



Lightning Protection System Maintenance Checklist

12 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Visually inspect air terminations, finials, and roof conductors for damage or corrosion
- ☐ Check down conductors are continuous, securely fixed, and undamaged at low level
- ☐ Inspect for damage or disconnection caused by recent roof or facade works
- ☐ Confirm the system still matches the design after any structural or plant changes
- ☐ Inspect earth pits for water ingress, damage, and accessibility

Functional Checks

- ☐ Inspect all test joints for corrosion and confirm they can be opened and remade
- ☐ Measure and record earth electrode resistance at each test point
- ☐ Verify overall system continuity between air terminations and earth
- ☐ Check bonding to metallic services, handrails, plant, and structural steel
- ☐ Check surge protection devices for status indication and end-of-life

Record Keeping

- ☐ Record all test values and compare against previous readings for trend
- ☐ Update the system log book and issue the inspection certificate

Maintenance Frequency

Annually

- Full visual inspection
- Earth resistance testing at all test points
- Continuity and bonding verification
- Certificate and log book update

Quarterly

- Visual check after any roof, facade, or plant works
- Inspect accessible conductors for damage