



Power Factor Correction Unit Maintenance Checklist

10 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Inspect capacitors for bulging, leakage, and end-of-life signs
- ☐ Check switching contactors for wear, pitting, and reliable operation
- ☐ Inspect connections and busbars for tightness and heat

Functional Checks

- ☐ Check the controller and confirm it is correcting to the target power factor
- ☐ Measure step currents to confirm each capacitor bank is healthy
- ☐ Verify cooling/ventilation and panel temperature are within limits
- ☐ Assess harmonic levels and any detuning reactors
- ☐ Check protective devices (fuses) for each capacitor step

Record Keeping

- ☐ Confirm the achieved power factor against the supplier's target
- ☐ Record power factor, step currents, and capacitor condition in the log

Maintenance Frequency

Annually

- Capacitor and contactor inspection
- Step current and power factor check
- Cooling and harmonic assessment
- Connection torque check