

CONCRETE MANUFACTURER

SOUTH EAST, ENGLAND

- Upgrade of existing GP Unigas burners deemed end of their life cycle to **Limpsfield Gas Fired burners** complete with POD mounted **Autoflame Mini Mk8** controls.
- Customer brief included syncing upgraded burners and controls with on-site **BMS system** to control heat demand.

PROBLEM

- Our team was initially called to site to provide **emergency support** as one of the client's burners was in a **state of disrepair**. Therefore, with only 2/3 boilers operating, the site load was not being fulfilled.
- **Low reliability** of current burners meant a longer-term solution was required to ensure **reduced downtime**.

GOALS

1. To get the faulty burner/boiler up to an **operational standard**, whilst meeting **efficiency goals** as a lead boiler (in line with **BG01 arrangement 3**).
2. **Reduce downtime** of the plant.

RESULTS

- ✓ **No downtime:** Hiring an emergency boiler whilst upgrade works were undertaken meant the plant was able to stay fully operational, which ensured site load was fulfilled.
- ✓ **Increased reliability:** Existing equipment was modernised to improve reliability and therefore unscheduled downtime.
- ✓ **Emissions monitoring & control:** With the installation of a Mk8 EGA Evo, emissions can be monitored and adjustments can be made via the Mk8 MM's 3-parameter trim to ensure efficient combustion.
- ✓ **Increased safety:** On-site training provided.

STRATEGY

- As a short-term solution, a temporary **hire boiler** was installed in order to **keep the site fully operational**. This enabled our engineers to perform urgent works on the existing boiler to bring all three boilers back to full operation, **without the need for downtime**.
- Following a site meeting, a **boiler & burner upgrade** was agreed as per our team's recommendations. The old, non-operational burner, was replaced with a **Limpsfield LCN123 burner** with **Autoflame controls & panel**. This allowed for new features including: **water level controls, TDS** and **bottom blowdown**.
- The job was predicted to take 4-weeks, however it was **completed ahead of schedule**.
- **Insurance inspection and NDT** works were carried out as part of the project upgrade.
- **On-site training** was given to operators to ensure a comprehensive and safe handover.

EQUIPMENT

- Pre-Existing**
- 1 x Cochran boiler
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 - 1 x Siemens controls panel
 - 2 x Cochran Thermax boiler
 - 2 x Hamworthy Electrotec burner (1 operational)

- Newly Installed**
- 1 x Limpsfield LCN123 burner
 - 1 x Autoflame Mk8 MM
 - 1 x Autoflame Mk8 EGA Evo