

SUMMARY TABLE 1

PARTICULATE EMISSIONS RESULTS

RUN #	BURN RATE KG/HR DRY	METHOD 5G PARTICULATE EMISSIONS		EPA ADJUSTED METHOD 5G PARTICULATE EMISSIONS		Fuel Load
		<u>TW LNS</u> GRAMS/HOUR	GRAMS/HOUR	A. GRAMS/HOUR	GRAMS/HOUR	
⑥	.91	10.25	2.173	.22	.32 μm	3.47 L 14.6/17°
2	.96	10	5.849			7.88 L 14.7/17°
④	1.08	10.5	2.711			4.16 L 14.1/17°
③	1.41	13-	1.989			3.22 D 15.1/16.4
①	2.87		1.481			2.52 D 15.5/16.5
+5	1.09	11	2.375			3.73 D 15./16.5

Weighted particulate emission average over four runs (6, 4, 3, and 1): 3.38 grams per hour.*

* Run 2 not used in calculation because it was set at a setting lower than the final modified minimum setting (run 6).

+ Run 5 conducted with unit blower off for optional fan confirmation. Run was not used in weighted average calculation.

Pacific Energy

Project # [REDACTED]

Models: Super LE (formerly known as the Super (Series E)), aka: Super Heritage, Super Classic, and Alderlea T5

Type: Residential Non-Catalytic Wood Fired Heater

March 31, 2017

EPA Test Method 28R for Certification and Auditing of Wood Heaters

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Results:

The weighted average emission rate is **1.8 g/hr** with a weighted average efficiency of **71.3%** and a weighted average CO of **129.0 g/hr**. The Pacific Energy Fireplace Products Ltd. Model Super LE non-catalytic wood heater meets the 2020 PM emission standard of ≤ 2.0 g/hr per CFR 40 part 60, §60.532 (b).

Summary Table:

Category 2 < 1.00 kg/hr		Category 2 0.80 to 1.25 kg/hr		Category 3 1.25 to 1.90 kg/hr		Category 4 Maximum	
Run Number	1C	Run Number	2	Run Number	3	Run Number	4
Emissions Rate g/hr	2.42	Emissions Rate g/hr	1.21	Emissions Rate g/hr	1.90	Emissions Rate g/hr	1.39
Burn Rate kg/hr	0.94	Burn Rate kg/hr	1.13	Burn Rate kg/hr	1.50	Burn Rate kg/hr	2.95
BTU/hr (HHV)	12,518	BTU/hr (HHV)	15,210	BTU/hr (HHV)	20,539	BTU/hr (HHV)	38,177
CO g/hr	153.35	CO g/hr	146.06	CO g/hr	136.37	CO g/hr	38.59
OA Efficiency (HHV)	70.8%	OA Efficiency (HHV)	71.6%	OA Efficiency (HHV)	72.7%	OA Efficiency (HHV)	68.8%