

# 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



### THE 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.

### THE 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. To reduce downtime of the plant.

### THE 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



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#### THE 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 MMs' 3-parameter trim to ensure efficient combustion.

**Increased safety:** On-site training provided.



#### THE EQUIPMENT

<b>Pre-Existing</b>	2 x Cochran Thermax boiler
1 x Cochran boiler	2 x Hamworthy Electrotec burner (1 operational)
1 x Cochran burner	1 x Siemens controls panel
<b>Newly Installed</b>	
1 x Limpsfield LCN123 burner	1 x Autoflame Mk8 EGA EVO
	1 x Autoflame Mk8 MM

