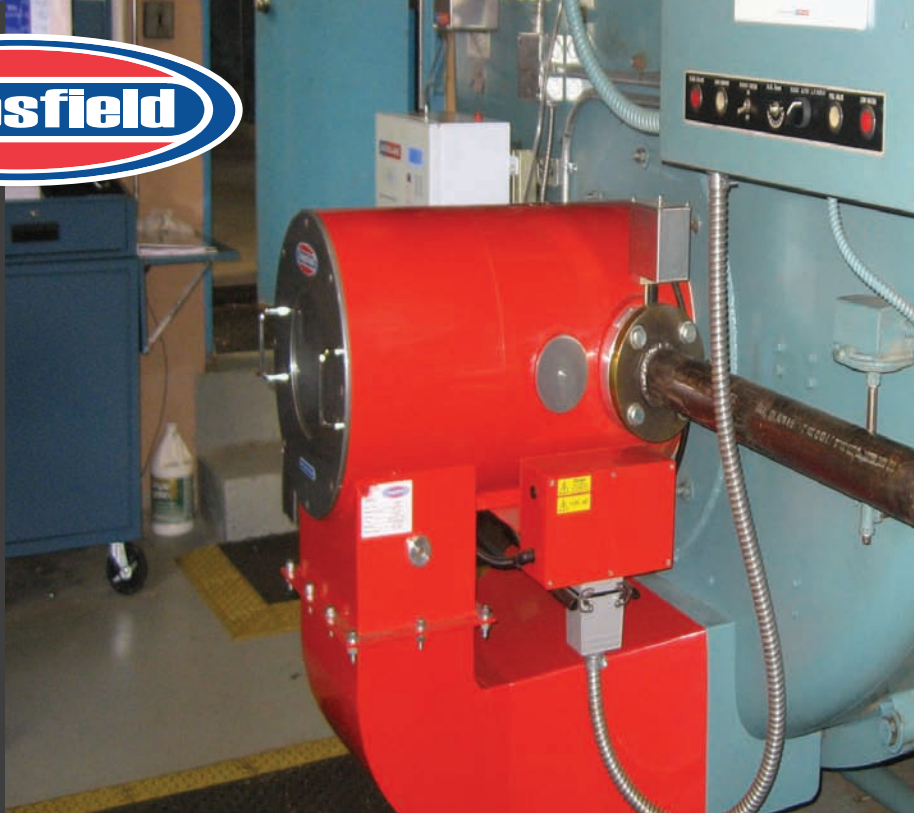




contract report



Customer:
Millipore



Location:
Bedford, MA, USA

Boiler Type:
Cleaver brooks 300hp

Burner Model:
LCN36

Fuels:
Natural Gas

Fuel Savings:
31%

The scope of this project was to completely replace the antiquated and inefficient burners, and retrofit both Cleaver brooks 300Hp boilers with 2 high efficiency, low emission, low O2 Limpsfield LCN36 burners. This package would be complete with the existing ; Autoflame Mark 6 controller to provide micro modulation of air , fuel valves and dampers. EGA- Exhaust Gas Analyzer integrated to provide continuous combustion monitoring to the Mark 6 controller. DTI- Data Transfer interface will provide downloads of all combustion data.

This equipment would provide the following benefits:
Significant Natural Gas Fuel Savings.
Reduce Harmful Emission to the Environment.
Produce improved, stable, and consistent emission profiles.

This project was projected to save:
> 35,294.65 Therms/yr or 13.84 % of fuel consumption.
Millipore Corporation accepted our proposal and projected fuel savings, and placed an order for the 2 LCN36 burners.

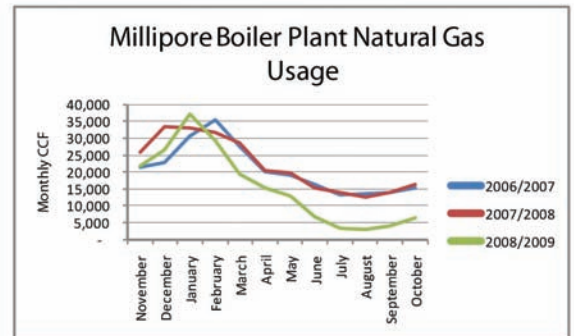


Figure 1: Natural Gas Usage Results

Fuel savings were evident immediately, and encouraged a savings analysis report to be carried out by GDS associates, Inc. Fuel saving studies had already been in progress since the Autoflame equipment had been installed 2 year previous. A 1 year study was completed to measure the fuel savings of the Limpsfield burner against the Cleaver brooks burners also studied for the previous 2 years. The fuel savings were remarkable! The study showed a Natural gas saving of 31% on average for the 1year period after the burner upgrade. This equated to a saving of 71,250 Therms/year. More than double the savings originally projected! With less than 3% O2 and 0ppm of CO throughout the whole burner firing range Millipore have achieved a payback of less than 1 year on their investment for Limpsfield burners. Millipore are continuing to make staggering fuel savings of \$101,896 annually!

"The fuel savings were remarkable....\$101,896 annually"

Quote "These boilers at Bedford MA, were in very good shape and were well taken care of. In other words we did not take poorly maintained equipment and install this equipment then claim big savings. So i would conclude this is a testimony of the design of your equipment, the expertise of the installers and the exact commissioning by Limpsfield. Great teamwork!! "

Paul Lukitsch - Regional Manager - Millipore Corporation

For more information on the Limpsfield burner range,
please do not hesitate to contact us.



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