

Appendix D

Nuclear Regulatory Commission Regulatory Guides (RG) for Electrical and I&C Systems and Components

RG 1.6	Independence Between Redundant Standby (Onsite) Power Sources and Between Their Distribution Systems
RG 1.9	Selection, Design, Qualification and Testing of Emergency Diesel-Generator Units Used as Class 1E Onsite Electric Power Systems at Nuclear Power Plants (IEEE 387)
RG 1.11	Instrument Lines Penetrating Primary Containment
RG 1.30	Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment (ANSI N45.2.4/IEEE 336)
RG 1.32	Criteria for Safety-Related Electric Power Systems for Nuclear Power Plants (IEEE 308)
RG 1.40	Qualification Tests of Continuous-Duty Motors Installed Inside the Containment of Water-Cooled Nuclear Power Plants (IEEE 334)
RG 1.47	Bypassed and Inoperable Status Indication for Nuclear Power Plant Safety Systems
RG 1.53	Application of the Single-Failure Criterion to Nuclear Power Plant Protection Systems (IEEE 279 and IEEE 379)
RG 1.63	Electric Penetration Assemblies in Containment Structures for Nuclear Power Plants (IEEE 317)
RG 1.68	Initial Test Programs for Water-Cooled Nuclear Power Plants
RG 1.73	Qualification Tests of Electric Valve Operators Installed Inside the Containment of Nuclear Power Plants
RG 1.75	Physical Independence of Electric Systems (IEEE 384)
RG 1.79	Preoperational Testing of Emergency Core Cooling Systems for Pressurized Water Reactors
RG 1.81	Shared Emergency and Shutdown Electric Systems for Multi-Unit Nuclear Power Plants
RG 1.89	Qualification of Class 1E Equipment for Nuclear Power Plants (IEEE 323)
RG 1.97	Criteria For Accident Monitoring Instrumentation for Nuclear Power Plants
RG 1.100	Seismic Qualification of Electrical and Mechanical Equipment for Nuclear Power Plants
RG 1.105	Instrument Setpoints (ISA S67.04)
RG 1.106	Thermal Overload Protection for Electric Motors on Motor-Operated Valves
RG 1.118	Periodic Testing of Electric Power and Protection Systems
RG 1.128	Installation Design and Installation of Large Lead Storage Batteries for Nuclear Power Plants (IEEE 484)
RG 1.129	Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Nuclear Power Plants (IEEE 450)
RG 1.131	Qualification Tests of Electric Cables, Field Splices, and Connections for Light-Water-Cooled Nuclear Power Plants (IEEE 383) (See RG 1.211)
RG 1.151	Instrument Sensing Lines (ISA S67.02)
RG 1.152	Criteria for Digital Computers in Safety Systems of Nuclear Power Plants
RG 1.153	Criteria for Safety Systems
RG 1.155	Station Blackout

- RG 1.168 Verification, Validation, Reviews, and Audits for Digital Computer Software Used in Safety Systems of Nuclear Power Plants
- RG 1.169 Configuration Management Plans for Digital Computer Software Used in Safety Systems of Nuclear Power Plants
- RG 1.170 Software Test Documentation for Digital Computer Software Used in Safety Systems of Nuclear Power Plants
- RG 1.171 Software Unit Testing for Digital Computer Software Used in Safety Systems of Nuclear Power Plants
- RG 1.172 Software Requirements Specifications for Digital Computer Software Used in Safety Systems of Nuclear Power Plants
- RG 1.173 Developing Software Life Cycle Processes for Digital Computer Software Used in Safety Systems of Nuclear Power Plants
- RG 1.180 Guidelines for Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems
- RG 1.204 Guidelines for Lightning Protection of Nuclear Power Plants
- RG 1.209 Guidelines for Environmental Qualification of Safety-Related Computer-Based Instrumentation and Control Systems in Nuclear Power Plants
- RG 1.210 Qualification of Safety-Related Battery Chargers and Inverters for Nuclear Power Plants
- RG 1.211 Qualification of Safety-Related Cables and Field Splices for Nuclear Power Plants (IEEE 383)
- RG 1.212 Sizing of Large Lead-Acid Storage Batteries (IEEE 485)
- RG 1.213 Qualification of Safety-Related Motor Control Centers for Nuclear Power Plants