

EPA Certification Test Report

The following models are EPA certified under the following attached test report:

F5100

	<u>Model #</u>
Wood Stoves	F5100
Wood Inserts	n/a
Wood Fireplaces	n/a
Pellet Stoves	n/a
Pellet Inserts	n/a

Full US Environmental Protection Agency (“EPA”) certification test reports have been reported to the EPA. Test reports may contain sensitive, confidential business information which has been specifically excluded and/or redacted from this publicly posted test report.

FPI Fireplace Products International LTD.

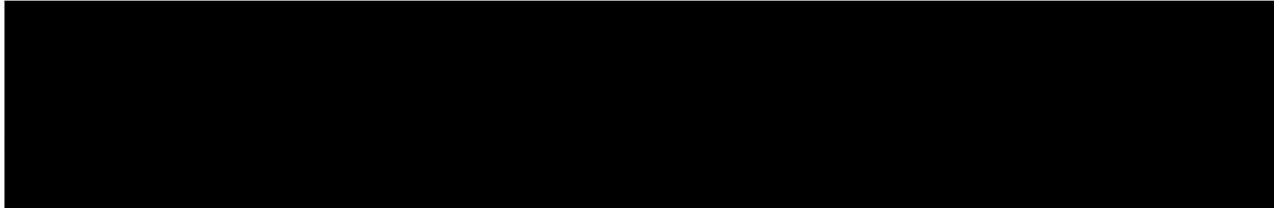
**Model # F5100
EPA Certification Testing
Project # 015-S-002-1**

Prepared by Dirigo Laboratories, Inc.
August 8, 2012



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Affidavit:



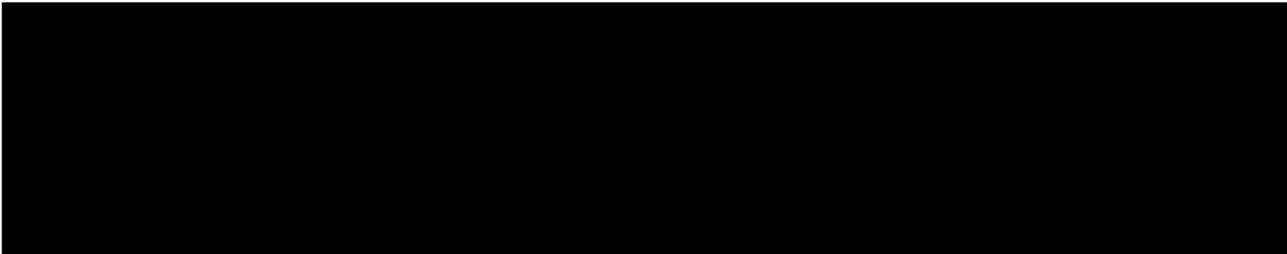
The following people were associated with the testing, analysis and report writing associated with this project.

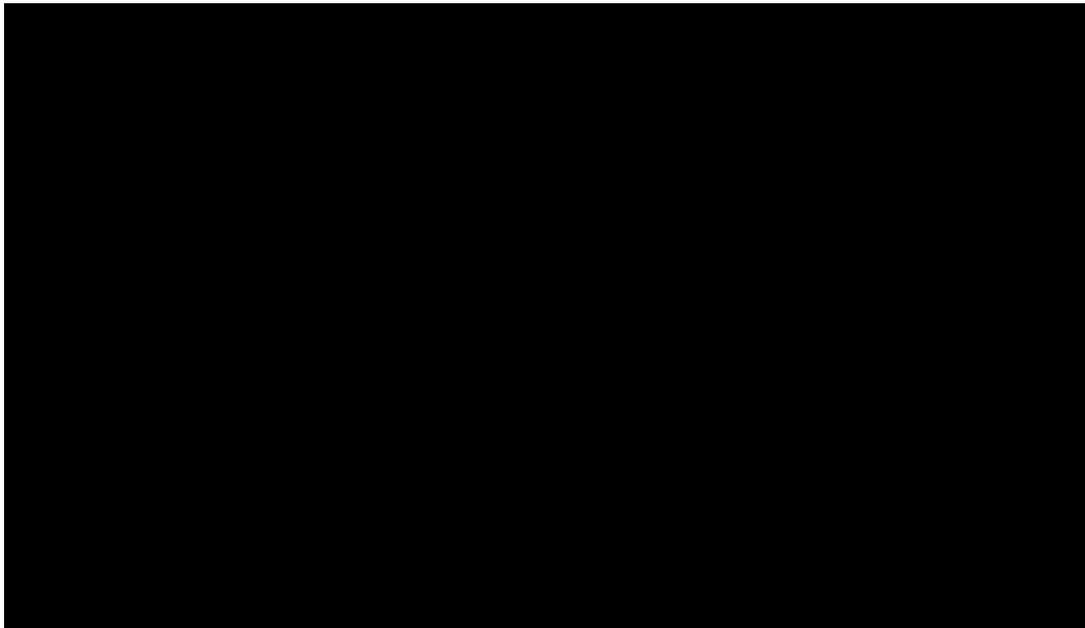
John Steinert, President


Signature Date 8/8/2012

Gary Nelke CMfgE, Vice-President


Signature Date 8/8/2012





Results:

The overall weighted average emission rate based on the 4 certification runs is **1.46 g/hr**. (See Table 1 & Figure 1)

Results									
Category 2 0.8 to 1.0 Kg/hr		Category 2 .80 to 1.25 kg/hr (1.76 to 2.76 lbs/hr)		Category 3 1.25 to 1.90 kg/hr (2.76 to 4.19 lbs/hr)		Category 4 Maximum Burn Rate		Category 2 Fan Confirmation	
Date	7/30/2012	Date	7/31/2012	Date	8/1/2012	Date	8/1/2012	Date	8/2/2012
Run Number	EPA 1	Run Number	EPA 2	Run Number	EPA 3	Run Number	EPA 4	Run #	EPA 5
Emission Rate	.7 g/hr	Emission Rate	1.1 g/hr	Emission Rate	1.7 g/hr	Emission Rate	2.6 g/hr	Emission Rate	0.85 g/hr
Burn Rate	0.85 kg/hr	Burn Rate	1.08 kg/hr	Burn Rate	1.40 kg/hr	Burn Rate	3.04 kg/hr	Burn Rate	1.16kg/hr

Table 1



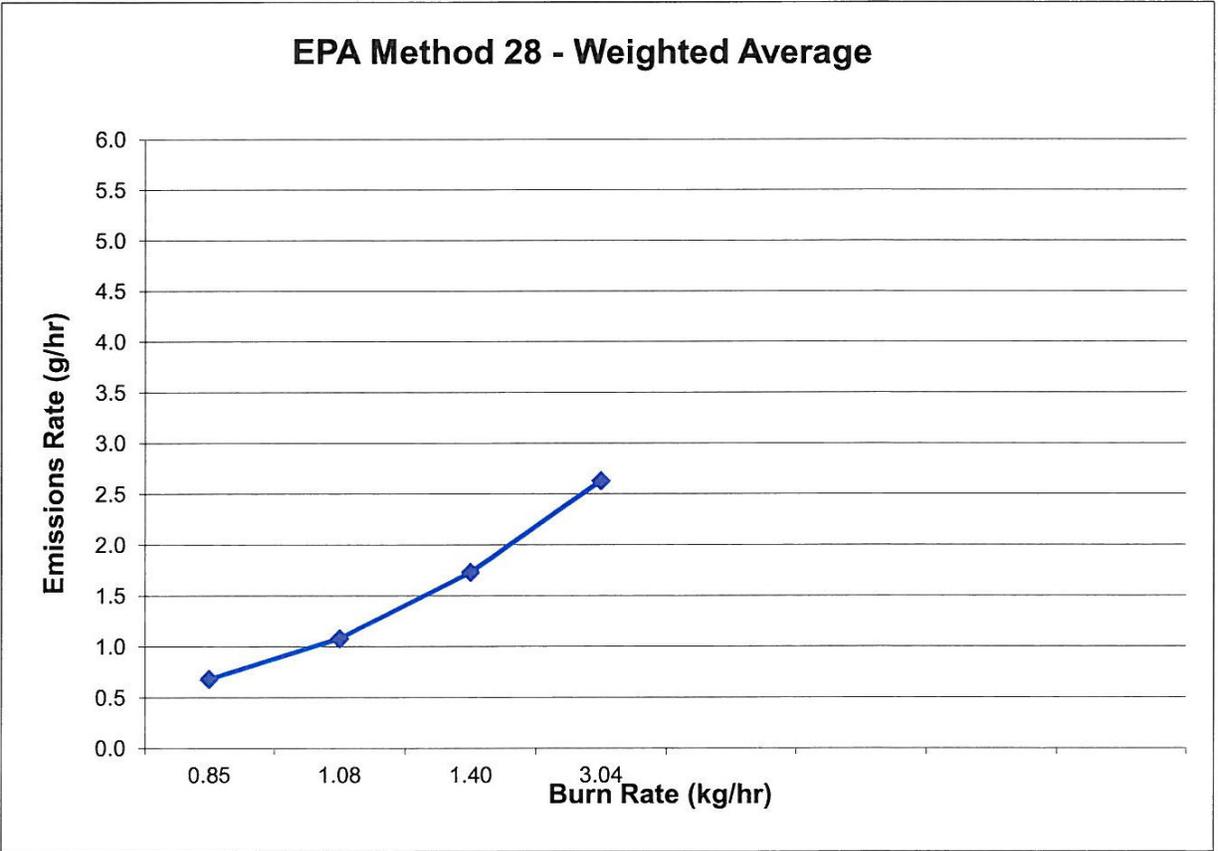


Figure 1: Weighted Average





Figure 3: Front



Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (in-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
0639	0	45.2	0.000	712	201	261	269	473	3218	363.2	471	75	-1.106	1050	1.33	1.17	0.61	34.08
0649	10	43.5	-1.707	675	211	210	266	412	3216	364.9	348	74	-1.106	990	1.55	1.35	0.70	34.07
0659	20	41.9	-1.548	666	213	189	263	383	3218	344.8	336	74	-1.106	955	1.75	1.51	0.78	34.06
0709	30	40.4	-1.476	667	211	196	261	368	3218	338.4	324	74	-1.105	916	1.93	1.66	0.86	34.05
0719	40	39.0	-1.470	660	206	193	258	360	3218	335.7	329	74	-1.105	1007	2.10	1.80	0.93	34.05
0729	50	37.8	-1.139	649	204	192	259	351	3218	331.1	316	74	-1.105	972	2.25	1.93	0.99	34.03
0739	60	36.9	-0.951	609	201	180	255	343	3218	319.7	306	74	-1.105	959	2.40	2.04	1.05	34.04
0749	70	36.0	-0.844	595	196	189	252	336	3218	314.6	300	74	-1.104	952	2.53	2.15	1.11	34.04
0759	80	35.1	-0.903	582	196	191	249	336	3218	310.7	306	74	-1.105	976	2.66	2.26	1.16	34.03
0809	90	34.2	-0.905	592	194	191	251	336	3218	312.9	297	75	-1.104	944	2.77	2.35	1.21	34.03
0819	100	33.3	-0.867	577	193	195	252	336	3218	311.1	299	75	-1.104	967	2.88	2.44	1.26	34.03
0829	110	32.3	-1.000	568	191	197	257	339	3218	316.7	315	75	-1.105	1024	2.98	2.52	1.30	34.03
0839	120	31.4	-0.867	585	190	201	263	343	3218	318.4	302	75	-1.104	948	3.08	2.60	1.34	34.03
0849	130	30.6	-0.978	600	186	202	264	347	3218	320.3	311	75	-1.105	1025	3.16	2.67	1.38	34.02
0859	140	29.3	-1.160	632	186	208	278	346	3218	330.0	315	75	-1.105	937	3.24	2.73	1.41	34.02
0806	150	28.2	-1.120	621	185	212	300	345	3218	332.6	306	75	-1.105	915	3.31	2.79	1.44	34.02
0819	160	27.2	-0.938	605	183	214	321	344	3218	333.2	300	76	-1.104	930	3.37	2.84	1.46	34.02
0829	170	26.6	-0.695	560	181	214	329	340	3218	325.0	284	76	-1.104	865	3.43	2.89	1.49	34.02
0839	180	25.9	-0.621	534	180	211	305	338	3218	313.5	280	76	-1.104	878	3.48	2.93	1.51	34.02
0849	190	25.2	-0.715	529	179	211	286	344	3218	309.6	286	76	-1.104	913	3.52	2.97	1.53	34.02
0859	200	24.3	-0.932	575	178	219	278	353	3218	320.8	306	75	-1.104	1009	3.57	3.00	1.55	34.02
1009	210	23.4	-0.897	624	180	225	282	360	3218	334.2	309	76	-1.104	1034	3.60	3.03	1.56	34.02
1019	220	22.6	-0.746	597	182	235	293	370	3218	335.5	289	76	-1.104	867	3.63	3.05	1.57	34.02
1029	230	22.0	-0.644	548	184	239	298	375	3218	328.7	285	76	-1.104	859	3.66	3.07	1.58	34.02
1039	240	21.3	-0.676	530	185	239	299	374	3218	325.6	286	75	-1.104	898	3.68	3.08	1.59	34.02
1049	250	20.7	-0.613	526	187	241	302	374	3218	326.0	281	76	-1.104	898	3.70	3.10	1.60	34.02
1059	260	20.1	-0.616	522	189	237	289	376	3218	324.4	278	76	-1.104	890	3.71	3.12	1.61	34.02
1109	270	19.5	-0.544	513	192	236	294	375	3218	321.9	273	76	-1.103	863	3.72	3.12	1.61	34.02
1119	280	19.0	-0.578	504	195	231	293	372	3218	318.8	271	76	-1.103	854	3.73	3.13	1.61	34.02
1129	290	18.4	-0.618	519	199	226	294	368	3218	321.2	278	76	-1.103	893	3.73	3.14	1.62	34.01
1139	300	17.7	-0.621	522	204	221	296	367	3218	322.2	274	76	-1.103	893	3.74	3.14	1.62	34.02
1149	310	17.1	-0.593	524	211	222	294	368	3218	323.9	274	76	-1.103	891	3.73	3.14	1.62	34.02
1159	320	16.6	-0.552	517	218	223	293	368	3218	323.8	273	76	-1.103	876	3.73	3.13	1.62	34.02
1209	330	15.9	-0.678	525	225	227	287	368	3218	328.2	278	76	-1.103	912	3.72	3.13	1.61	34.02
1219	340	15.3	-0.624	544	232	226	299	368	3218	333.9	281	76	-1.103	932	3.71	3.12	1.61	34.02
1229	350	14.6	-0.652	561	238	229	306	370	3218	340.7	282	77	-1.103	948	3.70	3.11	1.60	34.02
1239	360	14.1	-0.668	562	243	230	310	373	3218	343.5	278	77	-1.103	932	3.69	3.10	1.60	34.02
1249	370	13.6	-0.481	537	248	230	312	375	3218	340.6	271	77	-1.103	890	3.67	3.08	1.59	34.02
1259	380	13.2	-0.430	507	254	227	314	372	3218	334.9	284	77	-1.103	847	3.65	3.07	1.58	34.02
1309	390	12.8	-0.404	489	259	226	315	367	3218	331.1	255	77	-1.103	819	3.63	3.05	1.57	34.02
1319	400	12.4	-0.365	472	263	222	318	363	3218	327.5	249	77	-1.102	783	3.61	3.03	1.56	34.02
1329	410	12.1	-0.333	454	266	219	321	359	3218	323.9	239	77	-1.102	742	3.59	3.02	1.55	34.01
1339	420	11.7	-0.311	436	270	217	324	355	3218	320.4	232	77	-1.102	716	3.56	3.00	1.54	34.02
1349	430	11.5	-0.245	418	274	214	328	351	3218	316.9	222	77	-1.102	677	3.54	2.98	1.53	34.02
1359	440	11.3	-0.228	400	277	211	328	346	3218	312.3	215	77	-1.101	636	3.51	2.96	1.52	34.02
1409	450	11.1	-0.186	382	279	207	327	343	3218	307.7	207	78	-1.101	595	3.49	2.93	1.51	34.02
1419	460	10.9	-0.191	364	281	204	328	338	3218	302.9	198	77	-1.101	554	3.46	2.91	1.50	34.02
1429	470	10.7	-0.180	360	283	199	326	334	3218	298.3	190	78	-1.101	525	3.44	2.89	1.49	34.02
1439	480	10.6	-0.157	338	284	197	324	330	3218	294.4	195	77	-1.100	504	3.41	2.87	1.48	34.03

Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (In-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
1449	490	10.4	-0.156	331	285	194	320	327	3218	291.5	181	78	-1.100	498	3.39	2.85	1.47	34.02
1459	500	10.2	-0.149	327	286	192	315	326	3216	289.9	179	78	-1.100	497	3.36	2.83	1.46	34.02
1508	510	10.1	-0.160	322	286	192	307	332	3216	287.6	179	78	-1.100	490	3.34	2.81	1.45	34.02
1518	520	9.9	-0.163	317	286	192	301	328	3216	284.8	177	78	-1.100	481	3.31	2.79	1.44	34.02
1529	530	9.8	-0.151	314	286	193	298	323	3216	283.0	175	78	-1.100	474	3.28	2.77	1.43	34.02
1539	540	9.6	-0.162	312	287	196	295	320	3216	281.9	175	78	-1.100	470	3.26	2.75	1.42	34.02
1548	550	9.4	-0.171	310	288	202	282	316	3216	282.0	175	78	-1.100	473	3.23	2.73	1.41	34.02
1559	560	9.3	-0.186	313	290	211	291	317	3216	284.4	178	78	-1.100	484	3.21	2.71	1.40	34.02
1609	570	9.1	-0.193	317	292	216	292	321	3216	287.2	181	78	-1.100	490	3.18	2.68	1.38	34.02
1619	580	8.9	-0.203	321	293	213	289	328	3216	288.8	183	78	-1.100	500	3.16	2.66	1.37	34.02
1629	590	8.6	-0.210	324	295	212	285	339	3216	290.8	185	78	-1.100	508	3.13	2.64	1.36	34.02
1639	600	8.4	-0.251	328	296	213	284	349	3216	294.0	188	78	-1.101	528	3.11	2.62	1.35	34.02
1649	610	8.1	-0.254	335	297	216	283	361	3216	298.3	193	78	-1.101	548	3.08	2.60	1.34	34.03
1659	620	7.9	-0.248	339	299	220	283	371	3216	302.1	193	78	-1.101	544	3.05	2.58	1.33	34.03
1709	630	7.6	-0.253	340	301	226	283	376	3216	305.3	197	78	-1.101	548	3.03	2.56	1.32	34.03
1719	640	7.4	-0.234	340	304	230	283	384	3216	308.2	195	79	-1.101	539	3.00	2.54	1.31	34.03
1729	650	7.2	-0.193	335	305	234	282	389	3216	309.1	190	78	-1.100	508	2.97	2.51	1.30	34.03
1739	660	7.0	-0.196	328	307	232	280	386	3216	306.6	186	78	-1.100	492	2.95	2.49	1.28	34.03
1749	670	6.8	-0.177	319	308	232	277	388	3216	304.3	184	78	-1.100	478	2.92	2.47	1.27	34.03
1759	680	6.4	-0.177	337	312	198	255	354	3216	291.2	334	79	-1.105	535	3.01	2.55	1.31	34.03
1809	690	47.9	-16.307	561	312	175	236	335	3216	323.9	451	79	-1.107	975	3.23	2.72	1.40	34.02
1819	700	48.1	0.230	566	307	171	236	325	3216	326.8	319	78	-1.105	942	3.41	2.87	1.48	34.02
1829	710	48.6	-1.547	569	299	167	237	315	3216	323.7	318	78	-1.105	939	3.58	3.01	1.55	34.02
1839	720	45.2	-1.401	607	289	167	238	311	3216	322.5	318	79	-1.105	984	3.74	3.14	1.62	34.02
1849	730	43.7	-1.505	625	278	169	240	306	3216	323.7	332	78	-1.105	1012	3.68	3.25	1.68	34.02
1859	740	42.2	-1.515	637	267	173	244	305	3216	325.2	326	79	-1.105	989	4.00	3.35	1.73	34.01
1869	750	40.8	-1.390	642	257	180	252	309	3216	327.9	321	79	-1.105	975	4.12	3.45	1.78	34.01
1919	760	39.8	-1.006	591	248	181	263	309	3216	318.5	293	79	-1.104	928	4.22	3.54	1.82	34.01
1929	770	39.0	-0.749	560	241	178	260	304	3216	308.4	282	79	-1.104	907	4.32	3.62	1.86	34.01
1939	780	38.2	-0.790	545	234	175	255	299	3216	301.6	281	79	-1.104	908	4.41	3.69	1.90	34.01
1949	790	37.3	-0.914	568	229	176	254	297	3216	304.7	292	79	-1.104	917	4.49	3.75	1.94	34.01
1959	800	36.2	-1.072	604	225	180	258	300	3216	313.4	306	79	-1.104	988	4.56	3.82	1.97	34.01
2009	810	35.2	-1.071	628	220	185	265	305	3216	320.7	304	79	-1.104	978	4.63	3.87	1.99	34.01
2019	820	34.2	-0.985	606	216	186	279	309	3216	319.2	291	79	-1.104	897	4.69	3.92	2.02	34.01
2029	830	33.3	-0.852	572	212	185	266	308	3216	312.7	275	79	-1.103	858	4.74	3.95	2.04	34.01
2039	840	32.6	-0.752	578	208	188	265	307	3216	312.8	280	80	-1.103	859	4.79	4.00	2.06	34.01
2049	850	31.7	-0.877	589	205	194	262	314	3216	318.9	289	80	-1.103	914	4.83	4.03	2.08	34.01
2059	860	30.8	-0.844	590	202	195	262	318	3216	319.2	287	79	-1.103	939	4.86	4.06	2.06	34.01
2109	870	29.7	-1.137	615	199	197	262	321	3216	324.8	314	80	-1.105	1010	4.89	4.08	2.10	34.01
2119	880	28.2	-1.474	631	196	207	295	328	3216	331.2	328	80	-1.105	1011	4.91	4.10	2.11	34.01
2129	890	26.8	-1.481	629	194	212	300	340	3216	335.3	313	80	-1.104	908	4.93	4.11	2.12	34.01
2139	900	25.6	-1.156	620	193	209	303	350	3216	335.0	288	80	-1.104	866	4.93	4.12	2.12	34.01
2149	910	24.6	-0.984	603	191	208	303	354	3216	331.8	282	80	-1.104	862	4.93	4.12	2.12	34.01
2158	920	23.6	-1.015	595	190	207	301	357	3216	330.1	282	80	-1.103	848	4.93	4.11	2.12	34.01
2209	930	22.6	-1.000	590	189	212	299	356	3216	329.2	284	80	-1.104	860	4.92	4.11	2.12	34.01
2219	940	21.7	-0.872	599	188	216	302	357	3216	332.5	281	80	-1.103	866	4.91	4.10	2.11	34.01
2229	950	21.1	-0.607	563	186	223	305	365	3216	328.6	268	80	-1.103	878	4.89	4.08	2.10	34.01
2238	960	20.7	-0.447	551	187	226	305	366	3216	323.1	257	80	-1.103	842	4.87	4.07	2.10	34.01
2249	970	20.3	-0.387	502	187	218	304	356	3216	313.4	248	80	-1.102	802	4.85	4.05	2.09	34.00

Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (in-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
2259	960	19.9	-0.361	479	189	214	301	348	3218	306.1	242	79	-1.102	768	4.83	4.03	2.08	34.00
2309	980	19.6	-0.316	468	191	210	299	344	3218	300.3	231	79	-1.102	727	4.81	4.01	2.07	34.01
2319	1000	19.3	-0.273	434	194	206	296	339	3218	293.5	223	79	-1.102	698	4.78	3.99	2.06	34.01
2329	1020	19.1	-0.236	413	197	203	290	334	3218	287.5	216	80	-1.101	654	4.76	3.97	2.05	34.01
2339	1020	18.6	-0.263	396	201	189	287	329	3218	282.4	210	79	-1.101	634	4.73	3.95	2.04	34.01
2349	1030	18.6	-0.243	383	206	197	282	326	3218	278.8	204	79	-1.101	615	4.71	3.93	2.03	34.01
2359	1040	18.4	-0.206	372	210	197	280	321	3218	276.0	198	79	-1.101	595	4.69	3.91	2.02	34.01
0009	1050	18.2	-0.208	362	214	194	279	318	3218	273.6	194	79	-1.101	573	4.66	3.90	2.01	34.01
0019	1060	18.0	-0.198	355	218	193	279	317	3218	272.3	191	79	-1.101	562	4.64	3.88	2.00	34.01
0029	1070	17.8	-0.197	352	221	191	279	316	3218	271.9	188	79	-1.100	559	4.61	3.86	1.99	34.01
0039	1080	17.6	-0.197	347	224	190	277	315	3218	270.7	187	78	-1.100	550	4.59	3.84	1.98	34.01
0049	1090	17.4	-0.180	342	227	190	277	315	3218	270.3	184	78	-1.100	536	4.56	3.82	1.97	34.01
0059	1100	17.2	-0.180	336	229	189	275	314	3218	268.7	181	78	-1.100	527	4.54	3.80	1.96	34.01
0109	1110	17.1	-0.160	333	231	190	274	311	3218	268.5	179	78	-1.100	519	4.52	3.78	1.95	34.01
0119	1120	16.9	-0.185	329	233	189	272	307	3218	266.1	178	78	-1.100	511	4.49	3.76	1.94	34.01
0129	1130	16.7	-0.160	325	234	189	273	305	3218	265.1	174	78	-1.100	501	4.47	3.74	1.93	34.01
0139	1140	16.5	-0.159	322	235	187	271	303	3218	263.8	175	78	-1.100	495	4.45	3.72	1.92	34.01
0149	1150	16.4	-0.176	320	236	187	269	306	3218	263.6	173	77	-1.100	492	4.42	3.70	1.91	34.01
0159	1160	16.2	-0.179	319	237	188	269	311	3218	264.7	174	78	-1.100	497	4.40	3.68	1.90	34.01
0209	1170	16.0	-0.202	320	239	188	268	315	3218	266.2	174	78	-1.100	506	4.38	3.66	1.89	34.01
0219	1180	15.8	-0.188	323	240	189	268	320	3218	268.1	176	78	-1.100	514	4.35	3.64	1.88	34.01
0229	1190	15.6	-0.191	325	241	189	268	326	3218	269.9	176	77	-1.100	520	4.33	3.62	1.87	34.01
0239	1200	15.4	-0.183	325	242	188	268	332	3218	271.1	177	77	-1.100	517	4.31	3.60	1.86	34.01
0249	1210	15.3	-0.174	323	243	188	268	336	3218	271.6	175	77	-1.100	504	4.28	3.58	1.85	34.01
0259	1220	15.1	-0.177	318	244	187	268	339	3218	270.7	172	78	-1.100	494	4.26	3.57	1.84	34.01
0309	1230	14.9	-0.167	315	245	188	265	340	3218	270.4	172	77	-1.100	486	4.24	3.55	1.83	34.01
0319	1240	14.7	-0.176	313	246	189	263	340	3218	270.3	172	77	-1.100	485	4.21	3.53	1.82	34.02
0329	1250	14.6	-0.171	313	247	185	263	340	3218	270.3	173	77	-1.100	489	4.19	3.51	1.81	34.01
0339	1260	14.4	-0.190	314	247	185	263	338	3218	270.4	173	77	-1.100	496	4.16	3.49	1.80	34.01
0349	1270	14.2	-0.202	316	249	190	262	339	3218	271.0	174	77	-1.100	501	4.14	3.47	1.79	34.01
0359	1280	14.0	-0.185	317	250	193	262	339	3218	272.3	175	77	-1.100	502	4.12	3.45	1.78	34.01
0409	1290	13.8	-0.188	317	252	195	262	340	3218	273.0	176	77	-1.100	499	4.09	3.43	1.77	34.01
0419	1300	13.5	-0.202	316	255	198	262	342	3218	274.6	177	77	-1.100	495	4.07	3.41	1.76	34.02
0429	1310	13.4	-0.190	314	258	203	263	345	3218	276.6	178	77	-1.100	493	4.04	3.39	1.75	34.01
0439	1320	13.2	-0.202	313	262	204	261	347	3218	277.7	175	77	-1.100	488	4.02	3.37	1.74	34.01
0449	1330	13.0	-0.179	312	265	206	263	348	3218	278.8	174	77	-1.100	479	4.00	3.35	1.73	34.01
0459	1340	12.9	-0.174	309	269	210	265	348	3218	280.1	172	77	-1.100	474	3.97	3.33	1.72	34.01
0509	1350	12.7	-0.182	309	272	215	264	347	3218	281.4	173	77	-1.100	476	3.95	3.31	1.71	34.01
0519	1360	12.5	-0.190	312	275	221	264	347	3218	283.8	175	77	-1.100	482	3.92	3.29	1.70	34.01
0529	1370	12.3	-0.183	315	278	226	266	345	3218	286.2	177	76	-1.100	487	3.90	3.27	1.69	34.02
0539	1380	12.1	-0.196	318	281	228	266	346	3218	287.6	177	76	-1.100	482	3.87	3.25	1.67	34.02
0549	1390	12.0	-0.169	318	284	232	267	346	3218	289.2	177	76	-1.100	480	3.85	3.23	1.66	34.02
0559	1400	11.8	-0.200	320	287	239	269	345	3218	291.9	178	76	-1.100	489	3.82	3.21	1.65	34.02
0608	1410	11.6	-0.183	322	289	247	270	344	3218	294.3	180	76	-1.100	483	3.79	3.19	1.64	34.01
0519	1420	11.4	-0.179	323	290	253	271	343	3218	296.0	179	76	-1.100	480	3.77	3.16	1.63	34.02
0529	1430	11.2	-0.177	323	291	261	272	342	3218	297.5	180	76	-1.100	485	3.74	3.14	1.62	34.02
0539	1440	11.0	-0.191	323	291	266	271	340	3218	298.3	179	76	-1.100	488	3.72	3.12	1.61	34.02
0549	1450	10.8	-0.174	322	291	272	273	339	3218	299.2	180	76	-1.100	483	3.69	3.10	1.60	34.02
0559	1460	10.7	-0.179	323	291	269	273	338	3218	298.8	179	76	-1.100	483	3.66	3.08	1.59	34.02

Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bol (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (in-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
0708	1470	10.5	-0.186	322	290	249	272	338	3218	294.4	179	76	-1.100	491	3.64	3.06	1.58	34.02
0719	1480	10.3	-0.183	322	289	238	272	337	3218	291.7	180	76	-1.100	492	3.61	3.04	1.57	34.02
0729	1490	10.1	-0.174	319	288	232	272	335	3218	289.5	178	76	-1.100	486	3.58	3.01	1.55	34.02
0739	1500	10.0	-0.160	315	287	228	273	332	3218	287.1	177	76	-1.100	478	3.56	2.99	1.54	34.02
0749	1510	9.8	-0.154	313	287	226	274	330	3218	285.9	175	75	-1.100	472	3.53	2.97	1.53	34.02
0759	1520	9.6	-0.163	310	286	223	273	327	3218	283.8	173	75	-1.100	469	3.50	2.95	1.52	34.02
0809	1530	9.7	0.029	307	284	218	272	324	3218	281.3	171	76	-1.100	462	3.48	2.93	1.51	34.02
0819	1540	51.5	41.878	315	284	193	254	302	3218	269.9	303	76	-1.105	502	3.56	2.99	1.54	34.02
0829	1550	49.0	-2.496	518	283	173	235	300	3218	301.7	488	75	-1.108	958	3.75	3.15	1.52	34.02
0839	1560	46.6	-2.419	634	280	176	243	308	3218	308.2	355	76	-1.106	953	3.92	3.28	1.70	34.01
0849	1570	45.3	-1.291	623	274	173	243	303	3218	323.5	320	76	-1.105	973	4.08	3.42	1.76	34.01
0859	1580	44.0	-1.364	626	268	173	245	299	3218	322.1	320	75	-1.105	965	4.22	3.54	1.82	34.01
0909	1590	42.5	-1.459	621	261	175	248	297	3218	320.2	319	76	-1.105	968	4.35	3.64	1.88	34.01
0819	1600	41.2	-1.276	609	253	175	258	297	3218	318.5	309	77	-1.105	989	4.47	3.74	1.93	34.01
0829	1610	40.1	-1.106	603	246	175	266	285	3218	317.0	303	77	-1.105	927	4.58	3.83	1.97	34.01
0839	1620	39.1	-1.048	597	239	177	267	295	3218	315.2	286	77	-1.105	936	4.68	3.91	2.02	34.01
0849	1630	38.1	-1.026	595	233	179	265	288	3218	314.4	286	76	-1.104	932	4.77	3.98	2.05	34.01
0859	1640	37.1	-0.995	584	228	180	266	305	3218	312.5	296	77	-1.104	937	4.85	4.05	2.09	34.01
1009	1650	36.1	-0.992	587	223	179	264	308	3218	312.3	295	76	-1.104	961	4.92	4.11	2.12	34.01
1019	1660	35.1	-0.923	596	219	182	263	306	3218	313.9	298	77	-1.104	999	4.99	4.16	2.15	34.01
1029	1670	34.2	-0.906	602	215	183	263	305	3218	313.7	302	77	-1.104	988	5.05	4.21	2.17	34.00
1039	1680	33.3	-0.897	603	212	185	263	307	3218	314.1	298	77	-1.104	995	5.10	4.26	2.19	34.01
1049	1690	32.5	-0.875	595	209	189	264	311	3218	313.5	297	77	-1.104	981	5.15	4.29	2.21	34.01
1059	1700	31.6	-0.820	590	205	190	264	314	3218	313.4	294	77	-1.104	976	5.19	4.33	2.23	34.01
1109	1710	30.7	-0.898	586	204	193	271	317	3218	316.0	297	76	-1.104	988	5.22	4.35	2.24	34.01
1119	1720	29.7	-0.997	615	202	197	273	321	3218	321.7	309	77	-1.104	1021	5.25	4.38	2.26	34.01
1129	1730	28.6	-1.117	634	201	203	281	329	3218	329.8	315	77	-1.105	1031	5.27	4.39	2.26	34.01
1139	1740	27.5	-1.083	640	200	206	285	338	3218	334.3	297	77	-1.104	913	5.28	4.40	2.27	34.01
1149	1750	26.7	-0.847	611	199	212	290	348	3218	332.0	289	77	-1.104	937	5.30	4.41	2.27	34.01
1159	1760	26.0	-0.709	585	199	215	286	355	3218	330.0	280	77	-1.103	911	5.30	4.42	2.28	34.01
1209	1770	25.3	-0.659	564	198	216	294	365	3218	325.5	279	77	-1.103	921	5.31	4.42	2.28	34.01
1219	1780	24.7	-0.647	549	198	219	292	361	3218	323.8	278	77	-1.103	902	5.31	4.42	2.28	34.01
1229	1790	24.0	-0.689	548	198	223	291	367	3218	325.4	279	77	-1.103	909	5.30	4.42	2.28	34.01
1239	1800	23.5	-0.518	542	197	221	291	365	3218	323.3	268	77	-1.103	864	5.29	4.41	2.27	34.01
1249	1810	23.1	-0.348	503	197	213	284	363	3218	310.0	252	77	-1.102	789	5.28	4.40	2.27	34.01
1259	1820	22.9	-0.267	462	196	209	276	342	3218	296.8	235	77	-1.102	720	5.27	4.39	2.26	34.01
1309	1830	22.6	-0.297	430	195	204	271	332	3218	286.3	226	78	-1.102	684	5.26	4.38	2.26	34.01

MFG: Reg
Model #: F5100

Run #.

Project #: F51 Aging
Run Date: Jul 28/12

OMNI Test Laboratories Inc.

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Signature/Date:



Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (in-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
1330	0	21.9	0.000	418	195	197	265	316	3218	278.3	225	78	-1.102	716	5.22	4.35	2.24	34.01
1340	10	21.5	-0.322	416	196	197	263	312	3218	276.9	222	77	-1.102	712	19.76	-0.84	-0.49	33.98
1350	20	21.2	-0.322	411	197	196	261	309	3218	275.0	220	77	-1.102	702	5.24	4.37	2.25	34.01
1400	30	20.9	-0.337	408	199	196	260	306	3218	274.1	220	77	-1.102	708	5.20	4.33	2.23	34.01
1410	40	20.6	-0.322	413	200	199	259	308	3218	275.8	222	78	-1.102	716	5.15	4.30	2.21	34.01
1420	50	48.5	27.913	420	201	234	290	354	3218	300.1	463	78	-1.109	691	5.11	4.26	2.19	34.01
1430	60	51.5	13.013	485	204	189	283	321	3218	282.1	475	78	-1.108	1048	5.30	4.42	2.28	34.00
1440	70	59.4	-2.122	567	207	152	264	303	3218	308.6	351	79	-1.106	891	5.48	4.57	2.35	34.00
1450	80	58.1	-1.229	547	212	158	260	290	3218	287.2	312	79	-1.105	926	5.65	4.70	2.42	34.00
1500	90	56.9	-1.202	525	216	156	260	276	3218	289.7	305	78	-1.105	922	5.80	4.83	2.49	34.00
1510	100	55.7	-1.220	536	218	156	263	284	3218	291.4	311	79	-1.105	960	5.94	4.94	2.55	34.00
1520	110	54.5	-1.236	567	218	158	250	256	3218	295.0	313	79	-1.105	871	6.07	5.05	2.60	34.00
1530	120	53.2	-1.302	575	217	161	249	253	3218	301.3	316	79	-1.105	994	6.19	5.14	2.65	34.00
1540	130	51.7	-1.479	586	216	164	302	253	3218	308.4	327	79	-1.105	889	6.29	5.23	2.66	34.00
1550	140	50.0	-1.698	609	215	169	304	256	3218	310.6	338	79	-1.105	1002	6.39	5.31	2.73	34.00
1600	150	48.2	-1.764	619	214	173	307	259	3218	314.3	338	80	-1.105	1009	6.47	5.37	2.77	34.00
1610	160	46.7	-1.533	627	213	176	309	263	3218	317.6	326	80	-1.105	1009	6.54	5.43	2.80	33.99
1620	170	45.5	-1.222	632	212	177	311	267	3218	319.9	319	80	-1.105	1022	6.61	5.48	2.83	34.00
1630	180	44.3	-1.186	639	210	181	313	272	3218	322.8	318	80	-1.105	1033	6.66	5.53	2.85	34.00
1640	190	43.3	-1.037	635	207	183	312	276	3218	323.1	310	80	-1.104	1024	6.71	5.57	2.87	34.00
1650	200	42.3	-0.971	628	205	184	310	282	3218	321.7	308	80	-1.104	1010	6.75	5.60	2.89	34.00
1700	210	41.3	-0.952	623	202	186	308	285	3218	320.8	306	80	-1.104	1008	6.79	5.63	2.90	34.00
1710	220	40.4	-0.898	617	199	188	308	286	3218	319.7	302	80	-1.104	994	6.81	5.66	2.91	34.00
1720	230	39.6	-0.801	603	197	189	308	287	3218	316.8	292	80	-1.104	963	6.84	5.67	2.92	34.00
1730	240	39.0	-0.670	570	194	188	304	289	3218	309.0	279	80	-1.103	910	6.86	5.69	2.93	34.00
1740	250	38.4	-0.605	539	193	186	300	288	3218	301.2	269	81	-1.103	865	6.87	5.71	2.94	34.00
1750	260	37.8	-0.541	507	191	184	295	287	3218	292.8	262	80	-1.103	825	6.89	5.72	2.94	34.00
1800	270	37.2	-0.582	480	190	182	269	285	3218	287.1	256	80	-1.103	813	6.89	5.72	2.95	34.00
1810	280	36.6	-0.592	485	189	180	263	282	3218	283.9	256	80	-1.103	826	6.90	5.73	2.95	34.00
1820	290	36.1	-0.581	487	187	180	260	279	3218	282.8	259	80	-1.103	833	6.90	5.73	2.95	34.00
1830	300	35.5	-0.544	480	185	179	277	279	3218	280.1	253	80	-1.103	803	6.90	5.73	2.95	34.00
1840	310	35.0	-0.491	461	185	178	275	278	3218	275.2	244	80	-1.102	760	6.90	5.72	2.95	34.00
1850	320	34.6	-0.470	443	184	176	272	276	3218	270.3	239	80	-1.102	739	6.89	5.72	2.95	34.00
1900	330	34.1	-0.425	430	183	175	269	275	3218	266.7	233	80	-1.102	715	6.88	5.71	2.94	34.00
1910	340	33.7	-0.401	417	183	173	267	274	3218	262.7	225	80	-1.102	682	6.88	5.71	2.94	34.00
1920	350	33.4	-0.361	402	182	171	264	271	3218	259.0	218	80	-1.102	657	6.86	5.70	2.93	34.00
1930	360	33.0	-0.351	390	182	170	258	269	3218	253.8	215	80	-1.101	640	6.85	5.69	2.93	34.00
1940	370	32.7	-0.362	384	181	168	254	266	3218	250.9	214	80	-1.101	598	6.84	5.67	2.92	34.00
1950	380	32.3	-0.371	382	181	168	250	266	3218	249.4	213	80	-1.101	644	6.82	5.65	2.92	34.00
2000	390	31.9	-0.393	385	181	168	248	265	3218	249.2	215	80	-1.101	561	6.80	5.64	2.91	33.99
2010	400	31.5	-0.376	366	181	169	246	266	3218	249.6	217	80	-1.101	562	6.78	5.63	2.90	34.00
2020	410	31.2	-0.350	381	181	168	245	266	3218	248.2	213	80	-1.101	645	6.76	5.61	2.89	34.00
2030	420	30.8	-0.340	376	181	167	244	266	3218	247.0	211	80	-1.101	638	6.74	5.59	2.88	34.00
2040	430	30.5	-0.339	376	181	167	242	269	3218	246.9	213	79	-1.101	646	6.71	5.57	2.87	34.00
2050	440	30.1	-0.373	380	181	166	243	277	3218	249.5	215	79	-1.101	562	6.68	5.55	2.86	34.00
2100	460	29.7	-0.391	400	181	168	243	283	3218	254.7	220	79	-1.101	704	6.66	5.53	2.85	34.00
2110	460	29.4	-0.365	405	181	169	243	286	3218	257.1	220	80	-1.101	693	6.63	5.50	2.84	34.00
2120	470	29.0	-0.370	401	181	169	244	292	3218	257.4	217	79	-1.101	673	6.60	5.48	2.82	34.00
2130	480	28.6	-0.388	397	181	171	244	296	3218	257.7	217	79	-1.101	568	6.57	5.45	2.81	34.00

Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (in-H2O)	Cat. Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
2140	490	28.2	-0.431	399	181	171	246	300	3218	259.4	219	79	-1.101	862	6.54	5.43	2.80	34.00
2150	500	27.7	-0.462	409	182	176	246	307	3218	263.9	226	79	-1.102	713	6.51	5.41	2.78	34.00
2200	610	27.2	-0.542	427	182	181	249	313	3218	270.4	237	79	-1.102	760	6.48	5.38	2.77	34.00
2210	520	26.6	-0.575	450	183	186	253	318	3218	277.8	248	79	-1.102	809	6.45	5.36	2.76	34.00
2220	630	26.0	-0.560	472	184	191	256	322	3218	284.9	252	79	-1.102	835	6.41	5.33	2.75	34.00
2230	540	25.4	-0.570	481	185	193	250	325	3218	288.9	254	80	-1.102	836	6.38	5.30	2.73	34.00
2240	560	24.9	-0.538	483	186	196	262	328	3218	292.9	256	80	-1.102	853	6.34	5.27	2.72	34.00
2250	560	24.4	-0.456	484	188	196	264	330	3218	292.3	250	80	-1.102	823	6.31	5.24	2.70	34.00
2300	570	24.0	-0.469	476	189	196	265	333	3218	291.9	249	80	-1.102	820	6.27	5.21	2.68	34.00
2310	580	23.6	-0.411	461	191	202	267	337	3218	291.6	244	79	-1.102	764	6.23	5.18	2.67	34.00
2320	590	23.1	-0.418	445	194	205	267	339	3218	290.0	239	79	-1.102	738	6.19	5.14	2.65	34.00
2330	600	22.8	-0.384	443	197	208	270	340	3218	291.4	236	80	-1.102	734	6.15	5.11	2.63	34.00
2340	610	22.5	-0.248	424	201	207	269	337	3218	287.6	223	80	-1.101	561	6.11	5.08	2.62	34.00
2360	620	22.3	-0.202	397	205	205	266	333	3218	281.1	208	80	-1.101	566	6.07	5.04	2.60	34.00
0000	630	22.1	-0.188	374	209	204	263	330	3218	275.6	200	80	-1.101	559	6.02	5.01	2.58	34.00
0010	640	21.9	-0.191	358	212	204	260	328	3218	272.3	193	80	-1.101	538	5.98	4.98	2.56	34.00
0020	650	21.7	-0.186	347	215	204	256	323	3218	270.2	190	80	-1.101	522	5.94	4.94	2.55	34.00
0030	660	21.6	-0.190	341	218	209	255	329	3218	270.5	188	79	-1.100	513	5.90	4.91	2.53	34.01
0040	670	21.4	-0.202	338	221	212	252	330	3218	270.7	188	79	-1.100	518	5.86	4.88	2.51	34.00
0050	680	21.2	-0.200	337	224	212	250	331	3218	270.8	188	79	-1.100	517	5.82	4.85	2.50	34.01
0100	690	21.0	-0.190	333	227	211	248	331	3218	270.0	186	79	-1.100	510	5.79	4.82	2.48	34.00
0110	700	20.7	-0.217	332	230	212	246	335	3218	270.9	186	79	-1.100	510	5.75	4.78	2.47	34.00
0120	710	20.5	-0.222	338	232	213	245	343	3218	274.4	191	79	-1.100	527	5.71	4.76	2.46	34.00
0130	720	20.2	-0.250	347	234	217	245	356	3218	279.8	196	79	-1.101	568	5.68	4.73	2.44	34.00
0140	730	20.0	-0.268	354	236	222	245	370	3218	285.4	199	79	-1.101	572	5.64	4.70	2.42	34.00
0150	740	19.7	-0.248	354	238	228	245	396	3218	290.0	197	79	-1.101	549	5.61	4.67	2.40	34.00
0200	750	19.5	-0.208	350	239	224	245	396	3218	290.8	193	78	-1.101	533	5.57	4.64	2.39	34.00
0210	760	19.3	-0.177	346	241	222	244	398	3218	286.6	186	78	-1.100	504	5.54	4.61	2.38	34.00
0220	770	19.2	-0.162	338	242	221	243	390	3218	286.6	186	79	-1.100	504	5.50	4.58	2.36	34.00
0230	780	19.0	-0.163	332	243	221	240	383	3218	283.8	183	79	-1.100	494	5.47	4.56	2.35	34.00
0240	790	18.9	-0.136	328	244	220	238	378	3218	281.0	179	78	-1.100	480	5.44	4.53	2.33	34.00
0250	800	18.7	-0.162	319	244	220	236	376	3218	279.2	176	78	-1.100	489	5.40	4.50	2.32	34.00
0300	810	18.6	-0.142	315	245	219	235	374	3218	277.7	174	78	-1.100	466	5.37	4.47	2.30	34.00
0310	820	18.4	-0.163	310	245	221	233	369	3218	275.8	173	78	-1.100	456	5.34	4.45	2.29	34.00
0320	830	18.3	-0.140	307	245	225	231	365	3218	274.7	172	78	-1.100	453	5.31	4.42	2.28	34.01
0330	840	18.1	-0.149	305	245	228	230	360	3218	273.5	170	78	-1.100	449	5.27	4.40	2.26	34.01
0340	850	18.0	-0.154	302	244	230	229	354	3218	272.0	170	78	-1.100	447	5.24	4.37	2.25	34.00
0350	860	17.9	-0.134	300	244	233	228	353	3218	271.5	170	78	-1.100	443	5.21	4.35	2.24	34.01
0400	870	17.7	-0.165	298	244	236	228	352	3218	271.5	169	78	-1.100	441	5.18	4.32	2.23	34.01
0410	880	17.5	-0.157	297	244	236	227	353	3218	271.3	169	78	-1.100	441	5.15	4.30	2.21	34.01
0420	890	17.4	-0.126	296	243	237	227	352	3218	271.1	168	78	-1.100	439	5.12	4.27	2.20	34.01
0430	900	17.2	-0.156	295	243	234	226	351	3218	269.9	168	78	-1.100	435	5.09	4.25	2.19	34.01
0440	910	17.1	-0.139	294	243	234	225	350	3218	269.2	169	78	-1.100	435	5.07	4.22	2.18	34.01
0450	920	17.0	-0.154	293	243	233	225	349	3218	268.6	168	78	-1.100	433	5.04	4.20	2.17	34.01
0500	930	16.8	-0.140	292	243	233	223	348	3218	267.9	168	77	-1.100	431	5.01	4.18	2.15	34.00
0510	940	16.7	-0.131	292	243	230	222	344	3218	266.5	167	77	-1.100	431	4.98	4.16	2.14	34.01
0520	950	16.5	-0.146	290	243	230	222	341	3218	265.1	166	77	-1.100	429	4.95	4.13	2.13	34.01
0530	960	16.4	-0.133	289	243	229	221	337	3218	263.7	166	77	-1.100	427	4.92	4.11	2.12	34.01
0540	970	16.3	-0.138	288	242	230	220	335	3218	262.8	165	77	-1.099	427	4.90	4.09	2.11	34.01

MFG: Reg. Jy
Model #: F5100

Run #: , _ng_2

Project #: F51c Aging
Run Date: Jul 29/12

Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf	Stack (oF)	AMB (oF)	Draft (In-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
0550	980	16.1	-0.133	288	242	232	220	333	3218	262.8	165	77	-1.099	428	4.87	4.05	2.06	34.01
0600	990	16.0	-0.139	288	242	232	220	332	3218	262.7	166	77	-1.100	430	4.84	4.04	2.06	34.01
0610	1000	15.6	-0.159	289	241	235	219	332	3218	263.2	166	77	-1.098	431	4.81	4.02	2.07	34.01
0620	1010	15.7	-0.146	291	241	234	219	332	3218	263.4	167	77	-1.100	435	4.79	4.00	2.06	34.00
0630	1020	15.5	-0.157	295	241	227	216	331	3218	261.9	168	77	-1.100	444	4.76	3.97	2.05	34.01
0640	1030	15.4	-0.128	297	241	223	215	331	3218	261.4	168	77	-1.100	451	4.73	3.95	2.04	34.01
0650	1040	15.2	-0.169	299	241	222	214	330	3218	261.2	170	77	-1.100	450	4.70	3.93	2.03	34.01
0700	1050	15.1	-0.133	299	241	220	213	331	3218	260.7	170	77	-1.100	446	4.68	3.91	2.01	34.01
0710	1060	15.0	-0.129	298	240	222	212	330	3218	260.4	169	76	-1.100	443	4.64	3.88	2.00	34.01
0720	1070	14.8	-0.159	297	240	223	213	330	3218	260.8	169	76	-1.100	442	4.62	3.86	1.99	34.01
0730	1080	11.3	-3.537	296	241	226	213	329	3218	261.1	173	76	-1.100	444	4.59	3.83	1.98	34.01
0740	1090	14.5	3.246	297	240	228	215	329	3218	261.9	175	75	-1.100	450	4.55	3.80	1.96	34.00
0750	1100	14.4	-0.139	303	241	235	218	331	3218	265.4	178	75	-1.100	458	4.52	3.78	1.95	34.01
0800	1110	14.2	-0.203	307	241	247	222	333	3218	269.9	182	75	-1.100	465	4.49	3.76	1.94	34.01
0810	1120	14.0	-0.194	311	241	257	228	331	3218	273.6	184	75	-1.100	471	4.47	3.74	1.93	34.01
0820	1130	13.8	-0.191	314	241	261	234	329	3218	275.9	185	75	-1.100	474	4.44	3.72	1.91	34.01
0830	1140	13.4	-0.364	318	242	250	244	329	3218	276.5	206	75	-1.101	479	4.42	3.69	1.90	34.01
0840	1150	13.0	-0.462	388	242	222	255	326	3218	266.6	211	75	-1.101	849	4.39	3.67	1.89	34.01
0850	1160	12.7	-0.316	415	242	210	261	326	3218	261.2	214	76	-1.101	895	4.36	3.65	1.88	34.01
0900	1170	12.5	-0.200	409	241	201	265	326	3218	268.4	204	75	-1.101	620	4.33	3.63	1.87	34.02
0910	1180	12.3	-0.160	390	238	196	267	325	3218	263.2	193	75	-1.101	568	4.30	3.60	1.86	34.01
0920	1190	12.1	-0.169	373	235	192	267	323	3218	278.1	195	75	-1.100	537	18.82	-1.44	-0.74	33.98
0930	1200	12.0	-0.145	358	233	189	265	321	3218	273.2	180	76	-1.100	514	18.36	-1.36	-0.70	33.99

Appendix F: Run Information

Run 1:



Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (In-H2O)	Cal Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
1444	0	11.7	0.000	706	247	380	396	495	3218	444.7	476	80	0.111	1029	20.03	0.20	0.56	74.20
1454	10	10.6	-1.102	636	248	224	393	475	3218	395.0	256	79	0.147	884	19.87	0.18	0.53	74.20
1504	20	10.0	-0.610	577	247	199	373	440	3218	367.4	256	79	0.163	812	19.81	0.16	0.46	74.18
1514	30	9.8	-0.222	499	246	185	347	409	3218	337.0	235	79	0.172	789	19.68	0.15	0.42	74.13
1524	40	9.7	-0.089	422	243	173	322	383	3218	308.6	210	79	0.182	646	19.55	0.13	0.37	74.09
1534	50	9.4	-0.268	376	241	165	303	359	3218	288.7	207	78	0.183	623	19.44	0.12	0.33	74.04
1544	60	9.3	-0.190	372	240	159	288	343	3218	280.2	201	79	0.188	661	19.33	0.10	0.29	73.92
1554	70	7.8	-1.480	347	240	156	260	334	3218	271.3	221	78	0.188	543	19.62	0.05	0.15	73.64
1604	80	7.7	-0.080	321	240	151	275	323	3218	262.0	177	78	0.197	499	19.96	0.02	0.04	71.12

Long
8/17/12

Test Time	ET	Gas Meter (ft3)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Tun Temp	Dil Turnn	Pro Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
0008	480	254.790	0.531	0.86	89	1.22	87	0.034	100.8	4.5	-0.15	289	242	169	257	293	3218	250.0	173	79	52	77	0.060	507
0018	490	260.092	0.530	0.86	89	1.22	87	0.034	100.7	4.5	-0.14	291	242	170	257	291	3218	250.0	174	79	52	77	0.060	514
0028	500	265.351	0.530	0.86	89	1.24	87	0.034	100.7	4.4	-0.15	292	241	168	256	289	3218	249.1	175	79	52	77	0.060	517
0038	510	270.694	0.530	0.86	89	1.23	87	0.034	100.8	4.2	-0.16	288	240	164	251	289	3218	246.4	173	79	52	77	0.060	500
0048	520	275.997	0.530	0.86	89	1.26	87	0.034	100.8	4.1	-0.13	292	240	163	247	289	3218	244.3	170	79	52	77	0.061	486
0068	530	281.296	0.530	0.86	89	1.27	87	0.034	100.7	3.9	-0.15	279	241	163	245	289	3218	243.2	170	79	52	77	0.061	482
0108	540	286.596	0.530	0.86	89	1.27	86	0.034	100.8	3.8	-0.13	279	242	163	243	288	3218	242.7	168	79	52	77	0.061	481
0118	550	291.899	0.530	0.86	89	1.27	86	0.034	100.8	3.7	-0.11	279	242	165	240	286	3218	242.5	168	79	52	77	0.061	479
0128	560	297.200	0.530	0.86	89	1.29	86	0.034	100.8	3.5	-0.16	279	242	169	240	287	3218	243.6	169	79	53	77	0.061	485
0138	570	302.500	0.530	0.86	89	1.24	86	0.034	100.8	3.4	-0.15	280	244	170	240	287	3218	244.1	170	79	53	77	0.061	485
0148	580	307.798	0.530	0.86	89	1.22	86	0.034	100.8	3.2	-0.15	280	245	170	238	288	3218	244.3	172	79	53	77	0.061	486
0158	590	313.096	0.530	0.86	88	1.25	86	0.034	100.8	3.1	-0.16	280	245	171	239	289	3218	244.7	170	79	53	77	0.061	490
0208	600	318.394	0.530	0.86	89	1.23	86	0.034	100.8	2.9	-0.21	281	246	169	244	290	3218	245.7	172	79	53	78	0.061	491
0218	610	323.691	0.530	0.86	89	1.24	86	0.034	100.7	2.7	-0.19	279	247	168	247	292	3218	246.7	169	79	53	77	0.061	484
0228	620	328.989	0.530	0.86	89	1.25	86	0.034	100.7	2.5	-0.16	279	246	167	248	292	3218	246.7	170	79	53	78	0.061	489
0238	630	334.286	0.530	0.86	89	1.25	86	0.034	100.7	2.4	-0.15	281	249	166	248	291	3218	247.1	170	80	54	78	0.061	490
0248	640	339.586	0.530	0.86	89	1.25	86	0.034	100.7	2.2	-0.15	279	250	166	249	290	3218	246.7	170	80	54	78	0.061	487
0258	650	344.886	0.530	0.86	89	1.26	86	0.034	100.6	2.1	-0.14	277	250	165	248	289	3218	246.7	170	80	54	78	0.061	487
0308	660	350.187	0.530	0.86	89	1.26	86	0.034	100.7	1.9	-0.14	273	250	165	248	287	3218	245.1	169	80	54	78	0.061	481
0318	670	355.487	0.530	0.86	89	1.27	86	0.034	100.7	1.8	-0.14	270	251	163	243	281	3218	241.3	165	80	55	78	0.062	471
0328	680	360.784	0.530	0.86	90	1.26	86	0.034	100.6	1.7	-0.12	289	251	160	241	277	3218	239.6	164	80	56	78	0.061	466
0338	690	366.085	0.530	0.86	90	1.25	86	0.034	100.7	1.5	-0.13	265	251	155	236	274	3218	236.3	165	80	56	78	0.062	462
0348	700	371.388	0.530	0.86	90	1.31	86	0.034	100.7	1.4	-0.11	261	252	151	230	268	3218	232.6	163	80	57	77	0.062	452
0358	710	376.690	0.530	0.86	90	1.30	86	0.034	100.7	1.3	-0.11	258	253	148	224	263	3218	229.2	160	80	55	77	0.062	448
0408	720	381.993	0.530	0.86	90	1.28	86	0.034	100.7	1.2	-0.11	257	253	146	220	260	3218	227.0	159	80	54	77	0.062	451
0418	730	387.295	0.530	0.86	90	1.29	85	0.034	100.7	1.1	-0.10	256	253	145	216	257	3218	225.4	158	80	54	77	0.062	452
0428	740	392.598	0.530	0.86	90	1.29	85	0.034	100.7	1.0	-0.12	254	253	145	214	255	3218	224.0	156	81	53	77	0.063	450
0438	750	397.906	0.531	0.86	90	1.26	85	0.034	100.9	0.9	-0.09	253	253	145	210	252	3218	222.7	156	81	53	77	0.062	452
0448	760	403.221	0.531	0.86	90	1.26	85	0.034	100.9	0.7	-0.14	254	253	147	208	251	3218	222.8	157	81	53	78	0.062	457
0458	770	408.535	0.531	0.86	90	1.28	85	0.034	100.9	0.6	-0.13	256	253	149	207	252	3218	223.8	157	81	53	78	0.062	463
0508	780	413.847	0.531	0.86	90	1.29	85	0.034	100.6	0.5	-0.12	261	254	151	205	253	3218	224.7	158	81	53	77	0.062	471
0518	790	419.157	0.531	0.86	90	1.28	85	0.034	100.8	0.4	-0.14	264	255	150	205	254	3218	225.7	160	81	53	77	0.062	481
0528	800	424.472	0.532	0.86	90	1.27	85	0.034	100.9	0.2	-0.15	264	255	149	204	255	3218	225.5	161	81	53	77	0.062	478
0538	810	429.786	0.531	0.86	90	1.24	85	0.034	100.9	0.0	-0.20	262	256	149	204	256	3218	225.2	159	81	53	77	0.062	470
AVG	NA	NA	0.631	0.861	89.573	1.218	90.390	0.034	100.463	NA	NA	343.646	234.024	155.951	241.890	287.732	3218.000	NA	202.951	79.871	53.049	78.439	0.058	609.512

Sary Stak
8/17/12

Test Time	ET	Gas Meter (ft3)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Tun Temp	Dil Tun cp	Pro Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
1608	0	0.000	0.000	-0.02	81	0.06	95	0.034	0.0	30.5	30.46	316	240	173	272	320	3218	284.6	212	79	76	78	0.175	502
1618	10	5.399	0.540	0.87	81	1.16	92	0.034	100.8	30.1	-0.33	310	241	192	245	286	3218	284.9	194	81	48	78	0.075	458
1628	20	10.689	0.529	0.86	82	1.18	90	0.034	99.6	29.9	-0.26	289	242	191	226	261	3218	243.9	181	78	50	77	0.057	459
1638	30	15.982	0.529	0.86	84	1.14	89	0.034	99.9	29.6	-0.30	291	241	187	214	245	3218	235.6	178	77	50	78	0.057	463
1646	40	21.282	0.530	0.86	85	1.18	89	0.034	100.0	29.3	-0.29	261	239	119	206	234	3218	211.5	171	76	50	78	0.058	472
1658	50	26.592	0.530	0.86	86	1.15	88	0.034	100.0	28.9	-0.34	246	234	111	199	226	3218	203.7	168	76	50	78	0.059	477
1706	60	31.884	0.530	0.86	86	1.20	89	0.034	100.0	28.6	-0.35	246	230	110	194	220	3218	200.2	172	76	50	78	0.058	492
1718	70	37.187	0.530	0.86	87	1.16	89	0.034	100.0	28.1	-0.48	264	225	109	189	214	3218	200.5	180	77	50	78	0.057	535
1728	80	42.493	0.531	0.86	88	1.17	89	0.034	100.1	27.7	-0.44	272	221	110	186	211	3218	199.9	184	77	50	77	0.056	563
1736	90	47.794	0.530	0.86	88	1.16	89	0.034	100.1	27.2	-0.46	276	216	110	184	209	3218	199.4	183	77	50	78	0.057	548
1748	100	53.088	0.529	0.86	88	1.14	90	0.034	99.9	26.7	-0.50	284	215	111	183	208	3218	200.2	188	76	51	78	0.056	566
1758	110	58.377	0.529	0.86	89	1.16	90	0.034	99.8	26.2	-0.51	293	212	111	182	209	3218	201.4	189	76	51	79	0.056	586
1808	120	63.669	0.529	0.86	89	1.15	90	0.034	99.9	25.8	-0.41	293	210	111	182	209	3218	200.9	186	76	51	79	0.056	579
1818	130	68.974	0.530	0.87	90	1.17	90	0.034	100.1	25.4	-0.41	291	208	111	181	210	3218	199.9	185	77	51	79	0.055	581
1828	140	74.278	0.530	0.86	90	1.16	90	0.034	100.1	24.9	-0.43	286	205	110	181	211	3218	198.7	192	76	52	79	0.055	570
1838	150	79.582	0.530	0.86	90	1.17	93	0.034	100.1	24.3	-0.61	305	203	110	182	216	3218	203.4	248	77	52	79	0.048	865
1848	160	84.881	0.530	0.86	90	1.17	95	0.034	100.1	23.4	-0.90	364	202	116	188	231	3218	223.8	259	78	52	79	0.040	857
1858	170	90.181	0.530	0.87	90	1.16	102	0.034	100.1	22.7	-0.78	404	201	119	194	243	3218	232.3	365	79	52	79	0.039	878
1908	180	95.479	0.530	0.86	90	1.20	98	0.034	100.0	21.3	-1.33	459	202	134	216	267	3218	255.6	280	80	52	79	0.046	842
1918	190	100.777	0.530	0.86	91	1.25	97	0.034	100.0	20.6	-0.71	465	204	132	222	276	3218	260.1	261	80	52	79	0.048	867
1928	200	106.072	0.530	0.88	91	1.24	97	0.034	100.0	19.8	-0.79	452	206	141	230	288	3218	283.4	269	80	52	80	0.048	864
1938	210	111.371	0.530	0.86	91	1.22	97	0.034	100.1	18.9	-0.88	485	208	143	236	295	3218	274.0	281	80	53	80	0.046	942
1948	220	116.666	0.530	0.86	91	1.22	97	0.034	100.0	18.0	-0.98	532	209	146	241	305	3218	286.5	288	80	53	80	0.045	959
1958	230	121.962	0.530	0.86	91	1.21	98	0.034	100.0	17.0	-0.91	560	210	150	249	315	3218	294.6	288	80	53	80	0.046	970
2008	240	127.258	0.530	0.86	91	1.22	98	0.034	100.0	16.1	-0.93	559	211	154	256	325	3218	300.8	292	81	53	81	0.045	971
2018	250	132.575	0.532	0.87	92	1.25	99	0.034	100.4	15.1	-1.06	564	212	158	264	333	3218	306.4	297	81	53	80	0.044	965
2028	260	137.896	0.532	0.87	92	1.24	99	0.034	100.5	14.0	-1.06	564	213	164	272	343	3218	311.1	295	82	53	81	0.045	969
2038	270	143.213	0.532	0.86	92	1.23	99	0.034	100.4	13.0	-1.03	563	214	169	279	350	3218	314.9	298	82	53	81	0.044	959
2048	280	148.531	0.532	0.86	92	1.23	99	0.034	100.4	11.9	-1.07	556	215	174	286	357	3218	318.2	296	82	54	81	0.045	947
2058	290	153.850	0.532	0.86	92	1.23	99	0.034	100.4	10.9	-0.98	567	217	177	292	363	3218	321.4	290	83	54	80	0.045	944
2108	300	159.168	0.532	0.87	92	1.22	99	0.034	100.3	10.0	-0.94	555	219	181	298	369	3218	324.2	288	83	54	81	0.046	937
2118	310	164.485	0.532	0.86	92	1.24	99	0.034	100.3	9.1	-0.86	552	221	182	303	374	3218	326.3	282	83	54	81	0.046	931
2128	320	169.800	0.532	0.86	93	1.26	98	0.034	100.3	8.4	-0.76	548	224	185	304	378	3218	328.0	275	83	55	81	0.048	918
2138	330	175.116	0.532	0.86	93	1.22	98	0.034	100.3	7.7	-0.68	547	226	186	309	381	3218	328.8	271	83	56	81	0.049	921
2148	340	180.432	0.532	0.86	93	1.26	97	0.034	100.3	7.1	-0.54	536	229	188	310	383	3218	329.5	262	83	56	82	0.050	914
2158	350	185.745	0.531	0.86	93	1.24	96	0.034	100.2	6.8	-0.36	512	232	188	310	383	3218	325.1	252	83	56	81	0.051	863
2208	360	191.059	0.531	0.86	93	1.23	95	0.034	100.3	6.5	-0.27	450	234	188	312	378	3218	312.7	235	83	57	81	0.053	741
2218	370	196.375	0.532	0.86	92	1.26	94	0.034	100.4	6.3	-0.20	399	236	188	315	367	3218	301.0	219	82	54	80	0.054	663
2228	380	201.690	0.532	0.87	92	1.25	92	0.034	100.5	6.1	-0.21	370	238	186	310	355	3218	291.6	209	81	53	80	0.055	626
2238	390	207.007	0.532	0.87	91	1.25	92	0.034	100.6	5.9	-0.17	363	239	185	304	345	3218	285.4	203	80	53	79	0.056	604
2248	400	212.322	0.532	0.86	91	1.27	91	0.034	100.6	5.7	-0.17	336	240	180	296	337	3218	278.6	196	80	52	79	0.057	576
2258	410	217.634	0.531	0.86	91	1.22	90	0.034	100.6	5.6	-0.17	325	241	175	289	328	3218	272.4	192	80	52	79	0.058	559
2308	420	222.942	0.531	0.86	90	1.21	90	0.034	100.6	5.4	-0.14	318	242	170	281	321	3218	266.5	186	80	52	78	0.058	541
2318	430	228.251	0.531	0.86	90	1.25	89	0.034	100.7	5.3	-0.13	307	243	166	272	314	3218	260.5	179	80	52	78	0.059	516
2328	440	233.563	0.531	0.86	90	1.23	89	0.034	100.8	5.2	-0.12	296	244	165	266	306	3218	255.7	177	79	52	78	0.060	505
2338	450	238.872	0.531	0.87	90	1.24	88	0.034	100.8	5.1	-0.12	293	244	164	262	301	3218	253.0	175	79	52	78	0.060	489
2348	460	244.179	0.531	0.86	90	1.28	88	0.034	100.8	4.9	-0.14	290	244	165	260	298	3218	251.2	173	79	52	78	0.060	466
2358	470	249.484	0.531	0.86	90	1.27	88	0.034	100.7	4.8	-0.14	288	243	167	257	296	3218	250.3	173	79	52	77	0.060	467

Run 2:

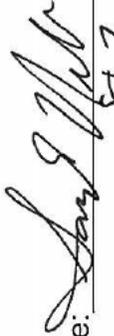


Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (In-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
0912	0	13.0	0.000	714	317	350	374	443	3218	439.4	473	78	0.106	1026	20.04	0.68	0.72	51.49
0922	10	12.1	-0.891	623	309	208	366	428	3218	386.8	314	78	0.143	899	20.04	0.73	0.74	50.54
0932	20	11.5	-0.632	546	300	189	352	408	3218	358.8	298	78	0.141	896	20.04	0.72	0.74	50.67
0942	30	10.8	-0.650	512	290	178	336	385	3218	340.3	293	77	0.150	912	20.04	0.74	0.75	50.40
0952	40	9.8	-1.074	577	283	176	326	378	3218	348.3	317	77	0.142	963	20.04	0.76	0.76	49.96
1002	50	8.2	-1.604	575	279	181	331	387	3218	350.6	320	78	0.138	848	20.04	0.76	0.76	50.01
1012	60	7.2	-0.924	572	275	178	331	387	3218	348.5	276	78	0.155	828	20.04	0.77	0.77	49.81
1022	70	6.9	-0.350	530	270	170	318	375	3218	332.8	258	77	0.164	806	20.04	0.73	0.75	50.47
1032	80	6.6	-0.259	466	268	165	308	361	3218	313.6	238	77	0.171	714	20.04	0.73	0.75	50.45
1036	83	6.6	-0.088	448	268	165	307	359	3218	309.6	272	77	0.165	692	20.04	0.71	0.74	50.79

Test Time	ET	Gas Meter (ft3)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Tun Temp	Dil Tun dp	Pro Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
1037	0	0.000	0.000	-0.02	80	0.06	99	0.034	0.0	30.2	30.19	450	269	192	307	359	3218	315.3	262	78	74	77	0.157	661
1047	10	5.222	0.522	0.86	80	1.14	98	0.034	100.8	29.9	-0.43	390	272	214	277	316	3218	294.0	239	80	46	77	0.072	558
1057	20	10.492	0.527	0.86	81	1.09	92	0.034	101.1	29.4	-0.37	355	275	210	254	287	3218	276.4	222	78	48	77	0.073	566
1107	30	15.796	0.527	0.86	82	1.13	91	0.034	100.9	29.0	-0.40	341	273	205	241	268	3218	285.7	224	77	48	77	0.074	577
1117	40	21.046	0.528	0.86	84	1.14	92	0.034	100.8	28.4	-0.59	337	268	128	231	255	3218	243.7	229	77	48	77	0.073	637
1127	50	26.327	0.528	0.86	85	1.16	92	0.034	100.6	27.7	-0.65	344	260	120	221	246	3218	238.4	232	76	48	77	0.072	668
1137	60	31.610	0.528	0.85	85	1.13	92	0.034	100.6	27.1	-0.66	360	253	119	216	239	3218	237.2	237	76	48	76	0.072	673
1147	70	36.894	0.528	0.86	86	1.12	93	0.034	100.5	26.4	-0.70	365	247	118	214	234	3218	235.7	241	76	48	77	0.071	693
1157	80	42.184	0.529	0.86	86	1.14	93	0.034	100.5	25.7	-0.71	380	242	119	215	233	3218	237.8	249	77	48	77	0.070	729
1207	90	47.481	0.530	0.86	87	1.15	93	0.034	100.6	25.0	-0.73	369	237	120	217	236	3218	239.7	247	77	48	77	0.070	716
1217	100	52.780	0.530	0.86	87	1.16	94	0.034	100.6	24.3	-0.61	383	234	120	218	238	3218	238.6	245	78	48	78	0.071	721
1227	110	58.081	0.530	0.87	88	1.19	94	0.034	100.5	23.7	-0.62	380	231	122	219	240	3218	238.2	245	78	48	78	0.071	731
1237	120	63.379	0.530	0.86	88	1.14	94	0.034	100.4	23.1	-0.57	381	229	123	220	242	3218	239.2	245	78	49	78	0.071	726
1247	130	68.678	0.530	0.86	88	1.15	94	0.034	100.4	22.5	-0.61	387	228	125	221	245	3218	241.2	244	79	49	78	0.072	721
1257	140	73.976	0.530	0.86	89	1.22	95	0.034	100.4	21.9	-0.59	393	226	126	222	248	3218	243.2	249	79	49	79	0.072	753
1307	150	79.276	0.530	0.86	89	1.16	95	0.034	100.3	21.4	-0.59	384	225	129	226	250	3218	244.9	250	79	49	79	0.064	756
1317	160	84.574	0.530	0.86	90	1.16	95	0.034	100.3	20.8	-0.57	400	224	130	229	252	3218	247.0	255	79	49	79	0.063	778
1327	170	89.873	0.530	0.86	90	1.21	95	0.034	100.3	20.3	-0.52	403	223	131	231	254	3218	248.4	264	79	50	80	0.064	780
1337	180	95.174	0.530	0.86	90	1.17	95	0.034	100.3	19.7	-0.55	400	222	132	232	256	3218	248.4	262	79	49	79	0.064	766
1347	190	100.473	0.530	0.85	90	1.16	96	0.034	100.3	19.2	-0.56	400	221	133	234	258	3218	249.3	266	79	50	79	0.063	778
1357	200	105.773	0.530	0.86	90	1.16	96	0.034	100.3	18.6	-0.58	405	221	134	238	262	3218	251.9	260	79	50	79	0.062	802
1407	210	111.074	0.530	0.86	90	1.19	96	0.034	100.4	18.0	-0.62	421	220	136	240	265	3218	256.5	270	79	50	79	0.062	842
1417	220	116.371	0.530	0.86	90	1.17	97	0.034	100.4	17.3	-0.64	443	220	138	244	269	3218	262.8	278	79	50	78	0.061	872
1427	230	121.669	0.530	0.86	90	1.15	97	0.034	100.4	16.6	-0.71	463	221	141	251	275	3218	270.2	284	79	50	79	0.060	897
1437	240	126.975	0.531	0.86	90	1.20	98	0.034	100.5	15.8	-0.81	495	222	146	260	284	3218	281.3	293	79	50	79	0.058	940
1447	250	132.280	0.530	0.86	90	1.15	99	0.034	100.5	14.9	-0.88	528	223	151	271	295	3218	293.8	306	79	51	79	0.057	990
1457	260	137.582	0.530	0.86	90	1.18	101	0.034	100.5	13.9	-1.03	570	226	157	283	309	3218	306.8	320	80	51	79	0.056	1039
1507	270	142.883	0.530	0.86	90	1.18	102	0.034	100.4	12.8	-1.10	594	229	163	293	323	3218	320.4	325	81	51	79	0.055	1048
1517	280	148.181	0.530	0.86	90	1.16	103	0.034	100.4	11.6	-1.17	592	231	181	325	341	3218	334.2	333	81	51	79	0.054	960
1527	290	153.474	0.529	0.86	91	1.21	103	0.034	100.2	10.4	-1.23	587	234	181	333	351	3218	337.3	324	82	51	80	0.054	1000
1537	300	158.767	0.529	0.86	91	1.21	103	0.034	100.2	9.2	-1.13	604	236	186	332	360	3218	343.7	329	81	51	80	0.054	1042
1547	310	164.062	0.530	0.86	91	1.23	103	0.034	100.3	8.2	-1.02	608	239	188	336	370	3218	348.0	324	81	51	80	0.056	1036
1607	320	169.357	0.529	0.86	91	1.19	103	0.034	100.2	7.3	-0.95	585	242	200	363	386	3218	355.2	315	81	51	80	0.057	924
1617	330	174.655	0.530	0.86	91	1.23	102	0.034	100.3	6.5	-0.73	545	245	207	383	396	3218	355.2	291	81	51	81	0.059	877
1627	340	179.960	0.531	0.86	91	1.19	101	0.034	100.4	6.1	-0.42	489	247	204	374	396	3218	344.0	279	81	51	81	0.062	834
1637	350	185.265	0.530	0.86	91	1.18	100	0.034	100.4	5.8	-0.30	455	249	198	358	395	3218	330.9	258	80	51	80	0.064	756
1647	360	190.573	0.531	0.86	91	1.22	98	0.034	100.4	5.4	-0.25	417	251	193	347	379	3218	317.6	242	80	51	80	0.067	688
1657	370	195.878	0.530	0.86	91	1.22	98	0.034	100.4	5.4	-0.21	388	255	189	336	366	3218	306.9	230	79	51	80	0.069	646
1667	380	201.184	0.531	0.86	91	1.21	97	0.034	100.4	5.1	-0.22	371	259	185	330	357	3218	300.4	224	79	51	80	0.070	630
1707	390	206.491	0.531	0.86	91	1.24	97	0.034	100.5	4.9	-0.26	362	262	184	324	347	3218	295.8	220	79	51	81	0.070	636
1717	400	211.798	0.531	0.86	91	1.23	96	0.034	100.5	4.6	-0.25	360	264	188	324	340	3218	295.0	222	79	51	80	0.070	646
1727	410	217.107	0.531	0.86	91	1.20	96	0.034	100.5	4.4	-0.25	354	266	193	328	337	3218	295.3	222	79	51	81	0.071	635
1737	420	222.416	0.531	0.86	91	1.22	96	0.034	100.5	4.1	-0.26	347	268	196	331	336	3218	295.6	218	79	52	81	0.072	610
1747	430	227.723	0.531	0.86	91	1.23	95	0.034	100.5	3.9	-0.22	340	270	196	330	337	3218	294.5	213	79	52	80	0.072	580
1757	440	233.031	0.531	0.86	91	1.22	95	0.034	100.5	3.7	-0.20	335	272	195	327	337	3218	293.1	210	79	52	80	0.072	561
1807	450	238.338	0.531	0.86	91	1.23	95	0.034	100.5	3.5	-0.21	330	274	195	321	339	3218	291.8	209	79	52	80	0.072	564
1817	460	243.645	0.531	0.86	91	1.27	95	0.034	100.5	3.3	-0.20	322	277	194	317	340	3218	290.0	205	80	52	81	0.073	546
1827	470	248.956	0.531	0.86	91	1.25	95	0.034	100.6	3.1	-0.19	318	280	193	313	340	3218	288.8	203	79	52	80	0.074	541

Signature/Date: *Jay Elak* 7/31/12

Test Time	ET	Gas Meter (ft3)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Tun Temp	Dil Tun dp	Pro Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
1837	480	254.266	0.531	0.86	91	1.28	95	0.034	100.6	2.9	-0.19	316	283	193	311	340	3218	288.5	202	79	52	81	0.074	541
1847	490	259.574	0.531	0.86	91	1.25	95	0.034	100.5	2.7	-0.19	315	285	192	308	340	3218	287.9	201	79	52	80	0.074	542
1857	500	264.882	0.531	0.86	91	1.22	95	0.034	100.6	2.5	-0.19	315	287	183	305	339	3218	287.6	202	78	52	80	0.074	545
1907	510	270.187	0.531	0.85	91	1.23	94	0.034	100.5	2.3	-0.20	315	288	192	304	338	3218	287.4	202	78	52	80	0.074	546
1917	520	275.493	0.531	0.86	91	1.25	94	0.034	100.5	2.2	-0.16	315	289	194	299	338	3218	287.0	202	78	52	80	0.063	548
1927	530	280.800	0.531	0.85	91	1.25	94	0.034	100.5	2.0	-0.20	317	289	198	298	336	3218	287.9	202	78	52	80	0.063	551
1937	540	286.110	0.531	0.86	91	1.23	94	0.034	100.6	1.8	-0.19	316	289	203	299	338	3218	289.1	202	79	52	80	0.063	549
1947	550	291.425	0.532	0.86	91	1.26	94	0.034	100.7	1.6	-0.19	315	290	202	296	339	3218	288.3	201	79	52	80	0.063	548
1957	560	296.739	0.531	0.86	91	1.26	94	0.034	100.7	1.4	-0.20	315	290	198	296	339	3218	287.7	202	79	52	80	0.063	545
2007	570	302.052	0.531	0.86	91	1.23	94	0.034	100.7	1.2	-0.20	313	291	198	297	341	3218	287.8	202	79	52	81	0.063	540
2017	580	307.365	0.531	0.86	91	1.23	94	0.034	100.7	1.0	-0.20	312	293	197	295	343	3218	288.0	201	79	52	80	0.063	538
2027	590	312.676	0.531	0.86	91	1.26	94	0.034	100.7	0.8	-0.22	315	295	196	294	342	3218	288.2	202	79	52	80	0.058	545
2037	600	317.989	0.531	0.86	91	1.28	94	0.034	100.7	0.8	-0.17	315	296	192	291	340	3218	286.8	202	79	52	80	0.058	546
2047	610	323.302	0.531	0.86	91	1.25	94	0.034	100.7	0.4	-0.20	315	298	191	288	338	3218	286.1	202	79	52	80	0.058	545
2057	620	328.617	0.532	0.86	91	1.26	93	0.034	100.8	0.2	-0.17	312	299	185	285	337	3218	283.6	200	79	52	80	0.056	538
2107	630	333.931	0.531	0.86	91	1.25	93	0.034	100.8	0.0	-0.22	308	300	179	283	333	3218	280.8	198	79	52	80	0.056	533
AVG	NA	NA	0.530	0.860	89.391	1.183	95.969	0.034	100.511	NA	NA	395.312	256.625	170.797	284.469	312.703	3218.000	NA	242.297	78.937	50.859	79.281	0.067	701.328

Signature/Date:  8/7/12

Run 3:



Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (In-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
1025	0	15.5	0.000	739	328	369	380	480	3218	455.2	490	78	0.071	1067	21.48	0.00	0.00	NaN
1035	10	13.9	-1.581	675	317	232	394	464	3218	416.2	388	78	0.081	985	21.57	0.00	0.00	NaN
1045	20	12.2	-1.706	631	308	232	409	478	3218	411.2	376	77	0.087	950	22.32	0.00	0.00	NaN
1055	30	10.9	-1.340	621	298	237	414	482	3218	410.3	362	78	0.092	952	22.73	0.00	0.00	NaN
1105	40	9.7	-1.142	603	293	242	421	485	3218	408.7	359	77	0.093	951	22.99	0.00	0.00	NaN
1115	50	8.3	-1.419	608	290	235	418	483	3218	407.0	384	77	0.089	945	23.16	0.00	0.00	NaN
1125	60	7.4	-0.875	615	288	219	399	466	3218	397.5	333	77	0.100	902	23.35	0.00	0.00	NaN
1135	70	7.1	-0.302	535	287	212	383	449	3218	373.2	300	78	0.110	784	10.13	9.03	0.00	0.00
1144	79	6.9	-0.257	468	287	205	368	438	3218	353.3	320	77	0.099	694	10.75	8.86	0.00	0.00

Test Time	ET	Gas Meter (ft/s)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Tun Temp	Dil Tun Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
1145	0	0.000	0.000	-0.02	81	0.05	107	0.034	30.7	30.69	473	287	238	371	438	3218	361.3	305	78	75	77	0.108	687
1155	10	5.235	0.524	0.86	81	1.10	102	0.034	29.9	-0.76	454	290	254	320	376	3218	334.8	290	80	47	77	0.104	637
1205	20	10.491	0.526	0.86	82	1.12	99	0.034	29.3	-0.62	416	292	243	287	336	3218	314.7	282	79	48	78	0.107	648
1215	30	15.750	0.526	0.86	83	1.18	98	0.034	28.7	-0.60	398	288	232	266	310	3218	298.8	274	79	48	77	0.110	630
1225	40	21.009	0.526	0.85	84	1.18	98	0.034	28.1	-0.65	368	282	140	251	292	3218	266.7	263	79	46	78	0.112	641
1235	50	26.273	0.526	0.85	86	1.16	98	0.034	27.3	-0.72	372	275	131	242	280	3218	259.8	271	79	46	79	0.110	694
1245	60	31.536	0.526	0.85	87	1.19	99	0.034	26.6	-0.76	380	287	128	237	272	3218	256.6	279	80	48	79	0.108	739
1255	70	36.809	0.527	0.85	87	1.15	98	0.034	25.8	-0.77	390	260	127	233	267	3218	255.4	285	80	49	79	0.107	748
1306	80	42.087	0.526	0.86	88	1.19	100	0.034	25.0	-0.84	410	254	128	233	267	3218	258.5	300	80	49	80	0.105	814
1315	90	47.389	0.530	0.87	89	1.20	102	0.034	24.0	-0.99	456	250	134	237	275	3218	270.3	312	80	49	79	0.101	824
1325	100	52.692	0.530	0.86	89	1.18	103	0.034	22.8	-1.15	504	246	140	246	284	3218	286.0	328	81	49	80	0.098	877
1335	110	57.994	0.530	0.86	90	1.20	105	0.034	21.6	-1.26	560	243	146	259	319	3218	303.4	344	81	49	80	0.095	916
1345	120	63.292	0.530	0.86	90	1.17	107	0.034	20.1	-1.46	595	241	154	277	344	3218	322.5	365	82	50	80	0.091	956
1356	130	68.590	0.530	0.86	91	1.20	111	0.034	18.3	-1.81	603	239	172	311	379	3218	340.8	381	83	50	81	0.085	945
1405	140	73.891	0.530	0.86	91	1.17	110	0.034	16.6	-1.70	606	238	187	335	402	3218	353.7	368	83	50	81	0.091	935
1415	150	79.191	0.530	0.86	91	1.21	110	0.034	15.3	-1.35	604	238	197	353	415	3218	361.4	372	83	50	81	0.091	968
1425	160	84.486	0.530	0.86	92	1.19	110	0.034	13.8	-1.44	612	238	206	366	428	3218	369.7	370	84	50	82	0.091	969
1435	170	89.787	0.530	0.86	92	1.23	110	0.034	12.4	-1.38	618	238	212	378	442	3218	377.7	370	83	51	82	0.091	968
1445	180	95.095	0.531	0.86	92	1.20	110	0.034	11.1	-1.31	614	240	215	394	462	3218	384.9	369	83	51	82	0.091	975
1455	190	100.412	0.532	0.86	93	1.20	109	0.034	10.1	-1.02	591	242	213	404	469	3218	383.9	360	83	51	83	0.095	972
1505	200	105.727	0.532	0.87	93	1.20	109	0.034	9.2	-0.91	573	244	211	404	469	3218	378.2	351	82	51	82	0.098	982
1515	210	111.041	0.531	0.86	93	1.22	108	0.034	8.5	-0.74	556	247	209	400	452	3218	372.8	340	82	51	83	0.100	986
1525	220	116.357	0.532	0.86	93	1.18	107	0.034	7.8	-0.59	525	250	212	395	439	3218	364.0	328	82	51	81	0.101	974
1535	230	121.673	0.532	0.86	93	1.21	105	0.034	7.3	-0.59	501	251	204	385	432	3218	354.8	318	82	51	81	0.103	841
1545	240	126.987	0.531	0.87	93	1.23	105	0.034	6.7	-0.53	466	253	200	371	422	3218	346.3	310	82	52	81	0.105	831
1555	250	132.301	0.531	0.86	93	1.18	105	0.034	6.2	-0.54	473	254	202	360	413	3218	340.5	313	82	52	82	0.106	843
1605	260	137.613	0.531	0.86	93	1.25	105	0.034	5.7	-0.53	480	255	214	355	411	3218	343.0	320	83	52	82	0.105	866
1615	270	142.925	0.531	0.86	93	1.21	105	0.034	5.2	-0.44	467	256	227	355	411	3218	343.3	306	83	52	83	0.107	904
1625	280	148.239	0.531	0.86	93	1.25	103	0.034	4.9	-0.33	437	256	234	353	412	3218	338.8	288	83	52	82	0.112	730
1635	290	153.550	0.532	0.86	93	1.24	102	0.034	4.6	-0.30	414	261	237	349	410	3218	334.2	277	82	52	81	0.114	892
1645	300	158.861	0.532	0.86	93	1.21	101	0.034	4.3	-0.30	400	263	240	346	408	3218	331.4	270	82	52	80	0.116	672
1655	310	164.201	0.532	0.86	92	1.22	100	0.034	4.0	-0.29	389	267	238	348	404	3218	329.1	265	82	52	81	0.117	663
1705	320	169.523	0.532	0.86	92	1.23	100	0.034	3.6	-0.27	381	271	231	347	399	3218	325.7	260	81	52	80	0.119	686
1715	330	174.848	0.532	0.86	92	1.22	99	0.034	3.5	-0.24	372	275	229	345	394	3218	322.9	255	81	52	80	0.121	621
1725	340	180.171	0.532	0.86	92	1.21	100	0.034	3.2	-0.28	366	278	218	344	397	3218	320.6	257	81	52	81	0.119	607
1735	350	185.488	0.532	0.86	92	1.20	99	0.034	3.0	-0.23	363	282	202	338	400	3218	316.9	247	81	52	81	0.122	602
1745	360	190.809	0.532	0.86	92	1.23	99	0.034	2.8	-0.22	361	285	195	331	396	3218	313.6	246	81	52	82	0.122	607
1755	370	196.130	0.532	0.86	92	1.22	98	0.034	2.6	-0.22	358	288	189	324	380	3218	309.8	244	81	52	81	0.123	606
1805	380	201.452	0.532	0.86	92	1.25	98	0.034	2.3	-0.21	354	290	188	319	384	3218	306.8	241	81	52	80	0.123	600
1815	390	206.777	0.532	0.86	92	1.24	97	0.034	2.1	-0.22	347	291	186	317	377	3218	304.1	238	81	52	80	0.123	586
1825	400	212.099	0.532	0.87	91	1.20	97	0.034	1.9	-0.22	343	292	188	316	372	3218	302.1	237	80	52	78	0.123	582
1835	410	217.420	0.532	0.87	91	1.25	97	0.034	1.7	-0.21	342	293	187	315	369	3218	301.2	238	80	52	78	0.123	592
1845	420	222.742	0.532	0.87	91	1.25	97	0.034	1.5	-0.22	342	293	186	313	368	3218	300.5	239	80	52	79	0.123	583
1855	430	228.063	0.532	0.87	91	1.21	97	0.034	1.3	-0.20	342	292	184	308	365	3218	298.2	239	80	52	78	0.123	604
1905	440	233.383	0.532	0.86	91	1.21	97	0.034	1.0	-0.23	343	292	186	306	363	3218	297.9	240	80	52	76	0.123	607
1915	450	238.699	0.532	0.86	90	1.21	96	0.034	0.9	-0.22	341	291	188	304	362	3218	297.1	240	80	51	78	0.123	601
1925	460	244.015	0.532	0.86	90	1.27	96	0.034	0.6	-0.20	337	289	190	303	359	3218	295.7	238	80	51	78	0.123	592
1935	470	249.332	0.532	0.87	90	1.23	96	0.034	0.4	-0.22	334	288	189	301	355	3218	293.3	238	80	51	77	0.122	563

Signature/Date: *[Signature]*
8/17/12

MFG: Regency
Model #: F5100

Run #: EPA 3

Project #: 015-S-012-1
Run Date: Aug 01/12

Test Time	ET	Gas Meter (ft3)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Tun Temp	Dil Tunn dP	Pro Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
1945	480	254.648	0.532	0.86	90	1.21	95	0.034	101.1	0.2	-0.23	334	286	191	298	354	3218	292.5	241	80	51	77	0.122	599
1955	490	259.961	0.531	0.87	89	1.28	95	0.034	101.1	0.0	-0.13	327	284	191	298	354	3218	290.9	234	80	51	78	0.124	566
AVG	NA	NA	0.531	0.861	90.300	1.184	101.920	0.034	100.651	NA	NA	439.640	267.360	194.900	322.960	377.960	3218.000	NA	290.920	81.100	51.220	79.960	0.110	740.420

Greg E. Ash
8/17/12

Run 4:



Pre-Burn Time	ET	Scale (lbs)	Weight Change	FB Top (oF)	FB Bot (oF)	FB Back (oF)	FB Left (oF)	FB Right (oF)	FB Int (oF)	Avg Surf (oF)	Stack (oF)	AMB (oF)	Draft (In-H2O)	Cat Temp (oF)	O2 (%)	CO2 (%)	CO (%)	CO Ratio
2149	0	20.9	0.000	553	358	439	430	518	3218	458.4	395	80	0.052	763	24.71	1.91	0.51	20.94
2159	10	19.1	-1.775	543	359	214	374	446	3218	387.0	419	80	0.079	906	24.79	1.91	0.51	21.02
2209	20	16.9	-2.212	622	352	187	345	411	3218	383.8	461	79	0.071	1051	24.85	1.87	0.50	21.18
2219	30	14.3	-2.613	668	337	188	345	417	3218	380.5	465	79	0.073	1035	24.81	1.86	0.50	21.18
2229	40	12.0	-2.305	680	321	197	359	445	3218	400.3	456	79	0.076	1059	24.72	1.86	0.50	21.18
2239	50	10.1	-1.867	672	306	209	376	481	3218	408.5	445	79	0.078	1026	24.67	1.83	0.49	21.17
2249	60	9.3	-1.787	662	296	216	392	515	3218	420.3	447	78	0.078	1041	24.66	1.79	0.48	21.13
2259	70	5.5	-1.800	670	292	233	420	527	3218	428.3	463	79	0.074	1019	24.59	1.76	0.47	21.16
2300	72	6.0	-0.467	669	298	238	425	530	3218	431.2	529	77	0.071	1046	25.07	1.60	0.43	21.17

Signature/Date:  8/17/12

Test Time	ET	Gas Meter (ft3)	Sample Rate (cfm)	Orifice dH	Meter (deg F)	Meter Vac	Dil Temp	Dil Tunn dP	Pro Rate (10%)	Scale Reading	Weight Change	FB Top	FB Bot	FB Back	FB Left	FB Right	FB Int	Avg Surf	Stack	Filter	Imping Exit	AMB	Draft	Cat Temp
2301	0	0.000	0.000	-0.03	82	0.06	141	0.032	0.0	29.7	29.86	661	292	269	428	536	3218	445.3	504	79	75	78	0.073	1042
2311	10	5.247	0.525	0.85	83	1.17	130	0.032	100.7	26.4	-3.21	710	294	307	390	485	3218	437.4	503	82	47	80	0.087	1087
2321	20	10.523	0.528	0.86	84	1.21	127	0.032	100.9	23.8	-2.60	760	294	311	374	467	3218	441.3	506	84	48	80	0.067	1120
2331	30	15.802	0.528	0.86	85	1.18	127	0.032	100.7	21.4	-2.42	775	288	315	374	465	3218	443.3	507	84	48	80	0.067	1121
2341	40	21.098	0.530	0.87	86	1.27	133	0.032	100.7	19.0	-2.42	737	280	195	381	471	3218	412.9	498	85	48	78	0.068	1123
2351	50	26.398	0.530	0.86	87	1.22	131	0.032	100.7	16.6	-2.46	724	272	190	391	481	3218	411.6	491	85	48	78	0.068	1102
0001	60	31.695	0.530	0.86	88	1.22	131	0.032	100.5	14.2	-2.34	720	266	194	404	499	3218	416.6	486	85	48	79	0.088	1107
0011	70	36.998	0.530	0.86	88	1.27	129	0.032	100.6	12.0	-2.22	710	264	207	411	525	3218	423.5	470	85	48	78	0.071	1093
0021	80	42.303	0.530	0.86	89	1.30	126	0.032	100.6	10.1	-1.92	655	265	218	427	532	3218	427.3	460	84	48	79	0.074	1064
0031	90	47.612	0.531	0.86	89	1.25	125	0.032	100.6	8.3	-1.80	653	268	233	448	534	3218	432.8	461	84	48	79	0.074	1066
0041	100	52.919	0.531	0.86	89	1.29	124	0.032	100.5	6.7	-1.57	650	273	245	456	539	3218	438.5	453	84	48	79	0.077	1037
0051	110	58.225	0.531	0.86	89	1.27	121	0.032	100.5	5.4	-1.26	659	279	254	482	543	3218	439.2	443	84	48	78	0.078	1011
0101	120	63.529	0.530	0.86	89	1.25	118	0.032	100.5	4.6	-0.90	627	287	245	458	533	3218	429.9	416	83	48	78	0.082	962
0111	130	68.833	0.530	0.86	89	1.26	116	0.032	100.5	3.9	-0.63	567	292	235	436	523	3218	410.5	394	83	49	78	0.087	883
0121	140	74.139	0.531	0.86	89	1.27	113	0.032	100.6	3.4	-0.50	521	296	221	413	507	3218	391.7	374	82	49	76	0.090	822
0131	150	79.446	0.531	0.86	89	1.25	110	0.032	100.7	3.0	-0.42	468	297	216	397	480	3218	377.6	358	81	49	76	0.095	774
0141	160	84.750	0.530	0.86	89	1.26	109	0.032	100.6	2.6	-0.39	459	298	216	390	453	3218	369.1	344	81	49	75	0.097	736
0151	170	90.051	0.530	0.86	88	1.28	109	0.032	100.7	2.2	-0.42	445	300	226	384	481	3218	367.0	342	81	48	76	0.099	725
0201	180	95.353	0.530	0.86	88	1.30	108	0.032	100.7	1.7	-0.46	436	305	247	382	490	3218	371.8	338	80	48	77	0.099	712
0211	190	100.652	0.530	0.86	88	1.26	108	0.032	100.7	1.3	-0.47	433	309	274	387	501	3218	381.0	343	80	48	76	0.097	723
0221	200	105.953	0.530	0.86	88	1.25	108	0.032	100.7	0.8	-0.43	435	316	254	405	488	3218	379.6	340	80	48	76	0.099	717
0231	210	111.254	0.530	0.85	88	1.31	107	0.032	100.8	0.4	-0.41	430	324	251	417	478	3218	380.1	337	80	48	75	0.100	707
0241	220	116.555	0.530	0.85	88	1.29	107	0.032	100.8	0.0	-0.40	428	332	255	419	475	3218	381.5	335	80	48	76	0.100	696
AVG	NA	NA	0.530	0.860	87.478	1.204	119.913	0.032	100.650	NA	NA	600.130	290.913	243.391	410.087	501.130	3218.000	NA	421.870	82.435	49.304	77.609	0.082	930.870

SS *7/12*

EPA Method 28 - Weighted Average



Weighted Average: 1.46 (g/hr)

Client: FPI
Model: 5100
Tracking No.: 12
Project No.: 015-S-012-1
Test Dates: 7/30/12-8/2/12

Signature/Date: *[Signature]* 8/7/12

Burn Rate Category 2
Burn Rate (kg/hr-dry) 0.85
Emissions Rate (g/hr) 0.7
Emissions Rate Cap (g/hr) 15
Weighting Factor 25.35%
Run Number 1

Burn Rate Category 2
Burn Rate (kg/hr-dry) 1.08
Emissions Rate (g/hr) 1.1
Emissions Rate Cap (g/hr) 15
Weighting Factor 25.48%
Run Number 2

Burn Rate Category 3
Burn Rate (kg/hr-dry) 1.40
Emissions Rate (g/hr) 1.7
Emissions Rate Cap (g/hr) 15
Weighting Factor 31.55%
Run Number 3

Burn Rate Category 4
Burn Rate (kg/hr-dry) 3.04
Emissions Rate (g/hr) 2.6
Emissions Rate Cap (g/hr) 18
Weighting Factor 17.62%
Run Number 4

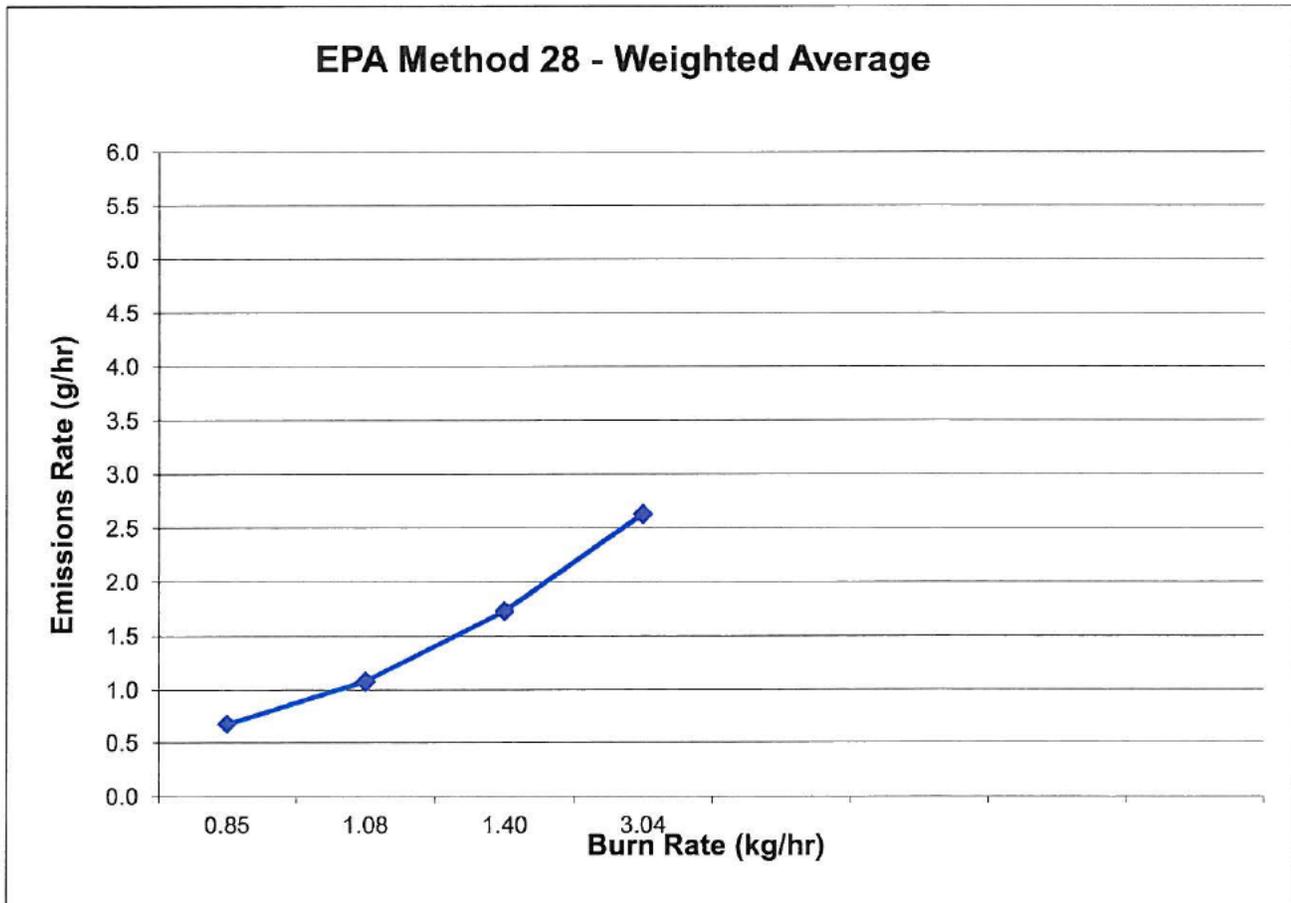


EPA Method 28 - Weighted Average



Client: FPI
Model: 5100
Tracking No.: 12
Project No.: 015-S-012-1
Test Dates: 7/30/12-8/2/12

Signature/Date: *[Signature]* 8/7/12





Client:	FPI
Model:	5100
Tracking No.:	12
Project No.:	015-S-012-1
Test Dates:	7/30/12-8/2/12

Run Number	Burn Rate (kg/hr)	Emmissions Rate (g/hr)
1	0.85	0.7
2	1.08	1.1
3	1.40	1.7
4	3.04	2.6

Total Runs:

