January 29, 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 1.133

This memorandum documents the U.S. Nuclear Regulatory Commission (NRC) periodic review of Regulatory Guide (RG) 1.133, "Loose-Part Detection Program for Primary System of Light-Water-Cooled Reactors," published in May 1981. The RG provides guidance on loose-part detection program for the primary system of light-water cooled reactors. 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 NRC staff review is enclosed.

Based on the results of the periodic review, the NRC staff concludes that no changes to RG 1.133 are warranted. That staff did not identify any technical or regulatory issues in the review.

Enclosure:
Regulatory Guide Periodic Review

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

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Regulatory Guide Periodic Review

Regulatory Guide Number:	**1.133**
Title:	**Loose-Part Detection Program For Primary System of Light-Water-Cooled Reactors**
Office/division/branch:	**NRR/DE/EICB**
Technical Lead:	**Gursharan Singh**
Recommended Staff Action:	**No Revision Needed**

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

RG 1.133, "Loose-Part Detection Program for Primary System of Light-Water-Cooled Reactors," published in May 1981, establishes the U.S. Nuclear Regulatory Commission's (NRC) guidance on loose-part detection program for the primary system of light-water cooled reactors. The staff did not identify any technical or regulatory issues in the review. Therefore, no changes to the RG 1.133 are warranted.

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

The staff did not identify any technical or regulatory issues in the 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?

Not Applicable

4. Based on the answers to the questions above, what is the NRC 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, therefore, no changes to RG 1.133 are warranted at this time.

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

Not Applicable

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

ENCLOSURE