

Viridor Runcorn, May 2021 Outage

Client: Viridor

Location: Runcorn

Start Date: May 2021

Outline Scope:

- Replacement of 1,592 superheater
- Tubes on Line 1 & 2
- Flow reversal reroute
- Common valve replacements
- Mechanical maintenance work
- NDT testing
- Grit Blasting



Client Overview

PJD Engineering were engaged as part of the current SLA agreement to carry out the major outage on lines 1 & 2 at the Runcorn EfW in May 2021. As one of the largest of its kind, Runcorn Energy from Waste facility treats approximately 1.1 million tonnes of waste generating up to 564 GWh of electricity, enough to power 150,000 homes in Liverpool, Cheshire & Greater Manchester.

Project Scope

Early receipt of the work scope was crucial in the pre-planning and preparation of the outage. The works were completed with circa. 40 tradesmen working days and nightshifts in an extremely dynamic and challenging environment.

- 771 tube replacements for Line 1 Superheater 2 & 3.
- 821 tube replacements for Line 2 Superheater 2 & 3.
- Line 1 & 2 joggle replacements.
- Flow reversal modification.
- The replacement of 32 small bore steam valves.
- Remove & replacement of rotary valves following overhaul.
- Mechanical maintenance including, but not limited to, I/D fan, screw conveyors, burners & ash system remedial works.

Our Results

PJD Engineering successfully completed this extensive scope of work over a 3-week period in a quality, safe and timely manner.

All works were supported by our lead SHEQ Advisor ensuring COVID compliance at all times. Lateral flow tests and temperature checks were completed daily prior to any work commencing.

3,382 welds of various sizes were completed in several areas of the plant ranging from 1/2” to 14”, all of which were carried out to BSEN 13480 using PJD code compliant WPS & WPQR documentation.

Key Performance Indicators

PJD achieved an average of 50 superheater inserts per shift, totaling 100 welds per day. 100% of welds were tested, achieving a low repair rate of 1.4% providing full traceability evidenced in QA packs.

PJD worked 14,083 man hours during the outage. 142 ALTR conversations were carried out during the outage which shows a commitment to safe working practices by the whole team.

