

## Regulatory Guide Periodic Review

Regulatory Guide Number: **3.60**

Title: **Design of an Independent Spent Fuel Storage Installation (Dry Storage)**

Office/division/branch: **NMSS/DSFST/LB**

Technical Lead: **Gordon Bjorkman**

Recommended Staff Action: **Revise**

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

There are no known technical or regulatory issues with the current RG. The RG establishes a number of regulatory positions with respect to certain sections of ANSI/ANS 57.9, Design of Spent Fuel Storage Installations. However, the staff desires to broaden the scope of this RG by including specific guidance for the design of Independent Spent Fuel Storage Installations (ISFSIs) that is not related to the ANS standard. Specifically, the staff plans to incorporate lessons learned on how to perform seismic analyses and long term settlement evaluations for the design of ISFSIs. Performing incorrect analyses could cause the staff to impose license conditions to limit the number of casks that can be stored on the ISFSI pad. The staff has been holding public meetings to provide guidance to current license applicants.

**2. What is the impact on internal and external stakeholders of not updating the RG for the known issues, in terms anticipated numbers of licensing and inspection activities over the next several years?**

The impact on licensing and inspection activities is that applicants and NRC staff are reviewing applications for ISFSIs on a case by case basis. The staff anticipates about 3 licensing actions in the next several years.

**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 inclusion of additional guidance will require 0.2 to 0.4 FTE and no contract dollars.

**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)?**

The staff plans to revise the RG.

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

The staff plans to revise the guide within the next two years to incorporate guidance on how to perform seismic analyses and long term settlement evaluations for the design of ISFSIs.

**NOTE: This review was conducted in April, 2014 and reflects the staff's plans as of that date. These plans are tentative and subject to change.**