

Regulatory Guide Periodic Review

Regulatory Guide Number: 1.7, Revision 3

Title: Control of Combustible Gas Concentration in Containment

Office/Division/Branch: NRR/JLD/TSD/JCBB
Technical Lead: Bruce Heida

Staff Action Decision: Reviewed with issued identified for future consideration

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

No significant problems known. However, minor updates to references will be required, and eventually this guide will be revised to support changes as a result of the Fukushima response.

The following recommendations for revision were identified:

- Page 6, second full paragraph. Replace the functional requirements for hydrogen monitor reference to NUREG-0737. The current reference follows a torturous path to discover that the functional requirement is to Regulatory Guide 1.97, no revision listed. Instead reference Regulatory Guide 1.97, revision 4, Type C Variable.
- Section 2.2, Oxygen Monitors: Add reference to Regulatory Guide 1.97, revision 4, Type C Variable as the functional requirement is similar to the instruction in Section 2.1, Hydrogen Monitors.
- Section 2.1 and Section 2.2: Consider making the requirements numbered 1 through 8 for hydrogen monitors and requirements 1 through 10 for oxygen monitors the same unless there are special reasons for them to be different. Regulatory Guides 1.97, revision 2 and revision 3 had the same "Category" requirements for both monitors.
- Page 10, Regulatory Analysis/Backfit Analysis: Replace the reference to DG-1117 with the actual backfit analysis paragraph from DG-1117. No need to force the reader to branch to multiple documents to discover the guidance the NRC is trying to provide

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?

No significant impact noted.

Regulatory Guide Periodic Review

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?**

Rewrite the guide in house, and expect 40 hours 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.

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

Following functional regulatory changes which are expected in response to the Fukushima event, this guide will be revised in concert with the rulemaking. The anticipated duration to complete the RG is one month following other regulatory changes from the Fukushima response.

NOTE: This review was conducted in July 2013 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.