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April 20, 2015

MEMORANDUM TO: Brian E. Thomas, 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 GUIDE  
(RG) 1.166, REVISION 0

This memorandum documents the U.S. Nuclear Regulatory Commission's (NRC) periodic review of RG 1.166, Revision 0, "Pre-Earthquake Planning and Immediate Nuclear Power Plant Operator Post-Earthquake Actions." The RG describes methods that NRC staff considers acceptable for complying with 10 CFR 50, Appendix S, "Earthquake Engineering Criteria for Nuclear Power Plants," relative to the need to determination of a plant's operating basis earthquake. It was last revised in 1997. As discussed in Management Directive 6.6 "Regulatory Guides," the NRC staff reviews regulatory guides approximately every 5 years to ensure that the guides continue to provide useful guidance. Documentation of the staff's review is enclosed.

Based on the results of the periodic review, the staff concludes that a revision to RG 1.166 Revision 0 is warranted. The staff expects to release a draft RG for public comment by Quarter 1 of FY 2016.

Enclosure:  
As stated

CONTACT: Edward O'Donnell, Program Manager, RES/DE/RGGIB  
301-251-7455

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