	B	C
1	**Source Description**	
2		
3	Phase II ID No.	1017
4	EPA ID No.	TXD980808778
5	Facility Name	Sunoco Inc. (R&M) Pasadena Plant
6	Facility Location	
7	City	Pasadena
8	State	TX
9	Unit ID Name/No.	Boiler F- 8
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	100
16	Soot Blowing	Yes, but uncharacterized
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	Waste liquid fuels and combined PA residues
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	6.5
26	Height (ft)	75.0
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	305
29		
30	Permitting Status	Tier I for metals and chlorine
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Cond Description**	
2		
3	**1017C1**	
4		
5	Report Name/Date	Source Emission Survey - Aristech Chemical Corp. - F-8 Boiler Stack (EPN 84); File No. 95-165B, September 1995
6	Report Prepare	METCO Environmental
7	Testing Firm	METCO Environmental
8	Testing Dates	September 28, 1995
9	Cond Dates	Sep-95
10	Condition Descr	CoC; max feed waste liq 2EH
11	Content	PM, HCl/Cl2, & CO emissions; metals, ash, & chlorine in waste feedstreams
12		
13	**1017C2**	
14		
15	Report Name/Date	Source Emission Survey - Aristech Chemical Corp. - F-8 Boiler Stack (EPN 84); File No. 95-165B, September 1995
16	Report Prepare	METCO Environmental
17	Testing Firm	METCO Environmental
18	Testing Dates	September 27, 1995
19	Cond Dates	Sep-95
20	Condition Descr	CoC; max feed waste liq 2EH and combined PA residue
21	Content	PM, HCl/Cl2, & CO emissions; metals, ash, & chlorine in waste feedstreams
22		
23	**1017C3**	
24		
25	Report Name/Date	Source Emission Survey - Aristech Chemical Corp. - F-8 Boiler Stack (EPN 84); File No. 95-165B, September 1995
26	Report Prepare	METCO Environmental
27	Testing Firm	METCO Environmental
28	Testing Dates	September 29, 1995
29	Cond Dates	Sep-95
30	Condition Descr	CoC; max feed for combined PA residue
31	Content	PM, HCl/Cl2, & CO emissions; metals, ash, & chlorine in waste feedstreams
32		
33	**1017C4**	
34		
35	Report Name/Date	Source Emission Survey - Aristech Chemical Corp. - F-8 Boiler Stack (EPN 84); 2000
36	Report Prepare	METCO Environmental
37	Testing Firm	METCO Environmental
38	Testing Dates	3/1-3/2000
39	Cond Dates	Mar-00
40	Condition Descr	Risk burn, normal operations
41	Content	HCl/Cl2, CO, D/Fs, VOC/SVOC, total organics, aldehydes/ketones, & particle size emissions; metals, ash, & chlorine in waste feedstreams
42		
43	**1017C5**	
44		
45	Report Name/Date	Source Emission Survey - Aristech Chemical Corp. - F-8 Boiler Stack (EPN 84); 2000
46	Report Prepare	METCO Environmental
47	Testing Firm	METCO Environmental
48	Testing Dates	February 28, 2000
49	Cond Dates	Feb-00
50	Condition Descr	CoC
51	Content	PM
52		
53	**1017C6**	
54		
55	Report Name/Date	Source Emission Survey - Aristech Chemical Corp. - F-8 Boiler Stack (EPN 84); 2000
56	Report Prepare	METCO Environmental
57	Testing Firm	METCO Environmental
58	Testing Dates	February 29, 2000
59	Cond Dates	Feb-00
60	Condition Descr	CoC
61	Content	PM

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions**											
2												
3		Comments	Units	7% O2								
4												
5										Sootblow		
6	**1017C1**					R1		R2		R3		Cond Avg
7												
8	PM	E1	gr/dscf	y		0.0114		0.0104		0.1344		0.0172
9	PM (total)	E1	gr/dscf	y		0.0118		0.0108		0.1347		0.0175
10	HCl	E1	ppmv	y		0.05		0.06		0.13		0.08
11	Cl2	E1	ppmv	y		0.02		0.02		0.02		0.02
12	Total Chlorine	E1	ppmv	y		0.08		0.09		0.17		0.11
13	CO (RA)	E1	ppmv	y		0.1		0.1		0.1		0.100
14												
15	Sampling Train	PM, HCl/Cl2	E1									
16	Stack Gas Flowrate		dscfm			14414		14739		14489		14547.3
17	O2		%			3.2		3.2		3.4		3.3
18	Moisture		%			21.67		21.67		22.96		22.1
19	Temperature		°F			313		314		312		313.0
20												
21										Sootblow		
22	**1017C2**					R1		R2		R3		Cond Avg
23												
24	PM	E1	gr/dscf	y		0.0195		0.0202		0.1149		0.052
25	PM (total)	E1	gr/dscf	y		0.0202		0.0208		0.1153		0.052
26	HCl	E1	ppmv	y		0.07		0.09		0.07		0.07
27	Cl2	E1	ppmv	y		0.03		0.04		0.01		0.03
28	Total Chlorine	E1	ppmv	y		0.13		0.17		0.08		0.13
29	CO (RA)	E1	ppmv	y		0.1		1.4		0.9		0.8
30												
31	Sampling Train	PM, HCl/Cl2	E1									
32	Stack Gas Flowrate		dscfm			15473		15776		15221		15490.0
33	O2		%			4		4		3.4		3.8
34	Moisture		%			19.04		19.17		20.56		19.6
35	Temperature		°F			333		337		335		335.0
36												
37										Sootblow		
38	**1017C3**					R1		R2		R3		Cond Avg
39												
40	PM	E1	gr/dscf	y		0.0293		0.0294		0.1746		0.078
41	PM (total)	E1	gr/dscf	y		0.0296		0.0296		0.1749		0.078
42	HCl	E1	ppmv	y		0.02		0.03		0.04		0.03
43	Cl2	E1	ppmv	y		0.02		0.02		0.01		0.02
44	Total Chlorine	E1	ppmv	y		0.07		0.08		0.07		0.07
45	CO (RA)	E1	ppmv	y		5.4		3.6		4.5		4.5
46												
47	Sampling Train	PM, HCl/Cl2	E1									
48	Stack Gas Flowrate		dscfm			15221		15158		14879		15086
49	O2		%			3.4		3.4		3.6		3.5
50	Moisture		%			18.02		18.07		19.82		18.6
51	Temperature		°F			306		304		304		304.7
52												
53												
54	**1017C4**					R1		R2		R3		Cond Avg
55												
56	CO (RA)	E1	ppmv	y		0.007		0.007		0.007		0.007
57	HCl	E1	ppmv	y		0.5649		0.5215		0.6307		0.5724
58	Cl2	E1	ppmv	y		0.0608		0.0659		0.0710		0.0659
59	Total Chlorine	E1	ppmv	y		0.6866		0.6533		0.7726		0.7042
60												
61												
62	Sampling Train	HCl/Cl2	E1									
63	Stack Gas Flowrate		dscfm			11197		9986		10402		10528
64	O2		%			4		4		4.6		4.2
65	Moisture		%			20.37		19.58		18.37		19.4
66	Temperature		°F			299		299		298		299
67												
68	Sampling Train	PSD	E2									
69	Stack Gas Flowrate		dscfm			10159		9856		9974		9996
70	O2		%			4		3.8		4.6		4.1
71	Moisture		%			21.1		22.0		24.1		22.4

	B	C	D	E	F	G	H	I	J	K	L	M
72	Temperature		°F			300		298		299		299
73												
74												
75												
76												
77	**1017C5**					R1		R2		R3		Cond Avg
78												
79	PM	E1	gr/dscf	y		0.0172		0.0117		0.0267		0.0185
80												
81	Sampling Train	PM	E1									
82	Stack Gas Flowrate		dscfm			16824		13638		14369		14944
83	O2		%			6		4.8		4.6		5.1
84	Moisture		%			15.6		16.9		18.4		17.0
85	Temperature		°F			364		346		345		351.7
86												
87												
88												
89	**1017C6**					R1		R2		R3		Cond Avg
90												
91	PM	E1	gr/dscf	y		0.011		0.0136		0.0237		0.0161
92												
93	Sampling Train	PM	E1									
94	Stack Gas Flowrate		dscfm			16050		14202		15205		15152
95	O2		%			4.8		4.8		4.7		4.8
96	Moisture		%			20.3		19.4		20.7		20.1
97	Temperature		°F			341		343		348		344.0

	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	**Feedstreams**																									
2																										
3	**1017C1**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg							
4																										
5	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2							
6	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total							
7	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total							
8	Feedstream Description				Waste Liquid Fuels		Waste Liquid Fuels		Waste Liquid Fuels		Waste Liquid Fu		Total		Total		Total		Total							
9	Feed Rate		lb/hr		2518		2472		2418																	
10	Heating Value		Btu/lb		17000		18000		15700																	
11	Ash		g/hr	nd	571	nd	561	nd	549																	
12	Chlorine		g/hr		121		163		140																	
13	Antimony		g/hr	nd	2.28	nd	2.24	nd	2.19																	
14	Arsenic		g/hr		0.114		2.356	nd	0.088																	
15	Barium		g/hr	nd	0.057		0.079	nd	0.055																	
16	Beryllium		g/hr	nd	0.011	nd	0.011	nd	0.011																	
17	Cadmium		g/hr	nd	0.011		0.022	nd	0.011																	
18	Chromium		g/hr		0.126		0.146		0.132																	
19	Lead		g/hr	nd	1.713	nd	1.683	nd	1.646																	
20	Mercury		g/hr		0.023		5.160	nd	0.022																	
21	Silver		g/hr	nd	0.263	nd	0.247	nd	0.252																	
22	Thallium		g/hr	nd	10.17	nd	9.87	nd	9.76																	
23																										
24	Stack Gas Flowrate		dscfm		14414		14739		14489		14547															
25	Oxygen		%		3.2		3.2		3.4		3.3															
26																										
27	Thermal Feedrate		MMBtu/hr		42.8		44.5		38.0		41.8		42.806		44.5		38.0		41.8							
28	Estimated Firing Rate		MMBtu/hr								81.9															
29																										
30	*Feedrate MTEC Calculations*																									
31	Ash		mg/dscm	100	18.4	100	17.6	100	17.7	100	17.9	100	18.4	100	17.6	100	17.7	100	18							
32	Chlorine		ug/dscm		3891		5111		4534		4512.2		3890.9		5111.4		4534.3		4512							
33	Antimony		ug/dscm	100	73.4	100	70.5	100	70.9	100	71.6	100	73.4	100	70.5	100	70.9	100	72							
34	Arsenic		ug/dscm		3.7		74.0	100	2.8	3.5	26.9		3.7		74.0	100	2.8	3.53	27							
35	Barium		ug/dscm	100	1.8		2.5	100	1.8	59	2.0	100	1.8		2.5	100	1.8	59.3	2							
36	Beryllium		ug/dscm	100	0.4	100	0.3	100	0.4	100	0.4	100	0.4	100	0.3	100	0.4	100	0							
37	Cadmium		ug/dscm	100	0.4		0.7	100	0.4	51	0.5	100	0.4		0.7	100	0.4	50.6	0							
38	Chromium		ug/dscm		4.0		4.6		4.3		4.3		4.0		4.6		4.3		4							
39	Lead		ug/dscm	100	55.0	100	52.9	100	53.2	100	53.7	100	55.0	100	52.9	100	53.2	100	54							
40	Mercury		ug/dscm		0.7		162.2	100	0.7	0.4	54.5		0.7		162.2	100	0.7	0.43	55							
41	Silver		ug/dscm	100	8.5	100	7.8	100	8.1	100	8.1	100	8.5	100	7.8	100	8.1	100	8							
42	Thallium		ug/dscm	100	326.7	100	310.2	100	315.7	100	317.5	100	326.7	100	310.2	100	315.7	100	318							
43																										
44	SVM		ug/dscm	100	55.4	49	53.6	100	53.6	83	54.2	100	55	49.4	54	100	54	83.3	54							
45	LVM		ug/dscm	4.38	8.1	0.4	79.0	42.9	7.5	0.8	31.5	4.4	8	0.44	79	42.9	7	0.77	32							
46																										
47	**1017C2**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg							
48																										
49	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2							
50	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total							
51	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total							
52	Feedstream Description				Waste Liquid and C		Waste Liquid and C		Waste Liquid and C		Waste Liquid an		Total		Total		Total		Total							
53	Feedrate Waste Liq		lb/hr		1224		1255		1257																	
54	Feedrate Residues		lb/hr		2047		1924		2011																	
55	Heating Value Liq		Btu/lb		17800		15600		15900																	
56	Heating Value Res		Btu/lb		13400		10300		13600																	
57	Ash		g/hr	nd	2135	nd	2729	nd	2931																	
58	Chlorine		g/hr	nd	192	nd	144	nd	176																	
59	Antimony		g/hr	nd	3.02	nd	2.89	nd	3.06																	
60	Arsenic		g/hr	nd	0.20	nd	0.116	nd	0.23																	

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	**Feedstreams**									
2										
3	**1017C1**									
4										
5	Feedstream Number									
6	Feed Class									
7	Feed Class 2									
8	Feedstream Descriptior									
9	Feed Rate									
10	Heating Value									
11	Ash									
12	Chlorine									
13	Antimony									
14	Arsenic									
15	Barium									
16	Beryllium									
17	Cadmium									
18	Chromium									
19	Lead									
20	Mercury									
21	Silver									
22	Thallium									
23										
24	Stack Gas Flowrate									
25	Oxygen									
26										
27	Thermal Feedrate									
28	Estimated Firing Rate									
29										
30	*Feedrate MTEC Calcula*									
31	Ash									
32	Chlorine									
33	Antimony									
34	Arsenic									
35	Barium									
36	Beryllium									
37	Cadmium									
38	Chromium									
39	Lead									
40	Mercury									
41	Silver									
42	Thallium									
43										
44	SVM									
45	LVM									
46										
47	**1017C2**									
48										
49	Feedstream Number									
50	Feed Class									
51	Feed Class 2									
52	Feedstream Descriptior									
53	Feedrate Waste Liq									
54	Feedrate Residues									
55	Heating Value Liq									
56	Heating Value Res									
57	Ash									
58	Chlorine									
59	Antimony									
60	Arsenic									

	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	Barium		g/hr	nd	0.12	nd	0.194	nd	0.09																	
62	Beryllium		g/hr	nd	0.02	nd	0.015	nd	0.02																	
63	Cadmium		g/hr	nd	0.02	nd	0.015	nd	0.02																	
64	Chromium		g/hr		0.34		0.258		0.26																	
65	Lead		g/hr	nd	2.28	nd	2.164	nd	2.32																	
66	Mercury		g/hr	nd	0.03	nd	0.032	nd	0.07																	
67	Silver		g/hr	nd	0.34	nd	0.332	nd	0.34																	
68	Thallium		g/hr	nd	13.17	nd	12.84	nd	13.18																	
69																										
70	Stack Gas Flowrate		dscfm		15473		15776		15221		15490															
71	Oxygen		%		4		4		3.4		3.80															
72																										
73	Thermal Feedrate		MMBtu/hr		49.2		39.4		47.3		45.3		49.2		39.4		47.3		45.3							
74	Estimated Firing Rate		MMBtu/hr		83.5		85.1		85.0		84.6															
75																										
76	*Feedrate MTEC Calculations*																									
77	Ash		mg/dscm	100	66.9	100	83.9	100	90.2	100	80.3	100	33.5	100	42.0	100	45.1	100	80							
78	Chlorine		ug/dscm	100	6026	100	4434	100	5407	100	5289.0	100	6026	100	4434	100	5407	100	5289							
79	Antimony		ug/dscm	100	95	100	89	100	94	100	92.5	100	95	100	89	100	94	100	93							
80	Arsenic		ug/dscm	100	6.33	100	3.57	100	7.02	100	5.6	100	6	100	4	100	7	100	6							
81	Barium		ug/dscm	100	3.79	100	5.96	100	2.86	100	4.2	100	4	100	6	100	3	100	4							
82	Beryllium		ug/dscm	100	0.47	100	0.46	100	0.46	100	0.5	100	0	100	0	100	0	100	0							
83	Cadmium		ug/dscm	100	0.47	100	0.46	100	0.46	100	0.5	100	0	100	0	100	0	100	0							
84	Chromium		ug/dscm		10.53		7.93		7.88		8.8		5.27		3.97		3.94		9							
85	Lead		ug/dscm	100	71.5	100	66.5	100	71.3	100	69.8	100	71	100	67	100	71	100	70							
86	Mercury		ug/dscm	100	0.78	100	0.98	100	2.03	100	1.3	100	0.392	100	0.492	100	1.016	100	1							
87	Silver		ug/dscm	100	10.72	100	10.21	100	10.31	100	10.4	100	11	100	10	100	10	100	10							
88	Thallium		ug/dscm	100	413	100	395	100	405	100	404.3	100	413	100	395	100	405	100	404							
89																										
90	SVM		ug/dscm	100	72.0	100	67.0	100	71.7	100	70.2	100	72	100	67	100	72	100	70							
91	LVM		ug/dscm	28.3	24.0	26	15.7	32	23.1	29	20.9	28	24	25.7	16	32	23	29.2	21							
92																										
93																										
94	**1017C3**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg							
95																										
96	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2							
97	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total							
98	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total							
99	Feedstream Description				Waste Liquid and C		Waste Liquid and C		Waste Liquid and C		Waste Liquid an		Total		Total		Total		Total							
100	Feed Rate		lb/hr		2041		2071		1876																	
101	Heating Value		Btu/lb		13400		10400		14400																	
102	Ash		g/hr		2315		2819		2809																	
103	Chlorine		g/hr	nd	93	nd	94	nd	85																	
104	Antimony		g/hr	nd	1.85	nd	1.88	nd	1.70																	
105	Arsenic		g/hr		0.157		0.16	nd	0.068																	
106	Barium		g/hr	nd	0.046	nd	0.047	nd	0.043																	
107	Beryllium		g/hr	nd	0.009	nd	0.009	nd	0.009																	
108	Cadmium		g/hr		0.009		0.009	nd	0.009																	
109	Chromium		g/hr		0.056		0.028		0.043																	
110	Lead		g/hr	nd	1.389	nd	1.410	nd	1.277																	
111	Mercury		g/hr		0.083	nd	0.009	nd	0.009																	
112	Silver		g/hr	nd	0.204	nd	0.216	nd	0.196																	
113	Thallium		g/hr	nd	8.15	nd	8.36	nd	7.49																	
114																										
115	Stack Gas Flowrate		dscfm		15221		15158		14879		15086															
116	Oxygen		%		3.4		3.4		3.6		3.47															
117																										
118	Thermal Feedrate		MMBtu/hr		27.3		21.5		27.0		25.3		27.3		21.5		27.0		25.3							
119	Estimated Firing Rate		MMBtu/hr								84.0															
120																										

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ
61	Barium									
62	Beryllium									
63	Cadmium									
64	Chromium									
65	Lead									
66	Mercury									
67	Silver									
68	Thallium									
69										
70	Stack Gas Flowrate									
71	Oxygen									
72										
73	Thermal Feedrate									
74	Estimated Firing Rate									
75										
76	*Feedrate MTEC Calcul*									
77	Ash									
78	Chlorine									
79	Antimony									
80	Arsenic									
81	Barium									
82	Beryllium									
83	Cadmium									
84	Chromium									
85	Lead									
86	Mercury									
87	Silver									
88	Thallium									
89										
90	SVM									
91	LVM									
92										
93										
94	**1017C3**									
95										
96	Feedstream Number									
97	Feed Class									
98	Feed Class 2									
99	Feedstream Descriptior									
100	Feed Rate									
101	Heating Value									
102	Ash									
103	Chlorine									
104	Antimony									
105	Arsenic									
106	Barium									
107	Beryllium									
108	Cadmium									
109	Chromium									
110	Lead									
111	Mercury									
112	Silver									
113	Thallium									
114										
115	Stack Gas Flowrate									
116	Oxygen									
117										
118	Thermal Feedrate									
119	Estimated Firing Rate									
120										

	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
121	*Feedrate MTEC Calculations*																									
122	Ash		mg/dscm		71.3		87.1		89.5		82.6		35.6		43.6		44.7		83							
123	Chlorine		ug/dscm	100	2850	100	2904	100	2710	100	2821.6	100	2850	100	2904	100	2710	100	2822							
124	Antimony		ug/dscm	100	57.0	100	58.1	100	54.2	100	56.4	100	57	100	58	100	54	100	56							
125	Arsenic		ug/dscm		4.83		4.94	100	2.17	18	4.0		2.42		2.47	100	1.08	18.1	4							
126	Barium		ug/dscm	100	1.42	100	1.45	100	1.37	100	1.4	100	1	100	1	100	1	100	1							
127	Beryllium		ug/dscm	100	0.28	100	0.28	100	0.29	100	0.3	100	0	100	0	100	0	100	0							
128	Cadmium		ug/dscm		0.28		0.28	100	0.29	34	0.3		0.138		0.139	100	0.143	34	0							
129	Chromium		ug/dscm		1.72		0.87		1.37		1.3		0.862		0.433		0.685		1							
130	Lead		ug/dscm	100	42.8	100	43.6	100	40.7	100	42.3	100	43	100	44	100	41	100	42							
131	Mercury		ug/dscm		2.6	100	0.28	100	0.29	18	1.0		1.28	100	0.139	100	0.143	18.1	1							
132	Silver		ug/dscm	100	6.3	100	6.68	100	6.24	100	6.4	100	6	100	7	100	6	100	6							
133	Thallium		ug/dscm	100	251	100	258	100	239	100	249.3	100	251	100	258	100	239	100	249							
134																										
135	SVM		ug/dscm	99.4	43.0	99	43.9	99	41.0	99	42.6	99	43	99.4	44	99	41	99.3	43							
136	LVM		ug/dscm	4.05	6.8	4.6	6.1	7.5	3.8	5	5.6	4.1	7	4.57	6	7.5	4	5.03	6							
137																										
138	**1017C4**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3	
139																										
140	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2							
141	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW							
142	Feed Class 2																				HW		HW		HW	
143	Feedstream Description				PA Residue		PA Residue		PA Residue		PA Residue		2-EH Waste Liq		2-EH Waste Liq		2-EH Waste Liq		2-EH Waste Liq							
144	Feed Rate		lb/hr		694		693		694		694		870		869		869		869							
145	Heating Value		Btu/lb		11418		11321		11308		11349		16014		15866		15922		15934							
146	Ash		g/hr		0.6		0.6		0.6		0.6	nd	0.04	nd	0.04	nd	0.04		0							
147	Chlorine		g/hr	nd	0.1	nd	0.1	nd	0.1		0.1	nd	0.09	nd	0.09	nd	0.80		0							
148	Antimony		g/hr		0.28		0.24	nd	0.23		0		0.59		0.43	nd	0.31		0							
149	Arsenic		g/hr		0.66		0.47		0.60		1		1.66		1.77		1.38		2							
150	Barium		g/hr		0.02	nd	0.06		0.04		0		0.04		0.04		0.05		0							
151	Beryllium		g/hr		0.02		0.02	nd	0.01		0		0.04		0.06		0.03		0							
152	Cadmium		g/hr		0.04		0.01	nd	0.02		0		0.11		0.07		0.06		0							
153	Chromium		g/hr		0.18		0.63		0.57		0		0.22	nd	0.06		0.13		0							
154	Lead		g/hr		0.50		0.41		0.54		0		0.51		0.75		0.51		1							
155	Mercury		g/hr		0.00	nd	0.01	nd	0.01		0		0.03		0.04		0.03		0							
156	Silver		g/hr		0.08		0.15		0.10		0		0.26	nd	0.06		0.14		0							
157	Thallium		g/hr	nd	0.28	nd	1.89	nd	2.20		1	nd	2.76	nd	2.76	nd	2.76		3							
158																										
159	Stack Gas Flowrate		dscfm		11197		9986		10402		10528		11197		9986		10402		10528							
160	Oxygen		%		4		4		4.6		4.2		4		4		4.6		4.2							
161																										
162	Thermal Feedrate		MMBtu/hr		7.9		7.8		7.9		7.9		13.9		13.8		13.8		14		21.8		21.6		21.7	
163																										
164																										
165	*Feedrate MTEC Calculations*																									
166	Ash		mg/dscm		0.03		0.03		0.03		0.03	100	0.001	100	0.001	100	0.001	100	0.001	3	0.03	3	0.03	3	0.03	3
167	Chlorine		ug/dscm	100	3	100	3	100	3	100	3.2	100	2	100	2	100	19	100	7.7	100	5	100	5	100	23	100
168	Antimony		ug/dscm		12		12	100	11	32	11.7		26		21	100	7	14	18.0	0	38	0	33	100	19	21
169	Arsenic		ug/dscm		29		23		29		26.8		72		86		67		74.8	0	100	0	109	0	96	0
170	Barium		ug/dscm		1	100	3		2	48	2.0		2		2		2		2.0	0	3	60	5	0	4	24
171	Beryllium		ug/dscm		1		1	100	1	22	0.8		2		3		2		2.0	0	3	0	3	24	2	6
172	Cadmium		ug/dscm		2		0	100	1	32	1.1		5		4		3		3.6	0	7	0	4	28	4	7
173	Chromium		ug/dscm		8		31		27		21.9		9	100	1		6	8	5.8	0	17	4	32	0	34	2
174	Lead		ug/dscm		22		20		26		22.5		22		36		25		27.8	0	44	0	56	0	51	0
175	Mercury		ug/dscm		0	100	0	100	0	72	0.2		1		2		1		1.6	0	1	10	2	14	2	9
176	Silver		ug/dscm		4		7		5		5.2		11	100	2		7	8	6.6	0	15	17	9	0	12	4
177	Thallium		ug/dscm	100	12	100	92	100	107	100	70.1	100	60	100	67	100	67	100	64.5	100	72	100	159	100	173	100
178																										
179	SVM		ug/dscm		23.7		20.1		26.9		23.6		26.8		40.0		27.4		31.4		51		60		54	
180	LVM		ug/dscm		37.5		54.2		56.8		49.5		82.9		90.2		74.7		82.6		120		144		132	

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ
121	*Feedrate MTEC Calcul*									
122	Ash									
123	Chlorine									
124	Antimony									
125	Arsenic									
126	Barium									
127	Beryllium									
128	Cadmium									
129	Chromium									
130	Lead									
131	Mercury									
132	Silver									
133	Thallium									
134										
135	SVM									
136	LVM									
137										
138	**1017C4**	Cond Avg		R1		R2		R3		Cond Avg
139										
140	Feedstream Number			F3		F3		F3		F3
141	Feed Class			Total		Total		Total		Total
142	Feed Class 2	HW		Total		Total		Total		Total
143	Feedstream Descriptior			Total		Total		Total		Total
144	Feed Rate									
145	Heating Value									
146	Ash									
147	Chlorine									
148	Antimony									
149	Arsenic									
150	Barium									
151	Beryllium									
152	Cadmium									
153	Chromium									
154	Lead									
155	Mercury									
156	Silver									
157	Thallium									
158										0
159	Stack Gas Flowrate			11197		9986		10402		10528
160	Oxygen			4		4		4.6		4.2
161						4		0		0
162	Thermal Feedrate	21.7		22		22		22		21.7
163										
164										
165	*Feedrate MTEC Calcul*									
166	Ash	0.03	3	0.03	3	0.03	3	0.03	3	0.03
167	Chlorine	11	100	5	100	5	100	23	100	11
168	Antimony	30	0	38	0	33	100	19	21	30
169	Arsenic	102	0	100	0	109	0	96	0	102
170	Barium	4	0	3	60	5	0	4	24	4
171	Beryllium	3	0	3	0	3	24	2	6	3
172	Cadmium	5	0	7	0	4	28	4	7	5
173	Chromium	28	0	17	4	32	0	34	2	28
174	Lead	50	0	44	0	56	0	51	0	50
175	Mercury	2	0	1	10	2	14	2	9	2
176	Silver	12	0	15	17	9	0	12	4	12
177	Thallium	135	100	72	100	159	100	173	100	135
178										
179	SVM	55		51		60		54		55
180	LVM	132		120		144		132		132

	A
1	**Process Information**
2	
3	**1017C1**
4	
5	None reported
6	
7	**1017C2**
8	
9	None reported
10	
11	**1017C3**
12	
13	None reported