Suggested Monthly Frequency of Maintenance

Source: MTS-2005 NETA

Section	Description	Visual	Visual & Mechanical	Visual & Mechanical & Electrical
7.1	**Switchgear & Switchboard Assemblies**	12	12	24
7.2	**Transformers**			
7.2.1.1	Small Dry-Type Transformers	2	12	36
7.2.1.2	Large Dry-Type Transformers	1	12	24
7.2.2	Liquid-Filled Transformers	1	12	24
	Sampling	-	-	12
7.3	**Cables**			
7.3.2	Low-Voltage Cables	2	12	36
7.3.3	Medium- and High-Voltage Cables	2	12	36
7.4	**Metal-Enclosed Busways**	2	12	24
	Infrared Only	-	-	12
7.5	**Switches**			
7.5.1.1	Low-Voltage Air Switches	2	12	36
7.5.1.2	Medium-Voltage Metal-Enclosed Switches	-	12	24
7.5.1.3	Medium- and High-Voltage Open Switches	1	12	24
7.5.2	Medium-Voltage Oil Switches	1	12	24
7.5.3	Medium-Voltage Vacuum Switches	1	12	24
7.5.4	Medium-Voltage SF6 Switches	1	12	24
7.5.5	Cutouts	12	24	24
7.6	**Circuit Breakers**			
7.6.1.1	Low-Voltage Insulated-Case/Molded-Case CB	1	12	36
7.6.1.2	Low-Voltage Power CB	1	12	36
7.6.1.3	Medium-Voltage Air CB	1	12	36
7.6.2.1	Medium-Voltage Oil CB	1	12	36
	Sampling	-	-	12
7.6.2.2	High-Voltage Oil CB	1	12	12
	Sampling	-	-	12
7.6.3.1	Medium-Voltage Vacuum CB	1	12	24
7.6.4.1	Extra-High-Voltage SF6	1	12	24

Suggested Monthly Frequency of Maintenance

Source: MTS-2005 NETA

Section	Description	Visual	Visual & Mechanical	Visual & Mechanical & Electrical
7.7	**Circuit Switchers**	1	12	12
7.8	**Network Protectors**	12	12	24
7.9	**Protective Relays**			
	Electromechanical	1	12	12
	Electronic	1	12	12
7.10	**Instrument Transformers**	12	12	36
7.11	**Metering Devices**	12	12	36
7.12	**Regulating Apparatus**			
7.12.1.1	Step-Voltage Regulators	1	12	24
	Sample Liquid	-	-	12
7.12.1.2	Induction Regulators	12	12	24
7.12.2	Current Regulators	1	12	24
7.12.3	Load-Tap-Changers	1	12	24
	Sample Liquid	-	-	12
7.13	**Grounding Systems**	2	12	24
7.14	**Ground-Fault Protection Systems**	2	12	12
7.15	**Rotating Machinery**			
7.15.1	AC Motors	1	12	24
7.15.2	DC Motors	1	12	24
7.15.3	AC Generators	1	12	24
7.15.4	DC Generators	1	12	24
7.16	**Motor Control**			
7.16.1.1	Low-Voltage Motor Starters	2	12	24
7.16.1.2	Medium-Voltage Motor Starters	2	12	24
7.16.2.1	Low-Voltage Motor Control Centers	2	12	24
7.16.2.2	Medium-Voltage Motor Control Centers	2	12	24
7.17	**Adjustable Speed Drive Systems**	1	12	24
7.18	**Direct-Current Systems**			
7.18.1	Batteries	1	12	12
7.18.2	Battery Chargers	1	12	12
7.18.3	Rectifiers	1	12	24
7.19	**Surge Arresters**			
7.19.1	Low-Voltage Devices	2	12	24
7.19.2	Medium- and High-Voltage Devices	2	12	24

Suggested Monthly Frequency of Maintenance Source: MTS-2005 NETA				
Section	**Description**	**Visual**	**Visual & Mechanical**	**Visual & Mechanical & Electrical**
7.20	**Capacitors and Reactors**			
7.20.1	Capacitors	1	12	12
7.20.2	Capacitor Control Devices	1	12	12
7.20.3.1	Reactors – Dry-Type	2	12	24
7.20.3.2	Reactors- Liquid-Filled	1	12	24
	Sampling	-	-	12
7.21	**Outdoor Bus Structures**	1	12	36
7.22	**Emergency Systems**			
7.22.1	Engine Generator	1	2	12
	Functional Testing	-	-	2
7.22.2	Uninterruptible Power Systems	1	12	12
	Functional Testing	-	-	2
7.22.3	Automatic Transformer Switches	1	12	12
	Functional Testing	-	-	2
7.23	**Telemetry/Pilot Wire SCADA**	1	12	12
7.24	**Auto. Circuit Reclosers & Line Sectionalizers**			
7.24.1	Automatic Circuit Reclosers, Oil/Vacuum	1	12	24
	Sample	-	-	12
7.24.2	Automatic Line Sectionalizers, Oil	1	12	24
	Sample	-	-	12
7.27	**EMF Testing**	12	12	12

The following matrix is to be used as a multiplier with the above schedule based on equipment condition and reliability. Specific condition, criticality, and reliability must be determined to correctly apply the matrix. Application of the matrix, along with the culmination of historical testing data and trending, should provide a quality electrical preventive maintenance program.

Maintenance Frequency Matrix				
		Equipment Condition		
		Poor	Average	Good
Equipment Reliability Requirement	Low	1.0	2.0	2.5
	Medium	0.50	1.0	1.5
	High	0.25	0.50	0.75