SITE survey. APP

SITE SURVEY REPORT

Lightning Protection Inspection

Prepared for	St Mary's PCC
Date	14 Oct 2026
Site	St Mary's Church
Prepared by	B. Doyle

FORM

Lightning Protection Inspection

1. System

Project	St Mary's Church: annual lightning protection test (completed example)
Client	St Mary's PCC
Site	St Mary's Church
Site address	Church Lane, Tewkesbury
Test date	14 Oct 2026
Engineer	B. Doyle, Spire Lightning Protection
Earth tester and calibration date	Earth tester ET-3, calibrated 14 Mar 2026
Lightning protection level (from the system records)	Not known (older BS 6651 system)
Has the building had a lightning strike since the last inspection?	No

> BS EN 62305-3 covers the inspection and maintenance of lightning protection systems. GOV.UK guidance for schools says it recommends inspection and testing at least annually, with joints and bonds checked for corrosion and electrical continuity. BS 6651, the earlier standard, was withdrawn in 2008. BS EN 62305-3, Annex E (Table E.2), gives the maximum intervals by lightning protection level: levels I and II, visual inspection every year and complete inspection every 2 years; levels III and IV, visual inspection every 2 years and complete inspection every 4 years. Critical systems need a complete inspection every year. Inspect after any lightning strike.

2. Visual inspection

Air terminations and roof conductors	OK
Down conductors and fixings	Defect
What is wrong?	North tower down conductor detached from two fixings about 6 m up, tape bowing out from the wall.
Joints, bonds and test clamps	OK
Bonding to roof plant and metalwork	OK
Surge protection devices	Not applicable
Drawings and test records available	OK

Visual inspection photos



Visual items with a defect	1

3. Earth electrodes

Resistance limit for each test point (ohms)	10

Earth electrodes 1: TP1 north tower

Test point	TP1 north tower
Test point position	Test clamp · 51.992420, -2.160270 (SO 89092 32675, ±4 m)
Resistance (ohms)	8.2
Previous reading (ohms)	7.9
Change since the last test (ohms)	0.3
Against the limit	Within the limit
Result	Pass

Earth electrodes 2: TP2 south aisle

Test point	TP2 south aisle
Test point position	Test clamp · 51.992180, -2.160110 (SO 89102 32648, ±4 m)
Resistance (ohms)	14.5
Previous reading (ohms)	9.1
Change since the last test (ohms)	5.4
Against the limit	Above the limit

Result	Fail
Notes	Reading up sharply on last year; clamp corroded. Clean and retest, then add a rod if still high.

Photo of the test point



Earth electrodes 3: TP3 east end

Test point	TP3 east end
Test point position	Test clamp · 51.992290, -2.159780 (SO 89125 32661, ±4 m)
Resistance (ohms)	6.4
Previous reading (ohms)	6.8
Change since the last test (ohms)	-0.4
Against the limit	Within the limit
Result	Pass

Earth electrodes 4: TP4 west porch

Test point	TP4 west porch
Test point position	Test clamp · 51.992310, -2.160490 (SO 89076 32663, ±4 m)
Resistance (ohms)	9.6
Previous reading (ohms)	9
Change since the last test (ohms)	0.6
Against the limit	Within the limit

Result	Pass
Test points recorded	4
Above the limit	1
Higher than last time	3
Highest reading (ohms)	14.5
Electrodes failed	1

> One or more test points read above the limit you entered. Check the clamp and the electrode, and record the repair or further testing below.

Overall result	Repairs needed
Summary of repairs needed	Refix the north tower down conductor. Clean the TP2 clamp and retest; if still above 10 ohms, add an earth rod at TP2.
Defects recorded	0
Urgent	0
Next inspection due	14 Oct 2027
Days to the next inspection	365
Site contact name	Revd A. Shaw
Site contact signature	
Completed by	B. Doyle
Signature	