	B	C
1	**Source Description**	
2		
3	Phase II ID No.	2007
4	EPA ID No.	KSD007237746
5	Facility Name	Air Products Manufacturing Corp.
6	Facility Location	
7	City	Wichita
8	State	KS
9	Unit ID Name/No.	COEN boiler
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	12.4 MMBtu/hr firing rate
15	Capacity (MMBtu/hr)	12.4
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid wastes
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	2.5
26	Height (ft)	At least 70
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	Tier I metals, chlorine, low risk waste exemption (no PM compliance)
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Cond Description**	
2		
3	**2007C1**	
4		
5	Report Name/Date	Recertification of Compliance for the COEN Waste Fuel Boiler, November 6, 1998
6	Report Prepare	Air Products Manufacturing Corp
7	Testing Firm	Entropy Inc.
8	Testing Dates	September 14, 1998
9	Cond Dates	Sep-98
10	Condition Descr	CoC, max waste, ash feed, min comb temp
11	Content	CO in stack gas; metals/chlorine/ash in feeds

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions**											
2												
3		Comments	Units	7% O2								
4												
5	**2007C1**					R1		R2		R3		Cond Avg
6												
7	CO (RA)	E1	ppmv	y		6.4		5.3		4.4		5.4
8	CO (MHRA)	E1	ppmv	y		7		6		6		6.3
9												
10	Sampling Train	CO	E1									
11	Stack Gas Flowrate		dscfm									
12	O2		%			14		14		14		14.0
13	Moisture		%									
14	Temperature		°F									

	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	AB
1	**Feedstreams**																										
2																											
3																											
4	**2007C1**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
5																											
6	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3		F3
7	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		NG		NG		NG		NG		Total		Total		Total		Total
8	Feed Class 2				HW		HW		HW		HW		MF		MF		MF		MF		Total		Total		Total		Total
9	Feedstream Description				Haz waste		Haz waste		Haz waste		Haz waste		Natural Gas		Natural Gas		Natural Gas		Natural Gas		Total		Total		Total		Total
10	Feed Rate		scfh										9050		9050		9050		9050								
11	Feed Rate		g/hr		1.95E+05		1.93E+05		1.92E+05				194000		194000		194000		194000								
12	Thermal Feedrate		MMBtu/hr		10.1		10		9.95		10.0		2.9		3.0		3.0		3.0		13.0		13.0		12.9		13.0
13	Heating Value		Btu/lb		8160		8160		8160		8160.0		23500		23500		23500		23500								
14	Ash		g/hr		285		339		353		325.7																
15	Chlorine		g/hr	nd	16.4	nd	16.4	nd	16.4		16.4																
16	Antimony		g/hr		0.009		0.013		0.026		0.016																
17	Arsenic		g/hr		1.00E-02		0.019		0.02		0.016																
18	Barium		g/hr	nd	1.60E-02	nd	1.60E-02	nd	0.016		0.016																
19	Beryllium		g/hr	nd	2.00E-04	nd	2.00E-04	nd	2.00E-04		2.0E-04																
20	Cadmium		g/hr	nd	2.00E-04	nd	2.00E-04	nd	2.00E-04		2.0E-04																
21	Chromium		g/hr		5.00E-04		0.001		0.001		0.001																
22	Lead		g/hr		0.002		0.002		0.002		0.002																
23	Mercury		g/hr	nd	3.00E-05	nd	3.00E-05	nd	3.00E-05		3.0E-05																
24	Nickel		g/hr		3.00E-02		3.00E-02		0.028		0.029																
25	Selenium		g/hr		0.028		2.90E-02		0.028		0.028																
26	Silver		g/hr	nd	0.001	nd	1.00E-03	nd	0.001		0.001																
27	Thallium		g/hr	nd	2.00E-04	nd	2.00E-04	nd	2.00E-04		2.0E-04																
28																											
29	Oxygen		%		14		14		14		14																
30	Stack Gas Flowrate		dscfm		5863.5		5827.5		5814		5844																
31	(estimated based on firing rate and O2 and F-factor)																										
32																											
33	*Feedrate MTEC Calculations*																										
34	Ash		mg/dscm		57.3		68.5		71.5		65.6										57.3		68.5		71.5		65.8
35	Chlorine		µg/dscm	100	3294.4	100	3314.8	100	3322.5	100	3305.4									100	3294.4	100	3314.8	100	3322.5	100	3310.6
36	Antimony		µg/dscm		1.8		2.6		5.3		3.2										1.8		2.6		5.3		3.2
37	Arsenic		µg/dscm		2.0		3.8		4.1		3.3										2.0		3.8		4.1		3.3
38	Barium		µg/dscm	100	3.2	100	3.2	100	3.2	100	3.2									100	3.2	100	3.2	100	3.2	100	3.2
39	Beryllium		µg/dscm	100	0.0	100	0.0	100	0.0	100	0.0									100	0.0	100	0.0	100	0.0	100	0.0
40	Cadmium		µg/dscm	100	0.0	100	0.0	100	0.0	100	0.0									100	0.0	100	0.0	100	0.0	100	0.0
41	Chromium		µg/dscm		0.1		0.2		0.2		0.2										0.1		0.2		0.2		0.2
42	Lead		µg/dscm		0.4		0.4		0.4		0.4										0.4		0.4		0.4		0.4
43	Mercury		µg/dscm	100	0.0	100	0.0	100	0.0	100	0.0									100	0.0	100	0.0	100	0.0	100	0.0
44	Nickel		µg/dscm		6.0		6.1		5.7		5.9										6.0		6.1		5.7		5.9
45	Selenium		µg/dscm		5.6		5.9		5.7		5.7										5.6		5.9		5.7		5.7
46	Silver		µg/dscm	100	0.2	100	0.2	100	0.2	100	0.2									100	0.2	100	0.2	100	0.2	100	0.2
47	Thallium		µg/dscm	100	0.0	100	0.0	100	0.0	100	0.0									100	0.0	100	0.0	100	0.0	100	0.0
48	SVM		µg/dscm	9	0.4	9	0.4	9.1	0.4	9.5	0.4									9.1	0.4	9.1	0.4	9.09	0.4	9.5	0.4
49	LVM		µg/dscm	2	2.1	1	4.1	0.9	4.3	2.3	1.8									1.9	2.1	1	4.1	0.94	4.3	2.3	3.5
50																											
51	**BIF Feedrate Limits**																										
52																											
53	Chlorine		g/hr								148																
54	Arsenic		g/hr								0.85 / 0.17																
55	Mercury		g/hr								29.6																
56	Silver		g/hr								1110																
57	Barium		g/hr								18500																
58	Beryllium		g/hr								1.52 / 0.08																
59	Cadmium		g/hr								2.03 / 0.33																
60	Chromium		g/hr								0.31 / 0.17																

	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	AB
61	Nickel		g/hr								7400																
62	Lead		g/hr								33.3																
63	Antimony		g/hr								111																
64	Thallium		g/hr								111																
65	Selenium		g/hr								1500																
66																											
67	max indiv / max feeding all 4																										

	A	B	C
1	**Process Information**		
2			
3			Cond Avg
4	**2007C1**		
5			
6	Comb Chamber Temp	°F	1525