CASE STUDY

CCS Network (ME) Ltd

Fiddlers Ferry 275 kV — Rainhill 1 circuit

SITE	CUSTOMEI	DATE OF APPLICATION
Fiddlers Ferry 275 kV, Rainhill 1, Warring	Nationa Grid	July 2010

POLLUTIO TYPE	EQUIPMEN	DURATION
Coal dust from the adjacen power station	3 wall bushing and 3 capacito voltage transfor 275 kV	4 days

The challenge

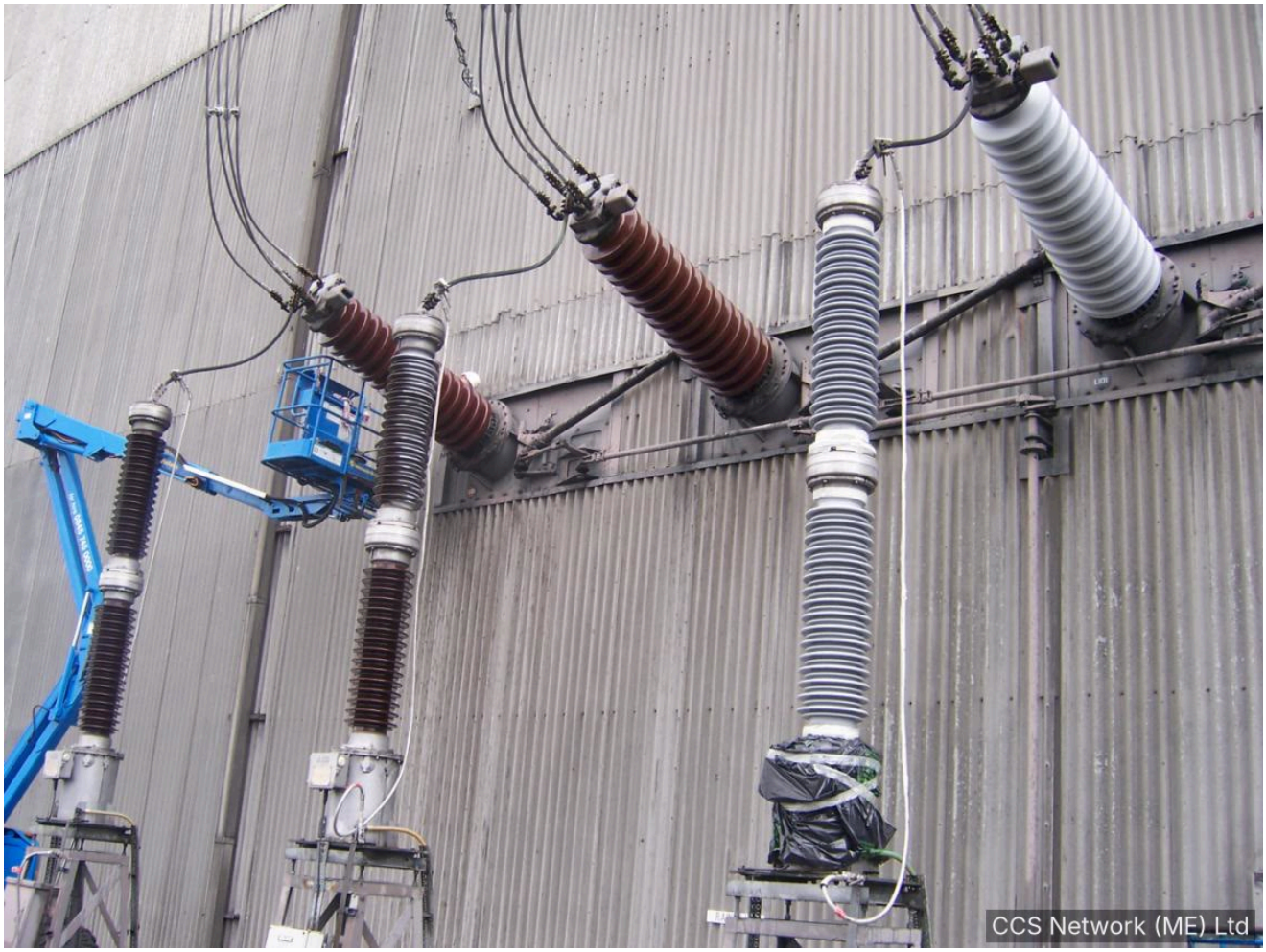
The substation stands next to the coal-fired station, and coal dust is the daily pollution on Rainhill 1. The wall bushings and capacitor voltage transformers had been coated with hydrocarbon grease. It was saturated, and a saturated grease does not stop a pollution flashover.

The solution

Four days in July 2010. Access was from mobile elevating work platforms, with tarpaulin under the work so the waste grease was caught. All of the hydrocarbon grease was removed, metal sections were shrink-wrapped, and RTV silicone HVIC was sprayed. Four days, and the grease programme on those six units was over.

The result

Adhesion and thickness were checked and recorded as sufficient. The circuit went back with a smooth light-grey hydrophobic film. That is the maintenance change: one coating, rather than another round of greasing under the cooling towers.



Before and after



After

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