

Lightning protection system quarterly maintenance checklist

A quarterly lightning protection system 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 780, the applicable building code. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The facilities or roofing maintenance tech on the quarterly roof round, after other roof work has come and gone.
When: Every quarter, run with the roof and rooftop-equipment walk since it's roof work by other trades that most often knocks a conductor or terminal loose.

Air terminals and conductors

- ☐ Air terminals present, secure and plumb
Each terminal in place at its location, standing plumb, base secured to the roof, tip and fittings intact and not corroded through. 2 photos required
- ☐ Conductor routing and clips intact
Cable runs following their path, held by clips at intervals, no loose spans, sharp bends, breaks or lengths lying in ponding water. 2 photos required

Bonding

- ☐ Bonding connections at fittings observed
Bonding jumpers and connectors tight, no loose or missing hardware, dissimilar-metal fittings not showing heavy corrosion. 1 photo required
- ☐ Roof-mounted metal bonded into the system
Rooftop units, rails, ladders and metal curbs bonded where required, any new equipment since the last round checked for a connection. 1 photo required

Downleads and grounds

- ☐ Down-conductor routing and protection checked
Down conductors held to the wall, guard protecting the lower run, no loose clips, splices pulled apart or missing sections. 1 photo required
- ☐ Ground connections and test wells accessible
Ground connections and test wells located, lids intact and reachable, connections not buried, flooded or corroded away. 1 photo required