

Student Activity: Standards vs. Regulatory Guides Matrix

<u>Requirement</u>	<u>Standard</u>	<u>Regulatory Guide</u>
GDC 17 Independence	-----	RG 1.6 Independence btw Redundt Power Supplies
GDC 17 Capacity	IEEE Std	RG 1.9 Application and Testing of EDGs
GDC 17 Redundancy	IEEE Std	RG 1.32 Electrical Power Systems
10 CFR 50.49, GDC 2,4,23 Environmental	IEEE Std	RG 1.40 Qual of Continuous Duty Motors
10 CFR 50.34(f)(2)(v), GDC 13 Bypass I&C	IEEE Std	RG 1.47 Bypass and Inop Status Indication
10 CFR 50.55a(h)	IEEE Std	RG 1.53 Application of the Single Failure Criterion
10 CFR 50.49, GDC 50	IEEE Std	RG 1.63 Electrical Penetration Assemblies
Criterion III Design Control	IEEE Std	RG 1.73 Qualification of Valve Operators
10 CFR 50.55a(h), GDC 17,21,22 Independence	IEEE Std	RG 1.75 Physical Independence
GDC 5 Sharing in Multi-unit Stations	-----	RG 1.81 Shared Power Supplies in Multi-Unit Stat
GDC 2,4 Qualification	IEEE Std	RG 1.89 Environmental qualification
GDC 2 Natural Phenomenon	IEEE Std	RG 1.100 Seismic Qual of Elec and Mech Equip
GDC 4,13, Criterion XI Test Control	(IEEE Std)	RG 1.106 MOV Thermal Overload Protection
	IEEE Std	RG 1.108 (W, See 1.9)
10 CFR 50.55a(h), GDC 21, Criterion XI	IEEE Stds , ()	RG 1.118 Periodic Testing
GDC 17, 18, Criterion III Design Control	IEEE Std	RG 1.128 Installation of Large Batteries
GDC 17,18, Criterion XI Test Control	IEEE Std	RG 1.129 Maintenance of Large Batteries
	IEEE Std	RG 1.131(W, See 1.211)
GDC 21, Criterion III Design Control	IEEE Std	RG 1.152 Digital Computers in Safety Systems
GDC 13,17,18,20,21,22,23,24,25,26	IEEE Std	RG 1.153 Criteria for Safety Systems
10 CFR 50.63, GDC 17, Criterion III	NUMARC	RG 1.155 Station Blackout
10 CFR 50.49, Criterion III	IEEE Std	RG 1.156 (RG 1.89)
Criteria III, XI, XVII	IEEE Stds ,	RG 1.168 V&V Reviews and Audits
Criteria III, VI	IEEE Stds ,	RG 1.169 Configuration Management
Criteria I,II,II,V,XI,XVII	IEEE Std	RG 1.170 Test Documentation
Criteria I,II,II,V,XI,XVII	IEEE Std	RG 1.171 Software Unit Testing

Student Activity: Standards vs. Regulatory Guides Matrix (contd.)

<u>Requirement</u>	<u>Standard</u>	<u>Regulatory Guide</u>
Criterion III	IEEE Std	RG 1.172 Software Requirements
Criteria III,VI	IEEE	RG 1.173 Software Life Cycle
GDC 1,2,4,13,21,22,23	IEEE Std , IEC	RG 1.180 Evaluating EMI/RFI
GDC 2 Natural Phenomenon	NFPA , UL	RG 1.204 Lightning Protection
	IEEE Stds , ,	“
	ANSI C	“
GDC 2,4,13,21, 22, 23, Criterion III, XI,XVII	IEEE Std	RG 1.209 Qual of Computer Based I&C
10 CFR 50.49, GDC 2,4, Criterion III	IEEE Std	RG 1.210 Qual of Battery Chargers, Inverters
10 CFR 50.49, GDC 2,4, Criterion III	IEEE Std	RG 1.211 Qual of Cables and Field Splices
10 CFR 50.63(a)(2), GDC 17, Criterion III	IEEE Std	RG 1.212 Sizing of Batteries
10 CFR 50.49, GDC 2,4, Criterion III	IEEE Std	RG 1.213 Qual of MCCs