OVERHEAD LINE CAMPAIGN CHANGES – DATA SHEET

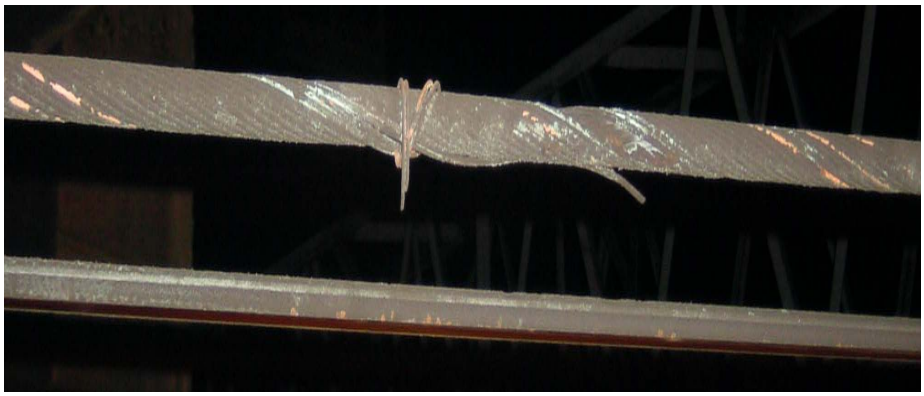
31 DAMAGE TO STRANDED CATENARY FROM SHORT CIRCUITS AT OVERBRIDGES

COMPONENT Stranded catenary at overbridges

PROBLEM

Bird strikes at overbridges cause short circuits from live equipment to earth. Where stranded catenary runs through the bridge, these short circuits cause conductor stranding with a risk of dewirement.

This campaign change is related to campaign changes 10, 32 and 33.



ACTION REQUIRED

1. Modify the catenary height so that the electrical clearance between the uplifted catenary and the bridge soffit is at least 600mm.
2. Where this not possible, replace the stranded catenary with solid contenary wire. For compound equipment, terminate the auxiliary catenary either side of the bridge face.
3. Where this is not possible, fit an approved design of secondary catenary wire insulation in accordance with manufacturers instructions.
4. Fit insulation to the bridge structure itself.

Do not use secondary insulation as a justification for infringng minimum electrical clearances.

Reference Information	
Ellipse standard job number	13031
Ellipse standard job description	Resolve bird strike risk at Overbridge
Category	Catenary wire
Priority	Yes
Types of OLE affected	Ex-DC; Mk1; Mk2.
Original equipment dates	1949-1970

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