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February 5, 2016

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

FROM: Edward X. O'Donnell, Acting 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) 1.75

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of revision 3 of regulatory guide (RG) 1.75, "Criteria for Independence of Electrical Safety Systems." 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 review is enclosed.

Regulatory guide 1.75 endorses Institute of Electrical and Electronics Engineers (IEEE) Standard 384, "IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits" (IEEE Std. 384-1992), issued in 1992. The IEEE issued a revision in 2008 (IEEE Std. 384-2008) which updates processes and programs to more current methodologies and contains improved guidance on the use of fiber optic circuits and methods to protect electrical and electronic circuits from the adverse impact of electromagnetic and radio-frequency interference (EMI/RFI).

The current version of the RG has been reviewed and it should be revised to endorse, with some exceptions and clarifications, the updated IEEE standard. The work on the initial draft of the revised guide should start in the fourth quarter of 2016.

Enclosure:  
As stated

CONTACT: David Dawood, RES/DE/ICEEB  
301-415-2389

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