EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 734

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
Case 1: Firing natural gas for Boilers 1, 2, 6, and 7. Firing natural gas and supplemental hydrocarbon fuel for Boilers 4 and 5, (EPNs 1-C-1D and 1-C-1E only). 8,760 hours per year (hrs/yr):				
1-C-1A	Boiler 1 (96 MMBtu/hr)	NO_x	8.75	38.30
		CO	7.35	32.17
		SO_2	0.05	0.23
		PM_{10}	0.67	2.91
		VOC	0.48	2.11
1-C-1B	Boiler 2 (96 MMBtu/hr)	NO_x	8.75	38.30
		CO	7.35	32.17
		SO_2	0.05	0.23
		PM_{10}	0.67	2.91
		VOC	0.48	2.11
1-C-1D	Boiler 4 (96 MMBtu/hr)	NO_x	9.72	42.59
		CO	6.85	29.99
		SO_2	0.04	0.20
		PM_{10}	0.79	3.47
		VOC	0.43	1.90
1-C-1E	Boiler 5 (114 MMBtu/hr)	NO_x	25.80	113.00
		CO	7.42	32.50
		SO_2	0.04	0.18
		PM_{10}	1.17	5.11
		VOC	0.45	1.95
1-C-1F	Boiler 6 (126 MMBtu/hr)	NO_x	32.20	141.04
		CO	9.66	42.31
		SO_2	0.07	0.30
		PM_{10}	0.87	3.83

EMISSION SOURCES - MAXIMUM
ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		VOC	0.63	2.77
1-C-1G	Boiler 7**	NO_x	4.20	5.26
	(120 MMBtu/hr)	CO	10.10	18.40
	(Supplemental Boiler)	SO_2	0.07	0.088
		PM_{10}	0.88	1.10
		VOC	0.64	0.80

** Boiler No. 7 is only authorized to burn natural gas. Annual emission rates are based on best available control technology as noted in Special Condition No. 7.

Case 2: Waste liquid fuel firing 168 hrs/yr (4):

1-C-1A	Boiler 1	NO_x	99.84	8.39
	(96 MMBtu/hr)	CO	4.16	0.35
		PM_{10}	1.66	0.14
		VOC	0.17	0.01
1-C-1B	Boiler 2	NO_x	99.84	8.39
	(96 MMBtu/hr)	CO	4.16	0.35
		PM_{10}	1.66	0.14
		VOC	0.17	0.01
1-C-1D	Boiler 4	NO_x	77.92	6.55
	(96 MMBtu/hr)	CO	4.16	0.35
		PM_{10}	1.66	0.14
		VOC	0.17	0.01
1-C-1E	Boiler 5	NO_x	95.58	8.03
	(114 MMBtu/hr)	CO	4.90	0.41
		PM_{10}	1.96	0.16
		VOC	0.20	1.02
1-C-1F	Boiler 6	NO_x	131.33	11.03
	(126 MMBtu/hr)	CO	5.47	0.46

EMISSION SOURCES - MAXIMUM
ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		PM_{10}	2.19	0.18
		VOC	0.22	0.02
Case 3: No. 4 fuel oil firing 336 hrs/yr:				
1-C-1A	Boiler 1 (96 MMBtu/hr)	NO_x	16.64	2.80
		CO	4.16	0.70
		PM_{10}	5.82	0.98
		VOC	0.17	0.03
		SO_2	35.44	5.95
		SO_3	0.50	0.08
1-C-1B	Boiler 2 (96 MMBtu/hr)	NO_x	16.64	2.80
		CO	4.16	0.70
		PM_{10}	5.82	0.98
		VOC	0.17	0.03
		SO_2	35.44	5.95
		SO_3	0.50	0.08
1-C-1D	Boiler 4 (96 MMBtu/hr)	NO_x	16.64	2.80
		CO	4.16	0.70
		PM_{10}	4.73	0.79
		VOC	0.17	0.03
		SO_2	26.11	4.39
		SO_3	0.50	0.08
1-C-1E	Boiler 5 (114 MMBtu/hr)	NO_x	19.58	3.29
		CO	4.90	0.82
		PM_{10}	5.76	0.97
		VOC	0.20	0.03
		SO_2	32.38	5.44
		SO_3	0.46	0.08
1-C-1F	Boiler 6	NO_x	21.89	3.68

EMISSION SOURCES - MAXIMUM
ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	(126 MMBtu/hr)	CO	5.47	0.92
		SO_2	46.62	7.83
		SO_3	0.66	0.11
		PM_{10}	7.66	1.29
		VOC	0.22	0.04
Case 4: Natural gas (Firing a combination of natural gas and supplemental hydrocarbon fuel [EPNs 1-C-1D and 1-C-1E only]) 8,256 hrs/yr, waste liquid fuel 168 hrs/yr, and No. 4 fuel oil 336 hrs/yr:				
1-C-1A	Boiler 1	NO_x	99.84	47.28
	(96 MMBtu/hr)	CO	7.35	31.37
		SO_2	35.44	6.17
		SO_3	0.50	0.08
		PM_{10}	5.82	3.87
		VOC	0.48	2.03
1-C-1B	Boiler 2	NO_x	99.84	47.28
	(96 MMBtu/hr)	CO	7.35	31.37
		SO_2	35.44	6.17
		SO_3	0.50	0.08
		PM_{10}	5.82	3.87
		VOC	0.48	2.03
1-C-1D	Boiler 4	NO_x	77.92	48.64
	(96 MMBtu/hr)	CO	6.85	29.31
		SO_2	26.11	3.85
		SO_3	0.37	0.05
		PM_{10}	4.73	4.12
		VOC	0.43	1.82
1-C-1e	Boiler 5	NO_x	95.58	116.97
	(114 MMBtu/hr)	CO	7.42	31.86
		SO_2	32.38	4.89
		SO_3	0.46	0.07
		PM_{10}	5.76	5.86

		VOC	0.45	1.89
1-C-1F	Boiler 6 (126 MMBtu/hr)	NO_x	131.33	147.63
		CO	9.66	41.26
		SO_2	46.62	8.12
		SO_3	0.66	0.11
		PM_{10}	7.66	5.08
		VOC	0.63	2.67

EMISSION SOURCES - MAXIMUM
ALLOWABLE EMISSION RATES

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name.
(3) SO_3 - sulfur trioxide
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide

* The facilities are limited by the following maximum operating schedule:

Hrs/day ____ Days/week ____ Weeks/year ____ or Hrs/year 8,760

Dated August 4, 2005