

Grounding and bonding system annual maintenance checklist

The annual grounding system service is the deep pass: the measurements, cleanings and tests a quarterly round doesn't reach. This checklist keeps the full service on record with the photos that make it defensible later. Work is commonly verified against NEC (NFPA 70), NETA maintenance testing standards. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The testing firm performs the ground-resistance measurement; the electrician observes, records the readings and inspects the accessible connections. When: Once a year, scheduled with the testing firm's visit so the resistance-to-ground measurement can be witnessed and logged rather than taken on faith.

Resistance test

- ☐ **Ground-resistance test observed and readings recorded**
The testing firm's measurement witnessed, method and readings recorded and compared against the prior year, any electrode out of the target range flagged. 2 photos required
- ☐ **Test points and electrodes accounted for**
Each driven electrode, ring or supplemental ground identified and measured, not just the one at the main service, results tied to a location. 1 photo required

Connection inspection

- ☐ **Accessible bonds and terminations inspected in detail**
Main bonding jumper, electrode connections and equipment bonds inspected and, where accessible, re-torqued; corrosion cleaned back to sound metal and documented. 2 photos required
- ☐ **System bonding continuity confirmed visually**
Bonding path traced through metal water, gas and structural connections, jumpers confirmed present across any point that could break continuity. 1 photo required