Report by Louis Fontaine of the Maine Environmental Protection

Manufacturer		OkoFEN	**OkoFEN**
Boiler Name		AutoPellet	**AutoPellet**
Boiler Model #		PES56	**PES56**
EN 303.5 Test Report Number		BLT Reference Number: 048/06	**BLT Reference Number: 048/06**

	Units	European Value	Maine Value	Maine Units
Rated heat output	kW	56	**191,184**	**Btu/hr**
Tested nominal heat output	kW	67	0.229	MMBtu/hr
Tested partial heat output	kW	18.5	0.063	MMBtu/hr

Calorific value of fuel, anhydrous (higher heating value)	MJ/kg	19	
Calorific value of test fuel (lower heating value)	MJ/kg	17.1	

4.19 kWh/kg = 33876000 Joules
33.876 MJ

Efficiency at nominal output	%	93.6%	86.7%	*Enter values as a decimal. E.g. 89.6% = .896*
Efficiency at partial output	%	91.2%	84.5%	
Annual Delivered Efficiency	%	**91.4%** *using lower heating value*	**84.7%** *using higher heating value*	

Dust Content: separated (use the higher of the nominal or the minimum dust analysis)				
Hour 1 Value	mg	20.8		
Hour 2 Value	mg	10.4		
Hour 3 Value	mg	12		
Hour 4 Value	mg	5.4		
Hour 5 Value	mg	11.2		
Hour 6 Value	mg	9.4		
Maximum Hourly Dust Emission Rate		*0.0208*	**0.021**	**g/hr**

At minimum fire, worst hour. Minimum fire for OkoFEN = 33% nominal.

Dust (particulate) emissions at Nominal output	mg/MJ	9	0.022	**lb/MMBtu** $_{\text{heat output}}$
Organic Carbon emissions at Nominal output	mg/MJ	1	0.002	
Dust (particulate) emissions at Minimum output	mg/MJ	12	0.031	**lb/MMBtu** $_{\text{heat output}}$
Organic Carbon emissions at Minimum output	mg/MJ	1	0.003	
Average Annual Particulate Matter Emission			0.032	**lb/MMBtu** $_{\text{heat output}}$

Particulate emissions reported at EPA proposal accuracy (Conversion added by MESys)

Dust (particulate) emissions at Nominal output	mg/MJ	9	0.02	**lb/MMBtu** $_{\text{heat output}}$
Organic Carbon emissions at Nominal output	mg/MJ	1	0.00	
Dust (particulate) emissions at Minimum output	mg/MJ	12	0.03	**lb/MMBtu** $_{\text{heat output}}$
Organic Carbon emissions at Minimum output	mg/MJ	1	0.00	
Average Annual Particulate Matter Emission			0.03	**lb/MMBtu** $_{\text{heat output}}$