However, it is anticipated that there will be approximately 3-4 inspection activities per year over the next several years (and more in Agreement states). The NRC staff expects minimal impact on the inspection activities as the issues discussed in item 1 above have already been addressed as appropriate with individual licenses (e.g., specific license conditions).

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?

The estimate level of effort needed to address the identified issues is between 0.2 and 0.3 FTE. No contractor support is needed.

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.

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

The NRC staff will consider the identified issues as part of the next periodic review.

NOTE: This review was conducted in July 2019 and reflects the NRC staff plans as of that date. These plans are tentative and are subject to change.