

## High Potential Near Miss

### Background

On Wednesday 19th September 2018 at approximately 16:00, at the Scotch Corner/A66 interchange, a Mallatite 10m Post Top Lighting Column (8m above ground exposure) sheared at approximately 1.25m above ground level and came to rest across the carriageway at the Scotch Corner/A66 interchange.

The lighting column also had 3 off 1.7m x 1m x 40mm solar panels fitted to its upper extremities, which on investigation proved to exceed the wind loading capabilities for this particular type of column.

The failed column formed part of an Autonomous CCTV Outstation System. No damage/injury was sustained to property, other than the failed component, nor to any person(s) as a result of this incident.

### How did it happen?

Due to adverse weather conditions on the day the wind loading applied to the failed column caused it to shear above the upper welded swage line where the lower section (168.3mm diameter x 3.6mm thickness) 1.25m above ground meets the upper section and reduces to 114.3mm diameter and is only 3mm thick.

The original manufacturer specification was not complied with, due to miscommunications between various parties involved and the investigation highlighted other communication issues related to client/design approval.

### Recommendations

A review of the required reinstatement/remedial works was undertaken involving the client, designers and project management team, with the following recommendations tabled:

- Determine if the CCTV out station design (mast/cabinet and solar panel post) is an approved departure that has been incorporated into the design
- Review the suitability of the Autonomous CCTV Outstation System
- Conduct a HAZOP to determine current and future risk potential of the fuel cells
- Review staffing and communicate roles and responsibilities to those remaining on the project
- Identify effective and efficient means of communication with all parties for other HE/JV projects
- Ensure materials utilised in the works yet to be completed are in accord with approved MAR's

