AUTOFLAME®
SERVICE & SUPPORT

Unit 1-2 Concorde Business Centre
Airport Industrial Estate
Wireless Road
Biggin Hill, TN16 3YN

+44 (0)1959 578 822
savings@autoflame.com
www.autoflameservice.com
Autoflame Service & Support

RJAH HOSPITAL
WEST, ENGLAND

- **Energy efficiency upgrade** project.
- **Autoflame Mk8 EGA Evo** and **Mk8 MM POD mounted** controls on **Limpsfield LCNO25** burners with **FGR pipework** to facilitate...
  - » **Low NO_x**
  - » **A high turndown ratio**
  - » **Emissions monitoring**

"Great workmanship. All engineers on-site & off-site were extremely helpful"

PROBLEM

- Our intial site survey identified the existing burners were outdated with a **low turndown ratio** and **higher than average O_2 values.**

GOALS

- **Increase efficiency & reliability** of the boiler plant
- **Reduce fuel consumption** and **cost**
- **Reduce O_2 & NO_x levels**
- **Carbon Reduction**
- To **monitor** and **log emissions**
- Ensure new burners operate with the lowest level of **excess air** to enable complete combustion

RESULTS

- **Emission Reductions:** Original emissions of between 5-9% O_2 were reduced to 3%.
- **NO_x Reductions** *MCPD Compliant*
- **Reduced Maintenance**
- **Energy Savings**

STRATEGY

- The existing burners were upgraded to **Limpsfield LCNO25s** to ensure a **high turndown ratio** (6:1) and to provide the most **efficient combustion** performance throughout the firing rate. 3% O_2 is achieved from low fire to high fire, with zero CO.
- A complete **Autoflame Mk8 combustion management system** was installed to ensure a **high combustion performance.** This is **safely maintained** by constantly error checking fuel valve, air damper and FGR valve positioning, 50 times every second.
- To ensure this level of combustion performance is maintained 24/7/365, the **Mk8 EGA Evo** was installed. The EGA triggers small changes to the air damper position to **trim** the performance and **maintain commissioned values.** This not only looks at O_2, but also CO_2 and CO, while monitoring and recording NO_x levels.

EQUIPMENT

Pre-Existing

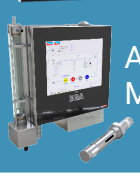
3 x 3200 kg/hr. Robey Loos steam boilers

3 x Unigas burners

Newly Installed

3 x Limpsfield LCNO25 burner with FGR and POD mounted Autoflame Mk8 MMs

Autoflame Mk8 DTI



Autoflame Mk8 EGA Evo