

Electrical Equipment Maintenance Frequencies - Based on NETA MTS-2015 Guideline on Maintenance of Electrical Systems

Thermal Infrared Analysis of Electrical Equipment			
Legend: x = a test or inspection should be performed - = testing not required			
Section	Type of Equipment	Tests to be performed	Multiply these values by the factor in the frequency matrix
		Infrared thermography while the equipment is in service and carrying a load	Frequency in Months
7.1.A.7.3	Switchgear and Switchboard Assemblies	x	12
7.2.1.1.A.5.3	Transformer, Dry Type, Air-Cooled, Low-Voltage, Small	x	12
7.2.1.2.A.7.3	Transformer, Dry Type, Air-Cooled, Large	x	12
7.2.2.A.8.3	Transformer, Liquid-Filled	x	12
7.3.2.A.2.3	Cables, Low-Voltage, 600-Volts Maximum	x	-
7.3.3.A.3.3	Cables, Medium and High-Voltage	x	12
7.4.A.3.3	Metal-Enclosed Busways	x	12
7.5.1.1.A.8.3	Switches, Air, Low-Voltage	x	12
7.5.1.2.A.9.3	Switches, Air, Medium-Voltage, Metal-Enclosed	x	12
7.5.1.3.A.8.3	Switches, Air, Medium and High Voltage, Open	x	12
7.5.2.A.11.3	Switches, Oil, Medium-Voltage	x	12
7.5.3.A.8.3	Switches, Vacuum, Medium-Voltage	x	12
7.5.4.A.8.3	Switches, SF6, Medium-Voltage	x	12
7.5.5.A.5.3	Switches, Cutouts	x	24
7.6.1.1.A.6.3	Circuit Breakers, Air, Insulated-Case/Molded-Case	x	12
7.6.1.2.A.10.3	Circuit Breakers, Air, Low-Voltage Power	x	12
7.6.1.3.A.11.3	Circuit Breakers, Air, Medium-Voltage	x	12
7.6.2.A.13.3	Circuit Breakers, Oil, Medium and High Voltage	x	12
7.6.3.A.11.3	Circuit Breakers, Vacuum, Medium-Voltage	x	12
7.6.4.A.13.3	Circuit Breakers, SF6	x	12
7.7.A.6.3	Circuit Switchers	x	12
7.8.A.10.3	Network Protectors, 600-Volt Class	x	12
7.10.1.A.4.3	Instrument Transformers, Current Transformers	x	12
7.10.2.A.4.3	Instrument Transformers, Voltage Transformers	x	12
7.10.3.A.4.3	Instrument Transformers, Coupling-Capacitor Voltage Transformers	x	12
7.11.1.A.2.3	Metering Devices, Electromechanical and Solid-State	x	12
7.12.1.1.A.7.3	Regulating Apparatus, Voltage, Step-Voltage Regulators	x	12
7.12.1.2.A.7.3	Regulating Apparatus, Voltage, Induction Regulators	x	12
7.12.3.A.6.3	Regulating Apparatus, Load Tap-Changers	x	12
7.15.1.A.4.3	Rotating Machinery, AC Induction Motor and Generators	x	12
7.15.2.A.5.3	Rotating Machinery, Synchronous Motor and Generators	x	12
7.15.3.A.4.3	Rotating Machinery, DC Motors and Generators	x	12
7.16.1.1.A.7.3	Motor Control, Motor Starters, Low-Voltage	x	12
7.16.1.2.A.5.3	Motor Control, Motor Starters, Medium-Voltage	x	12
7.17.A.8.3	Adjustable Speed Drive Systems	x	12
7.18.1.1.A.10.3	Direct-Current Systems, Batteries, Flooded Lead-Acid	x	12
7.18.1.2.A.9.3	Direct-Current Systems, Batteries, Vented Nickel-Cadmium	x	12
7.18.1.3.A.8.3	Direct-Current Systems, Batteries, Valve-Regulated Lead-Acid	x	12
7.18.2.A.5.3	Direct-Current Systems, Chargers	x	12
7.20.1.A.6.3	Capacitors and Reactors, Capacitors	x	12
7.20.3.A.5.3	Capacitors and Reactors, Reactors (Shunt and Current-Limiting), Dry Type	x	12
7.20.3.2.A.8.3	Capacitors and Reactors, Reactors (Shunt and Current-Limiting), Liquid-Filled	x	12
7.21.A.5.3	Outdoor Bus Structures	x	12
7.22.2.A.7.3	Emergency Systems, Uninterruptible Power Systems	x	12
7.22.3.A.8.3	Emergency Systems, Automatic Transfer Switches	x	12
7.24.1.A.6.3	Automatic Circuit Reclosers and Line Sectionalizers, Automatic Circuit Reclosers, Oil/Vacuum	x	12
7.24.2.A.6.3	Automatic Circuit Reclosers and Line Sectionalizers, Automatic Line Sectionalizers, Oil	x	12

(1) Prior to testing ensure that all requirements for safe access to the equipment are met [e.g., permits, safety hazard and risk analysis]

Frequencies are based on NETA MTS-2015 and may vary according to factors such as environment, condition, criticality, and reliability. Refer to NETA MTS for additional information.