

## Overheating on Bussman Cam Master fuse holders used to replace Red Spot fuse holders

**Issued to:** All Network Rail line managers, safety professionals and RISQS registered contractors

**Ref:** NRA 18/01

**Date of issue:** 16/01/2018

**Location:** Wyke Cop, LNW

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### Overview

Distortion caused by incorrect fitting of a Bussman fuse is likely to have caused the insulation on the holder to fail, creating both localised burning and a fault to its supporting metal plate. This fault could create a touch voltage above 60V on the supporting metal plate.

The technical investigation into the failure of the burnt out Bussman Cam Master fuse holder showed that at some time earlier it had been used to replace a Red Spot fuse holder.

The photograph above clearly shows that the spacing between the connecting studs is very different on these two types of fuse holder.

The Bussman fuse holder had been fitted to the metal plate which had been previously drilled to accept the Red Spot fuse holder and it can be seen that the Bussman fuse holder connecting studs were splayed-out to fit.

### Immediate action required

- When accessing signalling power distribution equipment operating above 175V, members of staff and contractors must use procedure NR/SPS/S004 (see NR/L3/SIGELP/50002) to test for touch voltage on:
  1. metal covers on signalling power distribution equipment AND
  2. the metal plate on which Bussman fuse holders are mounted.
- The practice of direct replacement of Red Spot fuse holders for Cam Master fuse holders is prohibited without a mounting hole adjustment.
- Existing maintenance interventions and work instructions are being reviewed and amended to identify this potential defect.

Copies of Safety Advice are available on [Safety Central](#).