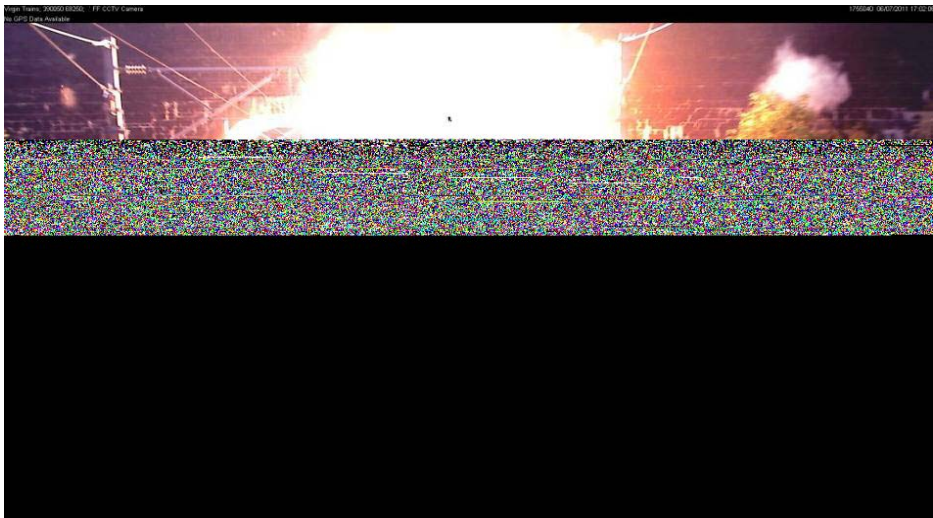


Ref:	NR/L2/ELP/27009/MOD C32
Issue:	1
Date:	03/12/2011
Compliance date:	03/03/2012
Page	1 of 2

OVERHEAD LINE CAMPAIGN CHANGES – DATA SHEET	
32	DAMAGE TO CONTENARY OR CONTACT WIRE FROM SHORT CIRCUITS AT TO CONCRETE / NON METALLIC OVERBRIDGES
COMPONENT	Solid contenary or contact wire at overbridges
PROBLEM	<p>Bird strikes at concrete and non-metallic bridges can lead to high resistance short circuits between live equipment and the bridge. If there is no direct connection to traction earth then there is a risk that the fault current will find a path to earth via the bridge reinforcement.</p> <p>The extended time taken to clear the fault will also cause a dewirement.</p> <p>This campaign change is related to campaign changes 10, 31 and 33.</p> 

Reference Information	
Ellipse standard job number	10032
Ellipse standard job description	Resolve bird strike risk at Non Met O/Br
Category	Catenary wire
Priority	Yes
Types of OLE affected	All
Original equipment dates	Before 2002

Ref:	NR/L2/ELP/27009/MOD C32
Issue:	1
Date:	03/12/2011
Compliance date:	03/03/2012
Page	2 of 2

OVERHEAD LINE CAMPAIGN CHANGES – DATA SHEET

32

DAMAGE TO CONTENARY OR CONTACT WIRE FROM SHORT CIRCUITS AT TO CONCRETE / NON METALLIC OVERBRIDGES

ACTION REQUIRED

1. Modify the bridge arrangement so that the electrical clearance between live equipment and the bridge soffit is at least 600mm.
2. Where this is not possible, fit copper flashover strips to the bridge soffit with at least one strip above each road that is equipped with OLE. Bond the strips to either the earth wire or traction return rail.
3. In addition, secondary insulation can be fitted to the contenary wire or the bridge structure itself.

Drawing UK1/A09/751 shows typical flashover strip arrangements.

