

CASE STUDY:

Gas transfer lines

OVERVIEW

We are lucky enough to work with some fantastically forward-thinking companies, who are strong believers in preventative maintenance and catching and arresting issues, before they become problems. In 2020 we were asked to carry out quick response works on a boiler feed live gas transfer line, for a utilities company on a power station in Oldham. During a 6 monthly inspection, onset corrosion was found to be present on the line body, bolted flanges and valve bodies of the line and required quick response to rectify the problem, we conducted a site survey at the end of Jan 2020 and were on site 3 weeks later to fully clean, prepare and coat the 6 meter, 10" line and assorted flanges and valve, and to arrest the corrosion and further decay.

The Objective

The objective of the coating was to:

- To inhibit any further corrosion to the line and peripheries
- To perform treatment on a live gas transfer line, using passive preparation techniques (no blasting)
- To provide a long term, anti-corrosion coating to the line
- To arrest further degradation of the line and peripheries.

The Solution

The project was to provide immediate action to prevent the corrosion on the line worsening. We were unlucky enough to be called to action during the freak weather of early 2020, whereby record rainfall had fallen in the North West. The project had to be completed in accordance with application guidelines, meaning the substrate and environment had to be dry AND in accordance with local orders treating this as an immediate action requirement. Once we had a break in the weather, 2 technicians attended site for two days to hand prepare the surface, to expose and treat any corrosion on the line, flanges and valve head, which included digging out a flange section that was covered in shingle. Once the surface was fully dried, prepared and corrosion inhibitor applied, both sections of line were coated in Zerosion. Due to the action of burying on of the flanges in shingle, we applied a 1.5mm coating to the flange and downpipe, to provide stronger anti-abrasion protection.

Technical/Project Approach

Deliverable	Description
Manpower	2 x Zerosion technicians
Duration	2 Days
Material Used	Z-FP: 11 litres, Grey Z-AP 2 litres, Z-OE 100ml, Z-VP <10ml
Budget	On budget with no costing variation.
Equipment	Zerosion application equipment

Site issues

Weather was very wet and windy, due to storms.

Before Zerosion coating





After Zerosion coating



