

Surge protective device (SPD) annual maintenance checklist

The annual surge protective device 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), manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The electrician on the annual electrical service, with the panel de-energized where the scope requires. When: Once a year, folded into the annual panel and breaker service so the SPD connections are checked while the enclosure is already open.

Protection status

- ☐ **Each phase indicator verified against live panel state**
Per-phase indication confirmed against the phases actually present at the panel, so a lost phase of protection can't hide behind a summary light. 2 photos required
- ☐ **Surge counter or event log read where fitted**
Event count or log noted against the prior year; a jump in events flagged as a site with a real surge problem to look into. 1 photo required

Connection integrity

- ☐ **All accessible connections inspected and re-torqued**
Line, neutral and ground terminals inspected and brought to the specified torque, no signs of heat, corrosion or arcing at any lug. 2 photos required
- ☐ **Enclosure, breaker and ground path confirmed intact**
Dedicated overcurrent device confirmed correct, ground/bonding conductor intact and unbroken, enclosure sealed against the environment it sits in. 1 photo required