

Comparison of Condar measurement to EPA method 5G-3

OXYGEN DRAFT??

	Run Data										
	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8	Run 9	Run 10	Run 11
Particulate Catch, gm	0.0155	0.0200	0.0191	0.0231	0.159	0.0424	0.0275	0.5814	0.0534	0.0908	0.1325
Length of test, Hr	2	2	2	2	2.66	2.66	1.833333	0.833333	2.6666	2.6666	3.83333
Orifice dH, "H2O	0.10	0.16	0.2	0.2	0.12	0.12	0.13	0.13	0.13	0.13	0.13
Stack Temperature, °F	360.4	240.7	248.7	254.8	322.47	319.59	507.417	295	335.94	292.176	236.916
Average Stack Oxygen, %	11.79	17.40	13.82	14.07	14.20	14.15	13.11	14.32	16.47	16.78	15.54
Average Stack CO2, %	9.11	3.49	7.00	6.68	6.38	6.39	7.61	5.93	4.11	3.82	4.77
Average Stack CO, %	0.00	0.02	0.15	0.29	0.64	0.73	0.36	1.30	0.64	0.59	1.18
Dry Burn-Rate, Kg/hr	3.35	1.94	2.46	2.48	1.36	2.12	3.37	2.13	1.31	1.29	0.98
Condar gm/dry kg fuel	0.50	1.25	0.52	0.66	4.77	1.26	1.10	53.52	2.34	4.17	3.13
Condar g/hr	1.69	2.43	1.29	1.63	6.48	2.67	3.71	114.00	3.07	5.37	3.07
Dilution Factor	2.29	5.98	2.95	3.06	3.12	3.09	2.68	3.17	4.72	5.07	3.90
Stack Temp Factor	0.80	0.87	0.86	0.86	0.82	0.82	0.74	0.84	0.81	0.84	0.87
5G-3 , g/hr	1.61	2.49	1.07	1.59	5.41	2.66	3.63	39.46	2.76	5.05	4.59
Absolute Error g/hr	0.08	0.06	0.22	0.04	1.07	0.01	0.08	74.54	0.31	0.32	1.52

Note: Runs 5 and 11 experienced oxygen analyzer drift. Run 8 was all smoke and no flames.

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No FLAME
All SMOKE