



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 23, 2017

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

This memorandum documents the US Nuclear Regulatory Commission's (NRCs) periodic review of the following regulatory guides (RGs):

RG No.	Regulatory Guide Title	Review Finding	Date of Review
1.7	Control of Combustible Gas Concentrations in Containment Following a Loss-of-Coolant Accident	Reviewed with issues identified for future consideration	July 2013
1.14	Reactor Coolant Pump Flywheel Integrity	Reviewed with issues identified for future consideration	April 2013
1.22	Periodic Testing of Protection System Actuation Functions (Safety Guide 22)	Reviewed with no issues identified	August 2012
1.23	Meteorological Monitoring Programs for Nuclear Power Plants	Reviewed with no issues identified	March 2013
1.32	Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment	Reviewed with no issues identified	November 2011
1.63	Electric Penetration Assemblies in Containment Structures for Nuclear Power Plants	Reviewed with no issues identified	November 2011
1.71	Welder Qualification for Areas of Limited Accessibility	Reviewed with issues identified for future consideration	March 2013

Enclosures:
As Stated

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RG No.	Regulatory Guide Title	Review Finding	Date of Review
1.96	Main Stream Isolation Valve Leakage Control Systems for Boiling Water Reactor Nuclear Power Plants	Reviewed with issues identified for future consideration	October 2013
1.97	Instrumentation for Light-Water-Cooled Nuclear Power Plants To Assess Plant and Environs Conditions During and Following an Accident	Reviewed with issues identified for future consideration	February 2013
1.114	Guidance to Operators at the Controls and to Senior Operators in the Control Room of a Nuclear Power Unit	Reviewed with no issues identified	March 2013
1.118	Periodic Testing of Electric Power and Protection Systems	Reviewed with no issues identified	August 2012
1.128	Installation Design and Installation of Large Lead Storage Batteries for Nuclear Power Plants	Reviewed with no issues identified	May 2013
1.157	Best-Estimate Calculations of Emergency Core Cooling System Performance	Reviewed with issues identified for future consideration	April 2013
1.190	Calculational and Dosimetry Methods for Determining Pressure Vessel Neutron Fluence	Reviewed with issues identified for future consideration	April 2013
1.196	Control Room Habitability at Light Water Reactors	Reviewed with issues identified for future consideration.	July 2013
1.209	Guidelines for Environmental Qualification of Safety Related Computer-Based Instrumentation and Control Systems in Nuclear Power Plants	Reviewed with issues identified for future consideration	June 2013
3.25	Standard Format And Content Of Safety Analysis Reports For Uranium Enrichment Facilities	Reviewed with no issues identified	March 2013
3.51	Calculational Models for Estimating Radiation Doses to Man from Airborne Radioactive Materials Resulting from Uranium Milling Operations	Reviewed with issues identified for future consideration	February 2013

RG No.	Regulatory Guide Title	Review Finding	Date of Review
3.59	Methods for Estimating Radioactive and Toxic Airborne Source Terms for Uranium Milling Operations	Reviewed with issues identified for future considerations	February 2013
3.65	Standard Format and Content of Decommissioning Plans for Materials Licensees	Reviewed with no issues identified	November 2013
3.66	Standard Format and Content of Financial Assurance Mechanisms	Reviewed with no issues identified	November 2013
4.14	Radiological Effluent and Environmental Monitoring at Uranium Mills	Reviewed with issues identified for future consideration	September 2012
4.15	Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) -- Effluent Streams and the Environment	Reviewed with no issues identified	April 2012
8.21	Health Physics Surveys for Byproduct Material at NRC-Licensed Processing and Manufacturing Plants	Reviewed with issues for consideration	October 2012
8.31	Information Relevant to Ensuring that Occupational Radiation Exposures at Uranium Recovery Facilities Will Be as Low as Is Reasonably Achievable	Reviewed with no issues identified	October 2012

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 staff reviews are enclosed. This memorandum documents a review of the above RGs that was conducted as part of the NRC staff's initial implementation of the periodic review process for RGs, which began in 2011. During initial implementation, the results of the reviews were considered NRC internal information and were not made publically available when the reviews were completed. However, as part of a recent staff assessment of the periodic review process, the staff determined that the information should be made publically available. Therefore, the results of the reviews of the above RGs that were conducted in 2011-2013 are provided as an enclosure to this memorandum.

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