Winter Running - Protect your Current Collector with Morgan

Winter conditions such as wet and cold weather has an affect on the running conditions of an overhead current collector, as the rain and in particular ice creates a barrier between the carbon and overhead line.

This insulating barrier causes an arc to be drawn from the wire to the aluminum carrier. The metal carrier is damaged as a result of the arc, with the collector strip needing to be replaced before the end of the carbon life.

Causing increased running maintenance costs.

Morgan have been developed and tested an arc protection coating to reduce the damage caused when an electric arc is drawn to the metal carrier.

Resulting in prolonged collector strip life and reducing running and maintenance cost.

Figure 1 shows the Morgan carbon current collector with Morgan Arc Protection Coating.

Figure 1. Morgan carbon current collector with arc protection coating
Figure 2. No arc protection coating and severe arc damage to the metal carrier

Figure 3 shows the new collector strip with the Morgan Arc Protection Coating. The coating has protected the aluminum carrier from damage with arcs re-directed to hit the carbon preventing catastrophic damage and need to replace the strip.