



Customer:

Biotech Facility

Location:

Washington, USA

Boiler Type:

Hurst Boiler

Burner Model:

LCNO36

Fuel Fired:

Natural Gas

Diesel Oil

Tech Centre:

MacDonald- Miller

CONTRACT REPORT

Limpsfield High Performance Burner Exceeds Customers Expectations!!

A large Biotech facility in Everett Washington had a catastrophic failure of one of their critical steam boilers that serves the facility. MacDonald- Miller chose to use the Limpsfield burner due to the excellent combustion characteristics, superior engineering, and ease of installation.

The burner mounted control panel significantly reduced installation time and overall footprint. The boiler room is situated next to the offices so by supplying a noise attenuator with the Burner we helped to significantly reduce the noise to sub 80dB, which is an added benefit that the client did not expect.



Project Achievement:

1. Sub 3% O2 across the whole turndown modulating range (as high as 10:1 turndown)
2. Significantly reduced cycling time
3. A reduction in stack losses
4. The whole package which included a Boiler and Burner was completed within 3 days.

BURNER DIAGNOSTICS CHECK SHEET																	
Burner Model: LCNO36/200																	
Fuel type: NATURAL GAS																	
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	O2	CO2	CO	Stack Temp.	P1	P2	P3	P4	P5	P6
	Deg	Deg	Deg	Deg	Deg	Deg	Deg	%Vol	%Vol								
Open	90	90															
High	65	45						3	10	0	299 Spsi	35.9	33.5	24.6	23.4	14.4	
1	60	43.5						3	10	0	302 Spsi	36.5	33.7	24.6	23	14.1	
2	55	42.5						2.9	10.1	0	303 Spsi	36.7	34.1	24.7	22.3	13.6	
3	50	42						2.7	10.2	0	304 Spsi	37	34.9	24.7	21.3	13	
4	45	40						3	10	0	304 Spsi	37.2	35.8	24.7	19.9	12.5	
5	40	38						2.9	10.1	0	304 Spsi	37.4	35.6	24.6	17.8	12.3	
6	35	36						2.9	10.1	0	301 Spsi	37.6	35.9	24.7	15	11.1	
7	30	32.5						2.9	10.1	0	295 Spsi	38	36.7	24.8	10.7	9.3	
8	25	28.5						3	10	0	285 Spsi	38.6	37.9	24.8	6.6	6.6	
9	20	24.5						3	10	0	274 Spsi	39.2	38.9	24.8	3.7	4	
10	15	20						3	10	0	262 Spsi	39.7	39.7	24.4	1.8	2.3	
11	10	15.5			5.5			3	10	0	248 Spsi	39.7	40.1	25.6	0.5	0.9	
12																	
FGR Start																	
Golden Start																	
Low	2	10.5			5			3.7	9.6	0	234 Spsi	41.8	41.8	24.8	0	0	
Close	0	0			0												



The customer is extremely happy with the installation and is planning on further upgrades to other boilers on their campus.

Hi Boldizsar,
 This was a good project we completed in a week. Customer is very happy the burner runs great. With the LC burners I tend to get much better turn down than advertised. I think I'm close to 10:1 and I'm not candle sticking the burner. Thanks.
 Scott Gideon
 Service Technician- Industrial Boiler Group

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

Limpsfield Website: www.limpsfield.co.uk
 Tel: 00 44(0)1959 576 633

MacDonald-Miller Website: www.macmiller.com
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