

Busway quarterly maintenance checklist

A quarterly busway (bus duct) 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 walking the run on the quarterly round, scanning and looking with the busway energized.
When: Every quarter, walked under load so the joint scan catches a warm bolted connection while current is actually flowing.

Joins and heat

- ☐ Bolted joints scanned along the run
Thermography or a non-contact scan at each accessible joint and elbow, no single bolted connection reading hot against the adjacent housing. 2 photos required
- ☐ Housing checked for discoloration and heat marks
No paint discoloration, blistering or heat staining at joint covers, no burnt smell along the run. 1 photo required

Support and plug-ins

- ☐ Hangers, supports and alignment checked
Hangers tight and evenly spaced, run straight without sag or twist at joints, no support carrying a pipe or other load it wasn't meant to. 1 photo required
- ☐ Plug-in units seated and latched
Each plug-in fully stabbed, latched and interlocked, no unit hanging crooked off the run or leaking heat at the stab. 2 photos required

Moisture and grounding

- ☐ Run checked for moisture and condensation entry
No dripping pipe, roof penetration or condensation landing on the housing, no water staining at joints where a run passes below wet areas. 1 photo required
- ☐ Ground continuity connections intact
Grounding straps and bonding jumpers across joints landed and unbroken, no corrosion at the ground path along the run. 1 photo required