

April 30, 2014

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

FROM: Thomas H. Boyce, Chief **/RA/**  
Regulatory Guidance and Generic Issues Branch  
Division of Engineering  
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PERIODIC REVIEW OF REGULATORY GUIDES  
(RG) 3.15, 3.16, and 3.53

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of the regulatory guides (RG) listed below. As discussed in Management Directive 6.6, "Regulatory Guides," the NRC staff reviews RGs approximately every 5 years to ensure that the RGs continue to provide useful guidance. Documentation of the NRC staff's periodic review for the following RGs is enclosed.

- RG 3.15, "Standard Format and Content of License Applications for Storage Only of Unirradiated Power Reactor Fuel and Associated Radioactive Material." RG 3.15 describes methods applicable to licensing the receipt and storage of unirradiated power reactor fuel and associated radioactive materials, and was published in April, 1983.
- RG 3.16, "General Fire Protection Guide for Plutonium Processing and Fuel Fabrication Plants." RG 3.16 describes methods applicable to demonstrating compliance of their fire protection program with NRC regulations, and was published in April, 2009
- RG 3.53, "Applicability of Existing Regulatory Guides to the Design and Operation of an Independent Spent Fuel Storage Installation." RG 3.53 describes methods applicable to the design and operation of an independent spent fuel storage installation published in July 1982.

Based on the results of the periodic review, the staff concludes that no changes to RG 3.16 are warranted. The staff did not identify any technical or regulatory issues in the review.

Based on the results of the periodic review, the staff concludes that revisions to RGs 3.15 and RG 3.53 are warranted. The staff anticipates submitting the draft guides to the RGGIB staff by fall of 2014. The staff anticipates the draft guides to be issued for public comment by early 2015.

Enclosures:

Periodic Review of Regulatory Guide 3.15  
Periodic Review of Regulatory Guide 3.16  
Periodic Review of Regulatory Guide 3.53

CONTACT: Mekonen Bayssie, RES/DE/RGGIB  
301-251-7631

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OFFICE	RES/DE/RGGIB	Office/Div/branch	RES/DE/RGGIB	SUNSI Review	Res/DE/RGGIB	RES/DE
NAME	J. Parks	O. Siurano-Perez	M. Bayssie	M. Bayssie	T. Boyce	B. Thomas
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