

# NFPA 70B STANDARD MAINTENANCE INTERVALS



## OVERVIEW

NFPA 70B, Standard for Electrical Equipment Maintenance 2023 Edition, outlines the required schedule of maintenance for all types of electrical equipment. The frequency of maintenance is dictated by the condition of the equipment, following the concept of: “Condition-based Maintenance”.

## THE THREE EQUIPMENT CONDITION LEVELS



### CONDITION 1: LIKE-NEW CONDITION

**EQUIPMENT IN CONDITION 1 IS CONSIDERED TO BE IN EXCELLENT WORKING ORDER AND SAFE FOR STANDARD MAINTENANCE INTERVALS.**

- Appears in like-new condition
- Enclosure is clean, sealed, and dry (Free from Moisture)
- Maintenance performed in accordance with the Electrical Maintenance Program (EMP)



### CONDITION 2: MINOR ISSUES IDENTIFIED

**CONDITION 2 ASSETS ARE FUNCTIONAL BUT SHOW EARLY SIGNS OF DEGRADATION OR NON-CRITICAL ISSUES THAT COULD WORSEN IF LEFT UNADDRESSED.**

- Minor deviations in maintenance results compared to historical baselines
- Repairs or component replacements performed in previous cycles
- Predictive techniques identify non-urgent issues



### CONDITION 3: REQUIRES IMMEDIATE ATTENTION

**THIS CLASSIFICATION IS FOR EQUIPMENT AT HIGH RISK OF FAILURE OR THAT HAS BEEN NEGLECTED.**

- Missed past maintenance cycles
- Repeat issues across inspection periods
- Significant problems found via thermographic or ultrasonic testing

# MAINTENANCE INTERVALS:

## TABLE 9.2.2

PRODUCT	SCOPE OF WORK	CONDITION 1	CONDITION 2	CONDITION 3
All Equipment	Infrared Thermography	12 Months	12 Months	6 Months
Busways	Visual Inspection	60 Months	60 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
	Special	60 Months	36 Months	12 Months
Low-voltage Ground- fault Protection Systems	Visual Inspection	12 Months	12 Months	6 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	Reserved		
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
Medium-voltage ground-fault protection systems	Visual Inspection	12 Months	12 Months	6 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	Reserved		
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months

PRODUCT	SCOPE OF WORK	CONDITION 1	CONDITION 2	CONDITION 3
Medium-voltage Power Circuit Breakers	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
Molded-case/Insulated-case/Low-voltage Power Circuit Breakers	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
Motor Control Equipment	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
Panelboards and Switchboards	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months

PRODUCT	SCOPE OF WORK	CONDITION 1	CONDITION 2	CONDITION 3
Power and Distribution Transformers	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	Reserved		
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
Power Cables	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Mechanical Servicing	Reserved		
	Electrical Testing	60 Months	36 Months	12 Months
Protective Relays, Electromechanical	Visual Inspection	60 Months	24 Months	12 Months
	Cleaning	60 Months	24 Months	12 Months
	Lubrication	Reserved		
	Mechanical Servicing	60 Months	24 Months	12 Months
	Electrical Testing	60 Months	24 Months	12 Months
Protective Relays, Solid State and Microprocessor	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	Reserved		
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months

PRODUCT	SCOPE OF WORK	CONDITION 1	CONDITION 2	CONDITION 3
Substations	Visual Inspection	60 Months	12 Months	6 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months
	Special	60 Months	36 Months	12 Months
	Mechanical Checks	60 Months	36 Months	12 Months
Switches	Visual Inspection	60 Months	36 Months	12 Months
	Cleaning	60 Months	36 Months	12 Months
	Lubrication	60 Months	36 Months	12 Months
	Mechanical Servicing	60 Months	36 Months	12 Months
	Electrical Testing	60 Months	36 Months	12 Months