	B	C
1	**Source Description**	
2		
3	Phase I ID No.	712
4	EPA ID No.	NYD002014595
5	Facility Name	Nepera Incorporated
6	Facility Location	
7	City	Harriman
8	State	New York
9	Unit ID Name/No.	Incinerator
10	Other Sister Facilities	
11	Combustor Class	Onsite Incinerator
12	Combustor Type	Liquid injection
13	Combustor Characteristics	
14	Capacity (MMBtu/hr)	
15	Soot Blowing	Yes. Run 2 cond. 1
16	APCS	WHB
17	APCS Characteristics	Waste Heat Boiler
18	Hazardous Wastes	Liquid
19	Haz Waste Description	T-911, T-105 residue wastes, organic liq wastes
20	Supplemental Fuel	Fuel oil and natural gas
21		
22	Stack Characteristics	
23	Diameter (ft)	5.00
24	Height (ft)	25.7
25	Gas Velocity (ft/sec)	48.5
26	Gas Temperature (°F)	770
27		
28	Permitting Status	Tier I for all metals except Cr (tier III)
29	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**712C10**	
4		
5	Report Name/Date	Trial Burn Report, November 1995
6	Report Prepare	Entropy, Inc.
7	Testing Firm	Focus Environmental, Inc
8	Testing Dates	November 14-15, 1995
9	Condition Descr	Trial burn, max feedrate, low temp
10	Content	PM, HCl/Cl2, DRE, PCDD/F
11		
12	**712C11**	
13		
14	Report Name/Date	Trial Burn Report, November 1995
15	Report Prepare	Entropy, Inc.
16	Testing Firm	Focus Environmental, Inc
17	Testing Dates	November 16, 1995
18	Condition Descr	Trial burn, max feedrate, high temp
19	Content	PM, HCl/Cl2, metals
20		
21	**712C1**	
22		
23	Report Name/Date	Stationary Source Sampling Report, prepared for Nepera, Incorporated, prepared by ENTROPY Environmentalists, Emissions Testing, Incinerator Stack R238 VENT, February 1993, Harriman, New York, Reference # 11546
24	Report Prepare	ENTROPY Inc.
25	Testing Firm	ENTROPY Inc.
26	Cond Descr	?
27	Test Dates	2/3/93
28	Cond Date	02/01/93
29		
30	**712C2**	
31		
32	Report Name/Date	Stationary Source Sampling Report, prepared for Nepera, Incorporated, prepared by ENTROPY Environmentalists, Emissions Testing, Incinerator Stack R238 VENT, September 1992, Harriman, New York, Reference # 11179
33	Report Prepare	ENTROPY Inc.
34	Testing Firm	ENTROPY Inc.
35	Cond Descr	?
36	Test Dates	September 23-24, 1992
37	Cond Date	10/01/92

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 1**											
2												
3		Com Units		7% O2								
4												
5	**712C10**					R1		R2		R3		Cond Avg
6												
7	PM		gr/dscf	y		0.0277		0.0181		0.0328		0.026
8	CO (RA)		ppmv	y		20.5		18.5		12.1		17.033
9	CO (MHRA)		ppmv	y		28.1		21.7		12.5		20.767
10	HCN		ug/dscm	y		20.1		61.3		32		37.800
11												
12	HCl		ppmv	y	nd	0.0212	nd	0.0196	nd	0.0216		
13	Cl2		ppmv	y		0.123		0.0202	nd	0.0223		
14	TCl		ppmv	y		0.26		0.05		0.03		0.1
15												
16	POHC DRE	Benzene										
17	POHC Feedrate		lb/hr			596.2		661.3		658.7		
18	Emission Rate		lb/hr		nd	1.02E-04	nd	5.51E-05	nd	5.71E-05		
19	DRE		%			99.99998		99.999991		99.99998		
20												
21	POHC DRE	Pyridyne										
22	POHC Feedrate		lb/hr			385.29		326.29		299.66		
23	Emission Rate		lb/hr			8.15E-04		3.33E-04		4.32E-04		
24	DRE		%			99.9997		99.9998		99.9998		
25												
26	Sampling Train	PM, HCl/Cl2										
27	Stack Gas Flowrate		dscfm			16077		15504		15690		15757.0
28	O2		%			5.2		5		5.2		5.1
29	Moisture		%			33.3		33.9		34.4		33.9
30	Temperature		°F			771		776		773		773.3
31												
32	Sampling Train	PCDD/F										
33	Stack Gas Flowrate		dscfm			15819.0		15005		14916.0		15246.7
34	O2		%			5.2		5		5.2		5.1
35	Moisture		%			33.4		33.4		33.6		33.5
36	Temperature		°F			774		783		793		783.3
37												
38	**712C11**					R1		R2		R3		Cond Avg
39												
40	PM		gr/dscf	y		0.0165		0.0281		0.0147		0.020
41	CO (RA)		ppmv	y		0.1		0.1		0.1		0.1
42	CO (MHRA)		ppmv	y		0.6		0.1		0.1		0.3
43	HCl		ppmv	y	nd	0.0205	nd	0.0202	nd	0.0223		
44	Cl2		ppmv	y	nd	0.021		0.439		0.487		
45	TCl		ppmv	y		0.03		0.89		0.99		0.6
46												
47	Metals											
48	Antimony		ug/dscm	y	nd	0.386	nd	1.37	nd	0.512		
49	Arsenic		ug/dscm	y	nd	0.794	nd	0.931	nd	0.822		
50	Barium		ug/dscm	y		3.89	nd	4.74		4.64		
51	Beryllium		ug/dscm	y	nd	0.0672	nd	0.062	nd	0.0719		
52	Cadmium		ug/dscm	y	nd	0.0672	nd	0.062		0.116		
53	Chromium		ug/dscm	y		12.4		12.5		13.2		
54	Hexavalent Chromium		ug/dscm	y		3.65		6.42		5.32		
55	Lead		ug/dscm	y		2.14		1.85		3.76		
56	Mercury		ug/dscm	y	nd	2.55	nd	2.79	nd	2.62		1.3
57	Nickel		ug/dscm	y		6.89		8.36		8.81		
58	Selenium		ug/dscm	y	nd	0.533		1.53	nd	0.587		
59	Silver		ug/dscm	y	nd	0.134	nd	0.124	nd	0.143		
60	Thallium		ug/dscm	y	nd	0.202	nd	0.186	nd	0.215		
61	SVM		ug/dscm	y		2.17		1.88		3.88		2.6
62	LVM		ug/dscm	y		12.83		13.00		13.65		13.2
63												
64	Sampling Train	PM, HCl/Cl2										
65	Stack Gas Flowrate		dscfm			16958		14463		14428		15283.0
66	O2		%			4.1		3		4.6		3.9
67	Moisture		%			27.7		36.6		36.3		33.5
68	Temperature		°F			803		782		786		790.3
69												
70	Sampling Train	Cr+6										
71	Stack Gas Flowrate		dscfm			13910.0		15608		14358.0		14625.3

	B	C	D	E	F	G	H	I	J	K	L	M
72	O2		%			4.1		3		4.6		3.9
73	Moisture		%			30.9		28.8		31.2		30.3
74	Temperature		°F			804		790		794		796.0
75												
76	Sampling Train	Metals										
77	Stack Gas Flowrate		dscfm			19564.0		17156		17661.0		18127.0
78	O2		%			4.1		3		4.6		3.9
79	Moisture		%			32.1		36.8		36.8		35.2
80	Temperature		°F			819		813		804		812.0

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 2**											
2												
3	**712C1**					R1		R2		R3		Cond Avg
4												
5	PM		gr/dscf	y		0.0234		0.0230		0.0663		0.0376
6												
7	Arsenic		ug/dscm	y	nd	0.9	nd	0.9		2.5		
8	Beryllium		ug/dscm	y	nd	0.1	nd	0.1	nd	0.1		
9	Cadmium		ug/dscm	y	nd	0.4		0.5		0.6		
10	Chromium		ug/dscm	y		24.8		31.9		93.4		
11	Chromium (Hex)		ug/dscm	y		12.4		6.5		4.8		
12	Nickel		ug/dscm	y		77.0		77.7		242.9		
13												
14	SVM (Cd only)		ug/dscm	y		0.2		0.2		0.3		0.24
15	LVM		ug/dscm	y		25.3		32.4		96.0		51.2
16												
17	Sampling Train	Cr Hex										
18	Moisture					33.0		32.6		34.5		
19	Oxygen					5.2		5.1		5.1		
20	Stack gas flowrate					21319.0		21044.0		21086.0		
21	Temperature					708.0		714.0		712.0		
22												
23	Sampling Train	Metals										
24	Moisture					34.5		35.0		34.8		
25	Oxygen					5.2		5.1		5.1		
26	Stack gas flowrate					21542.0		20654.0		21384.0		
27	Temperature					697.0		717.0		689.0		
28												
29												
30												
31	**712C2**					R1		R2		R3		Cond Avg
32												
33	PM		gr/dscf	y		0.0207		0.0271		0.0207		0.0228
34												
35	Arsenic		ug/dscm	y	nd	0.5		0.8	nd	0.5		
36	Beryllium		ug/dscm	y		0.1		0.1		0.1		
37	Cadmium		ug/dscm	y	nd	0.5		0.8	nd	0.5		
38	Chromium		ug/dscm	y		9.4		11.5		6.6		
39	Chromium (Hex)		ug/dscm	y		6.3		6.5		3.7		
40	Nickel		ug/dscm	y		7.9		9.6		5.8		
41	Selenium		ug/dscm	y		1.2	nd	0.5		0.7		
42												
43	SVM		ug/dscm	y		0.3		0.8		0.3		0.44
44	LVM		ug/dscm	y		9.7		12.3		6.9		9.6
45												
46	Sampling Train	Cr Hex										
47	Moisture					35.8		35.9		36.8		
48	Oxygen					5.1		4.6		4.4		
49	Stack gas flowrate					18527.0		17998.0		18225.0		
50	Temperature					675.0		676.0		687.0		
51												
52	Sampling Train	Metals										
53	Moisture					35.8		35.2		36.2		
54	Oxygen					5.1		4.6		4.4		
55	Stack gas flowrate					16819.0		17549.0		16907.0		
56	Temperature					674.0		677.0		685.0		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	**Feedstream 1**																									
2																										
3																										
4	**712C10**	**Trial burn**			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3	
5																										
6	Feedstream Description				Wastewater		Wastewater		Wastewater		Wastewater		T911		T911		T911		T911		R240 Fumes		R240 Fumes		R240 Fumes	
7	Feed Rate		kg/min		120.1		120.3		120.3		120.2		11		11.1		11		11.0		3		3.6		3.7	
8	Feed Rate		m3/min																							
9	Density		g/ml		0.937		0.99		0.991				0.997		0.921		0.926									
10	Heating Value		MM Btu/lb																							
11	Ash		g/min		3.600		31.280		25.26		20.0		3.3		3.33		3.31		3.3							
12	Chlorine		g/min		3.330		2.920		3.64		3.3		0		0.12		0.12		0.2							
13																										
14	Stack Gas Flowrate		dscfm		15757.0																					
15	Oxygen		%		5.1																					
16																										
17	Thermal Feedrate		MMBtu/hr																							
18	Estimated Firing Rate		MMBtu/hr																							
19																										
20	*Feedrate MTEC Calculations*																									
21	Ash		mg/dscm	y	7.1		61.9		50.0		39.7		6.5		6.6		6.5		6.6							
22	Chlorine		ug/dscm		6589.1		5777.8		7202.5		6523.2		870.6		237.4		237.4		448.5							
23																										
24	**712C11**	**Trial burn**			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3	
25																										
26	Feedstream Description				Wastewater		Wastewater		Wastewater		Wastewater		T-105		T-105		T-105		T-105		R240 Fumes		R240 Fumes		R240 Fumes	
27	Feed Rate		kg/min		120.2		120.2		120.2		120.2		11.1		11.1		11.1		11.1		3.9		3.8		4	
28	Feed Rate		m3/min																							
29	Density		g/ml		0.998		0.993		0.992				0.977		1		0.994									
30	Heating Value		MM Btu/lb																							
31	Ash		g/min		24.0		25.2		22.84		24.0		28.6		37.12		9.64		25.1							
32	Chlorine		g/min		5.3		4.8		3.64		4.6		0		0.11		0.11		0.1							
33	Chromium		mg/min	nd	3.61	nd	2.16	nd	1.92		1.3	nd	6.4	nd	6.4	nd	6.51		3.2		0.0144		0.016		0.0168	
34	Antimony		mg/min	nd	1.08	nd	1.08	nd	1.08		0.5	nd	8.6	nd	8.6	nd	8.69		4.3		0.00622		0.00981		0.00681	
35	Arsenic		mg/min		22		20.6		20.4		21.0		15.0		16.2		15.00		15.4		0.0306		0.0255		0.0229	
36	Barium		mg/min		3.61		2.04		1.68		2.4	nd	4.3	nd	4.3	nd	4.34		2.2	nd	0.00422		0.00528	nd	0.00702	
37	Beryllium		mg/min	nd	0.24	nd	0.24	nd	0.24		0.1	nd	2.2	nd	2.2	nd	2.17		1.1	nd	0.000355	nd	0.000383	nd	0.000384	
38	Cadmium		mg/min	nd	0.24	nd	0.24	nd	0.24		0.1	nd	2.2	nd	2.2	nd	2.17		1.1	nd	0.000362	nd	0.000408	nd	0.000685	
39	Lead		mg/min		3.37		3.25		3.13		1.6		7.8		4.3		4.34		5.5		0.0111		0.00635	nd	0.00398	
40	Mercury		mg/min	nd	4.69		4.45	nd	4.33		3.0	nd	0.4		0.4	nd	0.42		0.3	nd	0.00795	nd	0.00686	nd	0.00741	
41	Nickel		mg/min		1.68		1.08		0.841		1.2	nd	6.4		7.8	nd	6.51		4.7	nd	0.00784	nd	0.00868	nd	0.00872	
42	Selenium		mg/min		53.8		51.4		50.2		51.8		66.2		36.9		65.30		56.1		0.104		0.101		0.0749	
43	Silver		mg/min	nd	0.481	nd	0.481	nd	0.481		0.2	nd	4.3	nd	4.3	nd	4.34		2.2	nd	0.000714	nd	0.000769	nd	0.000768	
44	Thallium		mg/min	nd	0.841	nd	0.841	nd	0.841		0.4	nd	10.7	nd	10.7	nd	10.90		5.4	nd	0.00107	nd	0.00115	nd	0.00115	
45																										
46	Stack Gas Flowrate		dscfm		18127.0																					
47	Oxygen		%		3.9																					
48																										
49	Thermal Feedrate		MMBtu/hr																							
50	Estimated Firing Rate		MMBtu/hr																							
51																										
52	*Feedrate MTEC Calculations*																									
53	Ash		mg/dscm	y	47.6		49.9		45.2		47.6		56.5		73.4		19.1		49.7							
54	Chlorine		ug/dscm		10487.2		9577.0		7202.5		9088.9		217.7		217.7		217.7		217.7							
55	Chromium		ug/dscm	nd	5.76	nd	3.45	nd	3.06		2.0	nd	10.26	nd	10.28	nd	10.39		5.2		2.30E-02		2.55E-02		2.68E-02	
56	Antimony		ug/dscm	nd	1.72	nd	1.72	nd	1.72		0.9	nd	13.69	nd	13.71	nd	13.87		6.9		9.93E-03		1.57E-02		1.09E-02	
57	Arsenic		ug/dscm		35.11		32.88		32.56		33.5		23.94		25.85		23.94		24.6		4.88E-02		4.07E-02		3.65E-02	
58	Barium		ug/dscm		5.76		3.26		2.68		3.9	nd	6.85	nd	6.86	nd	6.93		3.4	nd	6.73E-03		8.43E-03	nd	1.12E-02	
59	Beryllium		ug/dscm	nd	0.38	nd	0.38	nd	0.38		0.2	nd	3.43	nd	3.43	nd	3.46		1.7	nd	5.67E-04	nd	6.11E-04	nd	6.13E-04	
60	Cadmium		ug/dscm	nd	0.38	nd	0.38	nd	0.38		0.2	nd	3.43	nd	3.43	nd	3.46		1.7	nd	5.78E-04	nd	6.51E-04	nd	1.09E-03	

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1	**Feedstream 1**																											
2																												
3																												
4	**712C10**	Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1
5																												
6	Feedstream Description	R240 Fumes		R238 Fumes		R238 Fumes		R238 Fumes		R238 Fumes		Plant Vent		Plant Vent		Plant Vent		Plant Vent		Natural Gas		Natural Gas		Natural Gas		Natural Gas		Total
7	Feed Rate	3.4										23.9		23.4		23.9		23.7										158.0
8	Feed Rate			196.7		194.7		195.7		195.7										18.1		17.1		17		17.4		
9	Density																											
10	Heating Value																											
11	Ash																											6.9
12	Chlorine																											3.8
13																												
14	Stack Gas Flowrate																											
15	Oxygen																											
16																												
17	Thermal Feedrate																											
18	Estimated Firing Rate																											
19																												
20	*Feedrate MTEC Calculation*																											
21	Ash																											13.7
22	Chlorine																											7459.7
23																												
24	**712C11**	Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1
25																												
26	Feedstream Description	R240 Fumes		R238 Fumes		R238 Fumes		R238 Fumes		R238 Fumes		Plant Vent		Plant Vent		Plant Vent		Plant Vent		Natural Gas		Natural Gas		Natural Gas		Natural Gas		
27	Feed Rate	3.9										24.3		24.4		24.4		24.4										159.5
28	Feed Rate			186.1		187.8		191.3												18.8		19.6		19.2		19.2		
29	Density																											
30	Heating Value																											
31	Ash																											52.6
32	Chlorine																											5.4
33	Chromium	1.6E-02		1.06		1.31		1.01		1.1E+00		0.132		0.104		0.103		1.1E-01										
34	Antimony	7.6E-03		0.573		0.406		0.804		5.9E-01		0.0568		0.0611		0.0368		5.2E-02										
35	Arsenic	2.6E-02		0.327		0.152	nd	0.198		1.4E-01		0.0511		0.0646		0.0482		5.5E-02										
36	Barium	3.6E-03		0.364		0.407		0.453		4.1E-01	nd	0.0415	nd	0.0297	nd	0.0367		1.8E-02										
37	Beryllium	1.9E-04	nd	0.019	nd	0.0202	nd	0.0201		9.9E-03	nd	0.00246	nd	0.00285	nd	0.00231		1.3E-03										
38	Cadmium	2.4E-04	nd	0.0597	nd	0.0252	nd	0.123		3.5E-02	nd	0.00246	nd	0.00285	nd	0.00231		1.3E-03										
39	Lead	6.5E-03		0.656	nd	0.129		0.181		3.0E-01	nd	0.00677	nd	0.0165	nd	0.00936		5.4E-03										
40	Mercury	3.7E-03	nd	0.405	nd	0.383	nd	0.395		2.0E-01	nd	0.0499	nd	0.0316	nd	0.0327		1.9E-02										
41	Nickel	4.2E-03		0.61		1.25		1.18		1.0E+00	nd	0.054	nd	0.119	nd	0.0495		3.7E-02										
42	Selenium	9.3E-02		2.66		0.943		0.715		1.4E+00		0.195		0.206		0.162		1.9E-01										
43	Silver	3.8E-04	nd	0.0486	nd	0.0631	nd	0.0526		2.7E-02	nd	0.00495	nd	0.00569	nd	0.00462		2.5E-03										
44	Thallium	5.6E-04	nd	0.0571	nd	0.0607	nd	0.0605		3.0E-02	nd	0.00741	nd	0.00854	nd	0.00693		3.8E-03										
45																												
46	Stack Gas Flowrate																											
47	Oxygen																											
48																												
49	Thermal Feedrate																											
50	Estimated Firing Rate																											
51																												
52	*Feedrate MTEC Calculation*																											
53	Ash																											104.1
54	Chlorine																											10704.8
55	Chromium	2.5E-02		1.69E+00		2.09E+00		1.61E+00		1.80E+00		2.11E-01		1.66E-01		1.64E-01		1.80E-01										
56	Antimony	1.2E-02		9.14E-01		6.48E-01		1.28E+00		9.49E-01		9.07E-02		9.75E-02		5.87E-02		8.23E-02										
57	Arsenic	4.2E-02		5.22E-01		2.43E-01	nd	3.16E-01		2.21E-01		8.16E-02		1.03E-01		7.69E-02		8.72E-02										
58	Barium	5.8E-03		5.81E-01		6.50E-01		7.23E-01		6.51E-01	nd	6.62E-02	nd	4.74E-02	nd	5.86E-02		2.87E-02										
59	Beryllium	3.0E-04	nd	3.03E-02	nd	3.22E-02	nd	3.21E-02		1.58E-02	nd	3.93E-03	nd	4.55E-03	nd	3.69E-03		2.03E-03										
60	Cadmium	3.9E-04	nd	9.53E-02	nd	4.02E-02	nd	1.96E-01		5.53E-02	nd	3.93E-03	nd	4.55E-03	nd	3.69E-03		2.03E-03										

	B	BC	BD	B	BF	BC	BH
1	**Feedstream 1**						
2							
3							
4	**712C10**		R2		R3		Cond Avg
5							
6	Feedstream Description		Total		Total		Total
7	Feed Rate		158.4		158.9		158.4
8	Feed Rate						
9	Density						
10	Heating Value						
11	Ash		34.6		28.6		23.4
12	Chlorine		3.0		3.8		3.5
13							
14	Stack Gas Flowrate						
15	Oxygen						
16							
17	Thermal Feedrate						
18	Estimated Firing Rate						
19							
20	*Feedrate MTEC Calculation*						
21	Ash		68.5		56.5		46.2
22	Chlorine		6015.3		7440.0		6971.7
23							
24	**712C11**		R2		R3		Cond Avg
25							
26	Feedstream Description						
27	Feed Rate		159.5		159.7		159.6
28	Feed Rate						
29	Density						
30	Heating Value						
31	Ash		62.4		32.5		49.2
32	Chlorine		5.0		3.8		4.7
33	Chromium						
34	Antimony						
35	Arsenic						
36	Barium						
37	Beryllium						
38	Cadmium						
39	Lead						
40	Mercury						
41	Nickel						
42	Selenium						
43	Silver						
44	Thallium						
45							
46	Stack Gas Flowrate						
47	Oxygen						
48							
49	Thermal Feedrate						
50	Estimated Firing Rate						
51							
52	*Feedrate MTEC Calculation*						
53	Ash		123.4		64.3		97.3
54	Chlorine		9794.6		7420.2		9306.5
55	Chromium						
56	Antimony						
57	Arsenic						
58	Barium						
59	Beryllium						
60	Cadmium						

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
61	Lead		ug/dscm		5.38		5.19		5.00		2.6		12.46		6.86		6.93		8.8		1.77E-02		1.01E-02	nd	6.35E-03	
62	Mercury		ug/dscm	nd	7.49		7.10	nd	6.91		4.8	nd	0.71		0.69	nd	0.67		0.5	nd	1.27E-02	nd	1.09E-02	nd	1.18E-02	
63	Nickel		ug/dscm		2.68		1.72		1.34		1.9	nd	10.26		12.37	nd	10.39		7.6	nd	1.25E-02	nd	1.39E-02	nd	1.39E-02	
64	Selenium		ug/dscm		85.86		82.03		80.12		82.7		105.65		58.89		104.22		89.6		1.66E-01		1.61E-01		1.20E-01	
65	Silver		ug/dscm	nd	0.77	nd	0.77	nd	0.77		0.4	nd	6.85	nd	6.86	nd	6.93		3.4	nd	1.14E-03	nd	1.23E-03	nd	1.23E-03	
66	Thallium		ug/dscm	nd	1.34	nd	1.34	nd	1.34		0.7	nd	17.08	nd	17.08	nd	17.40		8.6	nd	1.71E-03	nd	1.84E-03	nd	1.84E-03	
67																										
68	SVM		ug/dscm		5.57		5.38		5.19		5.4		14.18		8.58		8.66		10.5		1.80E-02		1.05E-02		3.72E-03	
69	LVM		ug/dscm		38.18		34.79		34.28		35.8		30.79		32.71		30.87		31.5		7.21E-02		6.65E-02		6.37E-02	

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
61	Lead	1.0E-02		1.05E+00	nd	2.06E-01		2.89E-01		4.80E-01	nd	1.08E-02	nd	2.63E-02	nd	1.49E-02		8.68E-03										
62	Mercury	5.9E-03	nd	6.46E-01	nd	6.11E-01	nd	6.30E-01		3.15E-01	nd	7.96E-02	nd	5.04E-02	nd	5.22E-02		3.04E-02										4.5
63	Nickel	6.7E-03		9.74E-01		1.99E+00		1.88E+00		1.62E+00	nd	8.62E-02	nd	1.90E-01	nd	7.90E-02		5.92E-02										
64	Selenium	1.5E-01		4.25E+00		1.50E+00		1.14E+00		2.30E+00		3.11E-01		3.29E-01		2.59E-01		3.00E-01										
65	Silver	6.0E-04	nd	7.76E-02	nd	1.01E-01	nd	8.39E-02		4.37E-02	nd	7.90E-03	nd	9.08E-03	nd	7.37E-03		4.06E-03										
66	Thallium	9.0E-04	nd	9.11E-02	nd	9.69E-02	nd	9.66E-02		4.74E-02	nd	1.18E-02	nd	1.36E-02	nd	1.11E-02		6.09E-03										
67																												
68	SVM	1.1E-02		1.09E+00		2.26E-01		3.87E-01		5.69E-01		7.37E-03		1.54E-02		9.31E-03		1.07E-02										20.9
69	LVM	6.7E-02		2.23E+00		2.35E+00		1.79E+00		2.12E+00		2.94E-01		2.71E-01		2.43E-01		2.70E-01										71.6

	B	BC	BD	B	BF	BC	BH
61	Lead						
62	Mercury		8.1		4.1		5.6
63	Nickel						
64	Selenium						
65	Silver						
66	Thallium						
67							
68	SVM		14.2		14.2		16.4
69	LVM		70.2		67.2		69.7

	B	C	D	E	F	G	H	I	J	K	L
1	**Feedstream 2**										
2											
3											
4	**712C1**			R1		R2		R3		Cond Avg	
5											
6	Feedstream			Waste fumes							
7	Feedrate	lb/hr									
8	Heating value	Btu/lb									
9	Ash	lb/hr		3.71				5.13			
10											
11	Arsenic	lb/hr	1	0.000026			1	0.000024			
12	Beryllium	lb/hr	1	0.000003			1	0.000002			
13	Cadmium	lb/hr		0.000024			1	0.000010			
14	Chromium	lb/hr		0.000123		0.0000697		0.000067			
15	Chromium (Hex)	lb/hr		0.000069		0.0000697		0.000051			
16	Nickel	lb/hr		0.000605				0.000092			
17											
18	Stack gas flowrate			21542		20654		21384			
19	Oxygen			5.2		5.1		5.1			
20											
21	**Feedrate MTEC Calculations**										
22	Ash	mg/dscm		40.80				56.48		49	
23											
24	Arsenic	ug/dscm	1	0.3		0.0	1	0.3		0.3	
25	Beryllium	ug/dscm	1	0.0		0.0	1	0.0		0.0	
26	Cadmium	ug/dscm		0.3		0.0	1	0.1		0.2	
27	Chromium	ug/dscm		1.4		0.8		0.7		1.0	
28	Chromium (Hex)	ug/dscm		0.8		0.8		0.6		0.7	
29	Nickel	ug/dscm		6.7		0.0		1.0		3.8	
30											
31	SVM (Cd only)	ug/dscm		0.3				0.1		0.2 (Cd only)	
32	LVM	ug/dscm		1.5		0.8		0.9		1.1	
33											
34											
35	**712C2**			R1		R2		R3		Cond Avg	
36											
37	Feedstream			Waste fumes							
38	Feedrate	lb/hr									
39	Heating value	Btu/lb									
40	Ash										
41	Antimony	lb/hr	1	0.0000264							
42	Arsenic	lb/hr	1	0.0000264							
43	Barium	lb/hr		0.0000481							
44	Beryllium	lb/hr	1	0.00000527							
45	Cadmium	lb/hr	1	0.0000264							
46	Chromium	lb/hr		0.000142							
47	Chromium (Hex)	lb/hr	1	0.0000152							
48	Lead	lb/hr		0.0000361							
49	Mercury	lb/hr	1	0.0000403							
50	Nickel	lb/hr		0.000146							
51	Selenium	lb/hr	1	0.0000264							
52	Silver	lb/hr	1	0.0000264							
53	Thallium	lb/hr	1	0.0000264							
54											
55											
56	Stack gas flowrate			16819							
57	Oxygen			5.1							
58											
59	**Feedrate MTEC Calculations**										
60											

	B	C	D	E	F	G	H	I	J	K	L
61	Antimony	ug/dscm	1	0.37							
62	Arsenic	ug/dscm	1	0.37							
63	Barium	ug/dscm		0.67							
64	Beryllium	ug/dscm	1	0.07							
65	Cadmium	ug/dscm	1	0.37							
66	Chromium	ug/dscm		1.99							
67	Chromium (Hex)	ug/dscm	1	0.21							
68	Lead	ug/dscm		0.51							
69	Mercury	ug/dscm	1	0.56							
70	Nickel	ug/dscm		2.04							
71	Selenium	ug/dscm	1	0.37							
72	Silver	ug/dscm	1	0.37							
73	Thallium	ug/dscm	1	0.37							
74											
75	SVM			0.69							
76	LVM			2.21							

	B	C	D	E	F	G
1	**Process Information**					
2						
3	**712C10**			Run 1	Run 2	Run 3
4						
5	Chamber Temp	oC		1030	1030	1030
6	Chamber Press.	mbar		8.75	9.24	8.9
7	Atomization Gas Press to Waste Water	bar		3.5	3.5	3.51
8	Atomization Gas Press to Front	bar		4.4	4.5	4.5
9						
10						
11	**712C11**			Run 1	Run 2	Run 3
12						
13	Chamber Temp	oC		1150	1148	1150
14	Chamber Press.	mbar		7.69	7.4	7.55
15	Atomization Gas Press to Waste Water	bar		3.53	3.5	3.51
16	Atomization Gas Press to Front	bar		4.54	4.32	4.44

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**PCDD/PCDF**														
2															
3	Facility Name and ID:		Nepera Incorporated												
4	Condition ID:		712C10												
5	Condition/Test Date:		Trial burn, max feedrate, low temp												
6															
7			I-TEF			Run 1				Run 2				Run 3	
8			Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
9						1/2 ND	1/2 ND			1/2 ND	1/2 ND			1/2 ND	1/2 ND
10	Detected in sample volume (ng)														
11		2,3,7,8-TCDD	1		0.019	0.019	0.02		0.123	0.123	0.12		0.006	0.006	0.006
12		Total TCDD	0		0.392	0.392	0.00		0.799	0.799	0.00		0.049	0.049	0.000
13		1,2,3,7,8-PCDD	0.5		0.084	0.084	0.04		0.374	0.374	0.19		0.032	0.032	0.016
14		Total PCDD	0		1.091	1.091	0.00		1.748	1.748	0.00		0.201	0.201	0.000
15		1,2,3,4,7,8-HxCDD	0.1		0.160	0.160	0.02		0.355	0.355	0.04		0.045	0.045	0.004
16		1,2,3,6,7,8-HxCDD	0.1		0.293	0.293	0.03		0.489	0.489	0.05		0.055	0.055	0.006
17		1,2,3,7,8,9-HxCDD	0.1		0.331	0.331	0.03		0.570	0.570	0.06		0.065	0.065	0.006
18		Total HxCDD	0		2.257	2.257	0.00		3.265	3.265	0.00		0.394	0.394	0.000
19		1,2,3,4,6,7,8-HpCDD	0.01		3.123	3.123	0.03		5.960	5.960	0.06		0.375	0.375	0.004
20		Total HpCDD	0		2.298	2.298	0		4.528	4.528	0.00		0.301	0.301	0.000
21		OCDD	0.001		7.210	7.210	0.01		20.205	20.205	0.02		0.698	0.698	0.001
22		2,3,7,8-TCDF	0.1		0.097	0.097	0.01		0.428	0.428	0.04		0.029	0.029	0.003
23		Total TCDF	0		2.470	2.470	0		6.964	6.964	0.00		0.503	0.503	0.000
24		1,2,3,7,8-PCDF	0.05		0.255	0.255	0		0.886	0.886	0.04		0.062	0.062	0.003
25		2,3,4,7,8-PCDF	0.5		0.421	0.421	0		0.818	0.818	0.41		0.112	0.112	0.056
26		Total PCDF	0		2.671	2.671	0		6.607	6.607	0.00		0.688	0.688	0.000
27		1,2,3,4,7,8-HxCDF	0.1		1.197	1.197	0		2.225	2.225	0.22		0.370	0.370	0.037
28		1,2,3,6,7,8-HxCDF	0.1		0.515	0.515	0		1.036	1.036	0.10		0.143	0.143	0.014
29		2,3,4,6,7,8-HxCDF	0.1		0.098	0.098	0		0.094	0.094	0.01		0.017	0.017	0.002
30		1,2,3,7,8,9-HxCDF	0.1		0.690	0.690	0		0.929	0.929	0.09		0.018	0.018	0.002
31		Total HxCDF	0		2.307	2.307	0		4.348	4.348	0.00		0.651	0.651	0.000
32		1,2,3,4,6,7,8-HpCDF	0.01		1.810	1.810	0		3.153	3.153	0.03		0.462	0.651	0.007
33		1,2,3,4,7,8,9-HpCDF	0.01		0.609	0.609	0		0.538	0.538	0.01		0.082	0.462	0.005
34		Total HpCDF	0		0.992	0.992	0		1.244	1.244	0.00		0.159	0.082	0.000
35		OCDF	0.001		2.540	2.540	0		2.685	2.685	0.00		0.240	0.159	0.000
36															
37		Gas sample volume (dscf)				122.07	122.07			110.84	110.84			110.10	110.10
38		O2 (%)				5.20	5.20			5.0	5.0			5.20	5.20
39															
40		PCDD/PCDF (ng in sample)				24.2	0.69			52.4	1.50			3.7	0.17
41		PCDD/PCDF (ng/dscm @ 7% O2)				6.21	0.1762			14.61	0.4171			1.06	0.0487
42															
43		TEQ Cond Avg	0.214												
44		Total Cond Avg	7.3												