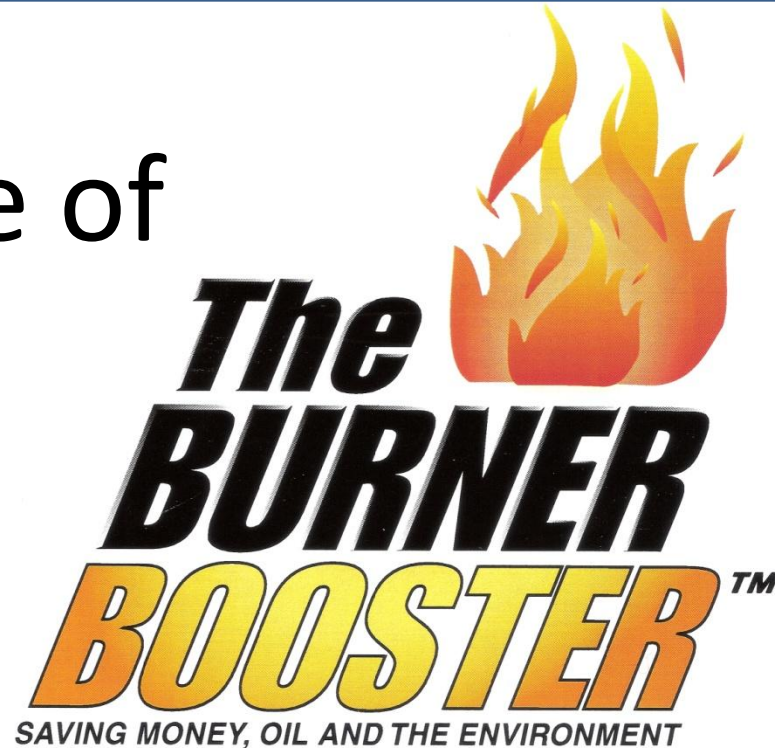




Designing and Manufacturing
Energy-Efficient Technologies

Home of



Demonstration Sites Performance Review

Energy Efficiency Solutions, LLC 1657 Washington Street Holliston, MA 01746-6698 (888) 337-0337

www.theburnerbooster.com

12-3-11*** Demo Sites*******

18 sites were developed over a 3.5 yr. period
these sites are more thoroughly monitored***

	CO	CO ₂	SO ₂	SO	NOx	CFM	Fuel used gal/day	Fuel savings	Stack temp.	Actual firing rate gph	% more run time
	PPM	%	PPM	PPM	PPM						
Corona Films											
Orig	38	11.6	47	340	90	790	17.8		460	4.17	
BB	1	13.6	68	21	82	380	12.6	29.21%	325	2.2	
Raw % reduction of emissions	97%	-17%	-45%	94%	9%	52%					
% reduction applying CFM reduction	99%	39%	25%	97%	53%			21.20%			23%
Total % reduction/day /same BTU output	81%	29%	19%	73%	40%						
Paint Project (season1)											
Orig	51	10.9	37	107	57	580	16.5		590	1.25	
BB w/#4	8	12.5	12	14	48	210	12.8	22.42%	420	0.94	
Raw % reduction of emissions	84%	-15%	68%	87%	16%	64%					
% reduction applying CFM reduction	90%	27%	79%	92%	46%			22.40%			1.5
Total % reduction/day/same BTU output	87%	26%	77%	88%	43%						
Orig	51	10.9	37	107	57	580	16.5		590	1.25	
season 2 BB w/#3	1	12.9	2	10	54	190	10.9	33.94%	445	0.82	
Raw % reduction of emissions	98%	-18%	95%	91%	5%	67%					
% reduction applying CFM reduction	99%	20%	96%	94%	36%			28.70%			0.13
Total % reduction/day/ same BTU output	99%	20%	96%	94%	36%						
Brooks Home-season 1.											
Orig	28	10.6	19	106	57	540	8.4		400	1.35	
BB (a)	3	12.9	22	35	83	290	5.8	31%	325	1.1	
Raw % reduction of emissions	89%	-22%	-16%	67%	-46%	46%					
% reduction applying CFM reduction	95%	44%	46%	85%	33%			31%			-10%
Total % reduction/ day/same BTU output	97%	45%	47%	88%	38%						
Orig	28	10.6	19	106	57	540	8.4		400	1.35	
season 3 BB (b)	2	12.3	23	21	108	290	5.6		322	1.08	
Raw % reduction of emissions	93%	-16%	-21%	80%	-89%	46%					
% reduction applying CFM reduction	97%	46%	44%	91%	12%			28.50%			10%
Total % reduction/ day/same BTU output	96%	47%	48%	93%	14%						

- Boiler sooted up above normal levels, sulfur soot being burned as well.
- % reduction of gases and fuel /degree day tested/aggrement of parties
- Total % reductions in lbs/day(CFD) of flue gasses.taken at base of stack; before regulator.
- Total % reductions in lbs/day EPA test of flue gasses.taken after air regulator.40%air dilution.

* All sites have had a repeated testing on a regular basis to evaluate consistent value.

** All site have a wide range of boiler size, methods of heating, that represent real life conditions.

*** Instrumentation used were EPA rated and non-EPA rated, some sites by 3ed party with simular results.

continued on the next page

12-3-11*** Demo Sites*******

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	CO	CO ₂	SO ₂	SO	NOx	CFM	Fuel used gal/day	Fuel savings	Stack temp.	Actual firing rate gph	% more run time
	PPM	%	PPM	PPM	PPM						
Town of Needham, MA											
Orig	85	7.9	41	265	67	990	42.8		655	4.97	10%
BB	6	10.9	25	23	87	475	28.18	34.16%	322	3.86	
Raw % reduction of emissions	93%	-38%	39%	91%	-30%	52%					
% reduction applying CFM reduction	96%	28%	68%	95%	32%			34.10%			
Total % reduction/day/ same BTU output	98%	30%	70%	96%	35%						-2%
Mass. MCI - Dorm C Space heating - Boiler 1											
Orig	32	11	45	153	86	875	20.6		575	2.18	
BB	6	12.4	38	65	95	620	13.7	33.50%	438	1.43	
Raw % reduction of emissions	81%	-13%	16%	58%	-10%	29%					
% reduction applying CFM reduction	95%	23%	75%	88%	68%			32.50%			3%
Total % reduction/day/same BTU output	94%	21%	73%	86%	64%						
NH - Wastewater treatment plant											
Orig	48	9.8	26	650	46	1690	55.6		470	4.1	
BB	9	11.2	65	55	76	590	35.8	35.61%	320	2.6?	
Raw % reduction of emissions	81%	-14%	-150%	92%	-65%	65%					
% reduction applying CFM reduction	88%	21%	-63%	94%	-8%			31.70%			
Total % reduction/day/same BTU output	87%	20%		93%	-7%						2%
Villa Augustina School											
Boiler 1 retest after cleaning	Orig	89	10.9	189	499	175	9600	185	628	14.5	
	BB (b)	8	12.7	185	28	163	3280	139	31%	565	9.5
Raw % reduction of emissions	91%	-17%	2%	94%	7%	66%					
% reduction applying CFM reduction	94%	23%	36%	96%	39%			31%			
Total % reduction/day / BTU outputf	78%	21%	13%	91%	41%						24%
Easter Seals											
Orig	32	10.5	22	187	110	2,750	62		516	7.8	
BB	5	11.7	6	5	85	970	48.3	28.70%	284	5.3	
Raw % reduction of emissions	84%	-11%	73%	97%	23%	65%					
% reduction applying CFM reduction	90%	28%	82%	98%	50%			28.70%			
Total % reduction/day / BTU outputf	88%	27%	81%	96%	48%						2%
TOTAL~ AVERAGE Reductions-Demo sites.	87%	21%	58%	89%	35%			28.20%			
Jan 17-18 2012 testing											
CK Lab results of EPA Total Reductions											
NO.2 fuel oil		65%	15%	36%		18%		28.00%	23%		
NO. 4 fuel oil/ BRB-57		65%	11%	28%		16%		30.00%	32%		
B-100 100% bio fuel		60%	9%	35%		5%		26%	21%		

Boiler sooted up above normal levels, sulfur soot being burned as well.

% reduction of gases and fuel /degree day tested/aggrement of parties

Total % reductions in lbs/day(CFD) of flue gasses.taken at base of stack; before regulator.

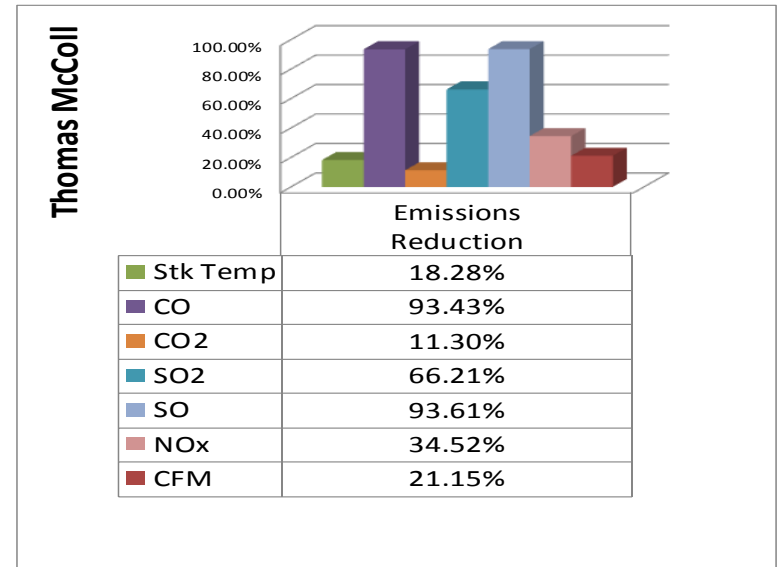
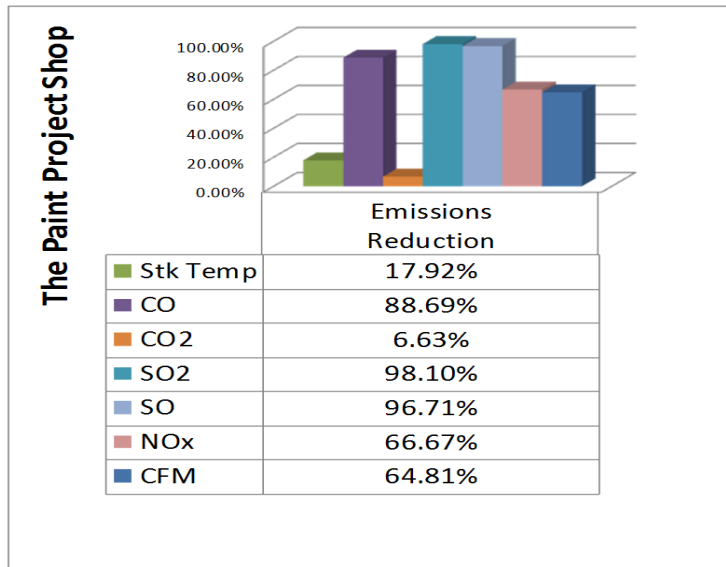
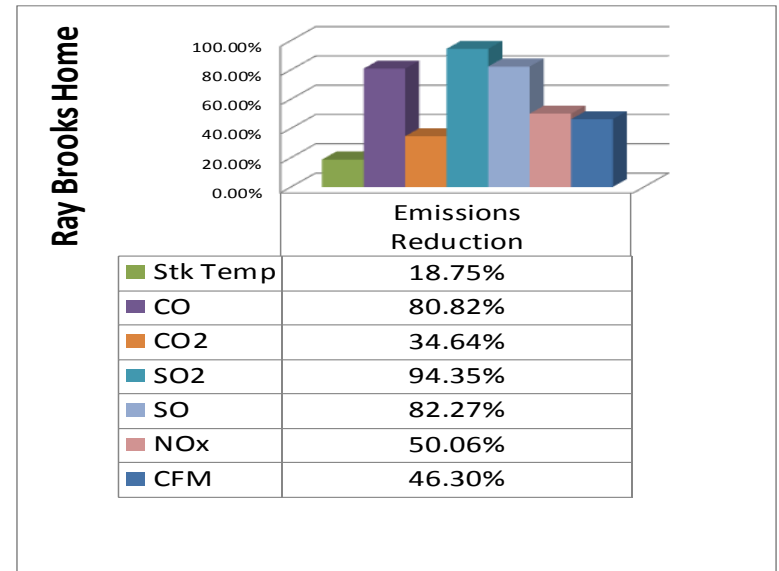
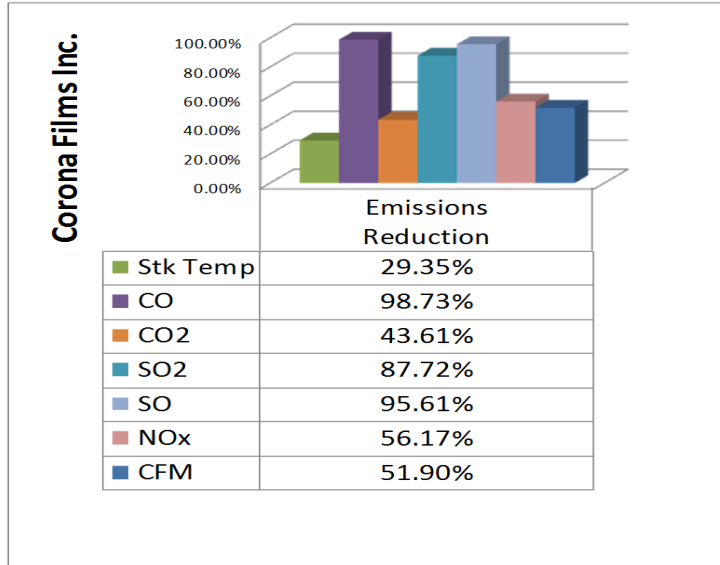
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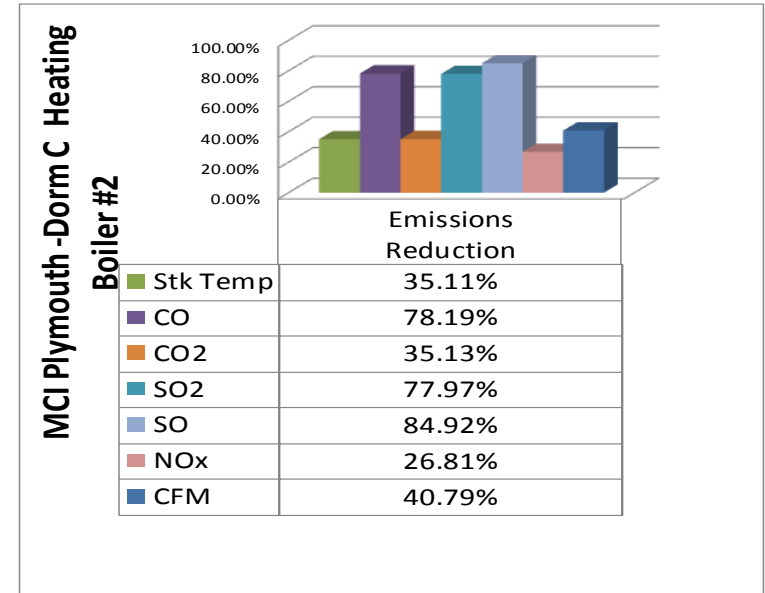
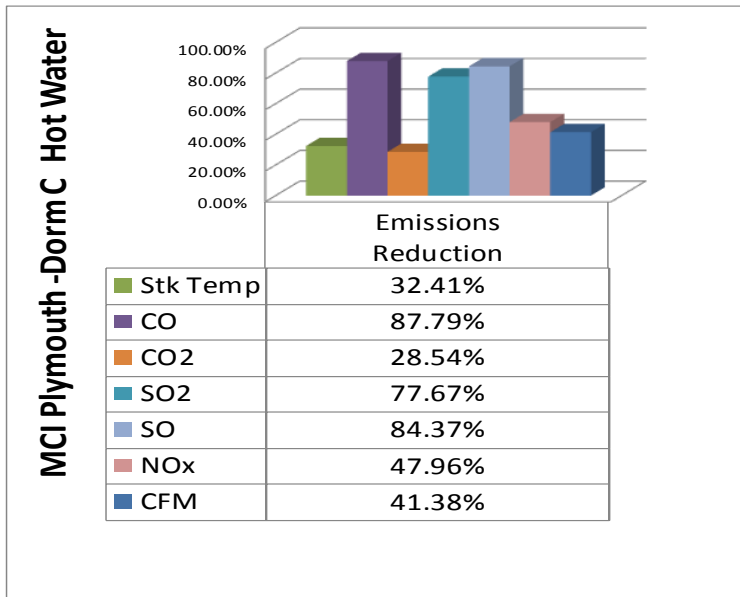
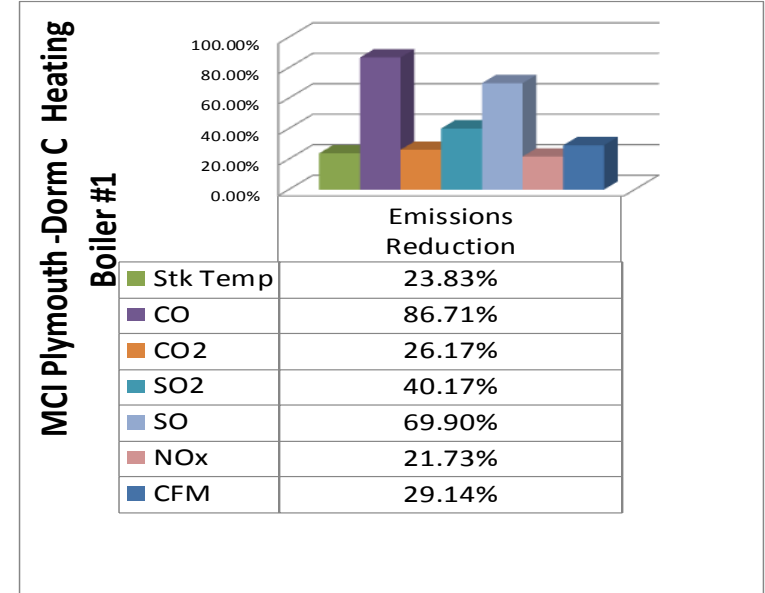
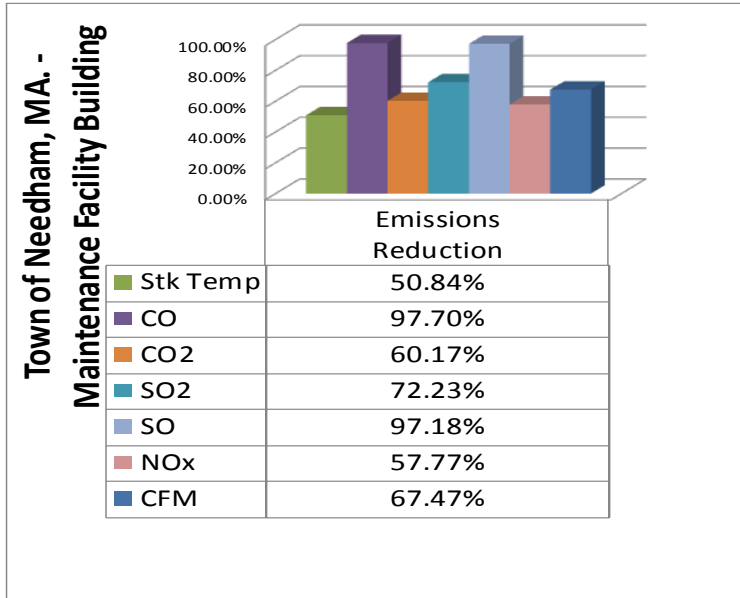
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Emission Test Results

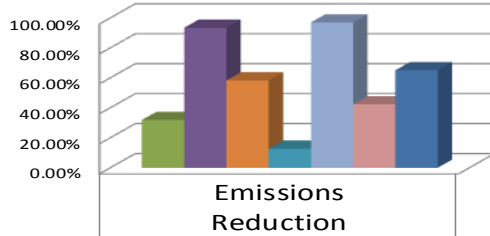


Emission Test Results



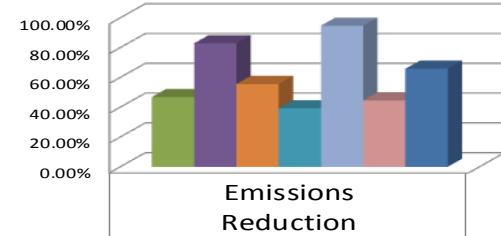
Emission Test Results

City Of Manchester, NH Waste Water Treatment Plant



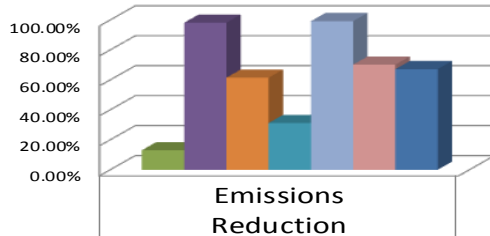
Stk Temp	31.91%
CO	93.45%
CO2	58.32%
SO2	12.72%
SO	97.05%
NOx	42.32%
CFM	65.09%

MA Department of Youth Services



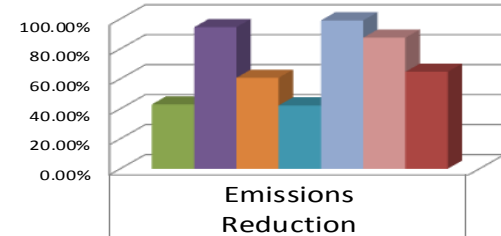
Stk Temp	46.88%
CO	82.93%
CO2	55.63%
SO2	39.32%
SO	94.75%
NOx	44.61%
CFM	65.87%

Villa Augustina School



Stk Temp	13.06%
CO	98.16%
CO2	61.47%
SO2	31.25%
SO	99.22%
NOx	70.19%
CFM	67.19%

Easter Seals Society



Stk Temp	43.02%
CO	94.49%
CO2	60.74%
SO2	42.28%
SO	99.06%
NOx	87.49%
CFM	64.73%