

Motor control center (MCC) quarterly maintenance checklist

A quarterly motor control center round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against NFPA 70B, NETA maintenance testing standards. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The facility electrician on the quarterly round, reading the MCC lineup energized without removing buckets. When: Every quarter, timed so motors are actually running and buckets read under load rather than sitting idle.

Bucket status

- ☐ Each bucket's indicators and disconnect position read
- Run, off and trip indication matched to what the process actually wants running, no starter chattering, no bucket tripped and quietly left down.
- 2 photos required
- ☐ Overload and heater settings checked against nameplate
- Overload dial or heater size compared to the motor's nameplate full-load amps, no setting bumped up to stop nuisance trips.
- 1 photo required

Heat and ventilation

- ☐ Lineup scanned for connection and starter heat
- Thermography or a non-contact scan across bucket faces and accessible terminations, no starter or lug reading hot against the rest of the lineup.
- 2 photos required
- ☐ Enclosure ventilation and filters clear
- Any cooling vents or filters on the MCC clear of dust and lint, room airflow reaching the lineup, no bucket running warm from a blocked vent.
- 1 photo required

Interlocks and safety

- ☐ Door and rack interlocks intact
- Bucket door interlocks operating and not defeated, handles engaging the disconnect, no bucket that can be opened or racked live.
- 1 photo required