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October 5, 2016

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 GUIDES

As discussed in Management Directive 6.6, "Regulatory Guides," the NRC staff reviews Regulatory Guides (RGs) approximately every 5 years to ensure that the RGs continue to provide useful guidance. The NRC staff from the Office of Nuclear Material Safety and Safeguards (NMSS) conducted a review of these RGs that were due for a periodic review. Enclosed is a summary of results of the staff's review for each of the RGs listed below.

1. Periodic Review of Regulatory Guide 1.179, "Standard Format and Content of License Termination Plans for Nuclear Power Reactors,"
2. Periodic Review of RG 3.46, "Standard Format and Content of License Applications, Including Environmental Reports, for In-Situ Uranium Solution Mining,"
3. Periodic Review of RG 3.67, "Standard Format and Content for Emergency Plans for Fuel Cycle and Materials Facilities,"
4. Periodic Review of RG 3.72, "Guidance for Implementation of Title 10 of the Code of Federal Regulations (10 CFR) 72.48, Changes, Tests, and Experiments,"
5. Periodic Review of RG 3.73, "Site Evaluations and Design Earthquakes Ground Motion for Dry Cask Independent Spent Fuel Storage and Monitored Retrievable Storage Installations,"
6. Periodic Review of RG 3.8, "Preparation of Environmental Reports for Uranium Mills,"
7. Periodic Review of RG 4.9, "Preparation of Environmental Reports for Commercial Uranium Enrichment Facilities,"
8. Periodic Review of RG 7.8, "Load Combinations for Structural Analysis of Shipping Casks for Radioactive Material,"
9. Periodic Review of RG 7.11, "Fracture Toughness Criteria of Base Material for Ferritic Steel Shipping Cask Vessels with a Maximum Wall Thickness of 4 Inches (0.1m)," and
10. Periodic Review of RG 7.12, "Fracture Toughness Criteria of Base Material for Ferritic Steel Shipping Casks Containment with a Wall thickness Greater than 4 inches (0.1m), but not Exceeding 12 Inches (0.3m)"

Enclosures:
As Stated

CONTACTS: Osiris Siurano-Perez, NMSS/FCSE
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