

SSE Slough Heat & Power

Client: Slough Heat & Power

Location: SSE

Start Date: March 2022

Outline Scope:

- Provide a rapid response team for any repair works.
- Repairs to Boiler 17 Superheater.
- Repairs to Boiler 17 Economiser.
- Hydrostatic pressure testing.



Client Overview

In August 2018, decommissioning and demolition works began to facilitate the development of a new ~50MW energy-from-waste facility, known as Slough Multifuel at the Slough Heat & Power site. Part of the existing Plant remains operational (Boiler 17) and continues to supply energy, water and heat to local customers.

Project Scope

PJD to provide a rapid response team for any immediately required repair works.

Call Out 1:

- Hydrostatic pressure test to identify faults, leaks or defects.
- Repair 23 tube leaks on the Superheater.
- Repair 5 tube leaks on the Economiser.
- Hydrostatic pressure test to verify successful repair.

Call Out 2:

- 2 tube repairs to the middle bank elements of the Superheater.

Our Results

Call Out 1:

As determined by the Hydrostatic Pressure Test, PJD identified 23 tube leaks on the Superheater and 5 tube leaks on the Economiser. PJD conducted the repairs completing 56 Butt Welds. A secondary hydrostatic pressure test was complete prior to handing back to the client to ensure Boiler 17 was ready to return to service.

Call Out 2:

On a separate occasion, repairs were carried out on 2 ruptured tubes in the Superheater. The affected areas were replaced with Inconel overlay clad pipework inserts & handed back to the client with little downtime.

Key Performance Indicators

PJD successfully executed the March repairs completing 58 butts over 703.5 man-hours, on both occasions returning Boiler 17 to the Operations Team at Slough Heat & Power ahead of schedule. All works were carried out to a high standard, with a 0% quality repair rate and a perfect Health & Safety record, reporting no accidents or incidents throughout the duration of both call outs.

