

October 28, 2015

MEMORANDUM TO: Brian E. Thomas, Director
Division of Engineering
Office of Nuclear Regulatory Research

FROM: Lawrence E. Kokajko, Director /RA/
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

SUBJECT: RESULTS OF PERIODIC REVIEW OF REGULATORY GUIDE 1.13

This memorandum documents the U.S. Nuclear Regulatory Commission (NRC) periodic review of Regulatory Guide (RG) 1.13, "Spent Fuel Storage Facility Design Basis," published in March 2007. This RG endorses the American National Standards Institute/American Nuclear Society standard N210-1976/ANS-57.2-1983. As discussed in Management Directive 6.6, "Regulatory Guides," the NRC staff reviews RGs approximately every five years to ensure that the RGs continue to provide useful guidance. The documentation of the Office of Nuclear Reactor Regulation (NRR) staff review is enclosed.

Based on the results of the periodic review, the NRR staff concludes that no changes to RG 1.13 are warranted at this time.

Enclosure:
Regulatory Guide Periodic Review

CONTACT: Kent Wood, NRR/DSS
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Leslie Perkins, NRR/DPR
(301) 415-2375

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OFFICE	NRR/DPR/PLPB	NRR/DPR/PLPB*	NRR/DSS/SRXB	NRR/DPR/PLPB	NRR/DPR	NRR/DPR
NAME	LPerkins	DHarrison	CJackson	AMendiola	MGavrilas	LKokajko
DATE	10/14/2015	10/09/2015	10/22/2015	10/26/2015	10/28/2015	10/28/2015

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Regulatory Guide Periodic Review

Regulatory Guide Number: 1.13, Revision 2

Title: Spent Fuel Storage Facility Design Basis

Office/division/branch: NRR/DSS/SNPB
Technical Lead: Kent Wood

Staff Action Decided: Reviewed with no Issues identified

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

Regulatory Guide 1.13, "Spent Fuel Storage Facility Design Basis," published in March 2007, endorses the American National Standards Institute/American Nuclear Society standard N210-1976/ANS-57.2-1983. In the staff's initial periodic review of RG 1.13 performed in October 2013, the staff identified a potential need to include guidance for performance of criticality reviews in order to meet General Design Criteria (GDC) 61 and GDC 62 with exceptions. However, the staff is currently reviewing Nuclear Energy Institute (NEI) 12-16, "Guidance for Performing Criticality Analyses of Fuel Storage at Light-Water Reactor Power Plants." The staff plans to complete review of NEI 12-16 by September 2016. If NEI 12-16 is found acceptable, the staff plans to develop a new RG to endorse NEI 12-16. If the staff develops a new RG, the initial draft will be ready by July 2017.

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 are currently no known or anticipated licensing or inspection activities from internal or external stakeholders that will be impacted by not updating RG 1.13 at this time.

3. What is an estimate of the level of effort needed to address identified issues in terms of full-time equivalent and contractor resources?

Not applicable

ENCLOSURE

- 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 no issues identified

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

Not Applicable

NOTE: This review was conducted in September 2015 and reflects the staff's plans as of that date. These plans are tentative and subject to change.