APPENDIX J

Major source of GHG is potential to emit for greater than 100,000 tons of CO2e

	Fuel	MMBtu/yr	CO_2 tons/yr	CH_4 tons/yr	N_2O tons/yr	CO_2e tons/yr
Power Plant Boilers	No. 6 Oil	3,525,900	291,886	11.66	2.33	292,854
Small Boilers	No. 2 Oil	133,064	10,848	0.44	0.09	10,885
Emergency Engines	No. 2 Oil	11,862	967	0.04	0.01	970
Small Boilers	Propane	19,009	1,288	0.06	0.01	1,293
Emergency Engines	Propane	85,585	5,798	0.28	0.06	5,822
			310,788	**12.49**	**2.50**	**311,824**

	CO_2 kg/MMBtu	CH_4 kg/MMBtu	N_2O kg/MMBtu
No. 6 Oil	75.1	3.00E-03	6.00E-04
No. 2 Oil	73.96	3.00E-03	6.00E-04
Propane	61.46	3.00E-03	6.00E-04
Part 98 Emission Factor	Table C-1	Table C-2	Table C-2
Part 98 Table A-1 GWP	1	21	310

Actual GHG as reported under Part 98

2010	55,058.6	tonnes CO_2e =	60,691.6	tons CO_2e
2011	55,673.5	tonnes CO_2e =	61,369.5	tons CO_2e

DARTMOUTH COLLEGE
Hanover, New Hampshire
MACT APPLICABILITY EVALUATION
HEATING PLANT OIL-FIRED BOILERS

Individual HAP Compound	Power Plant Boilers ton/yr	Small Distillate Boilers ton/yr	Emergency Diesel Engines ton/yr	Small Propane Boilers ton/yr	Emergency LP Engines ton/yr	Total Facility ton/yr	
Acetaldehyde	#N/A	#N/A	4.55E-03	AP-42 Section 1.5 (LP Combustion) does not contain HAP emission factors for propane combustion	AP-42 Sections 1.5 (LP combustion) or 3.2 through 3.4 (natural gas and diesel engines) do not contain HAP emission factors for propane combustion	0.005	Acetaldehyde
Acrolein	#N/A	#N/A	5.49E-04			0.001	Acrolein
Benzene	2.52E-03	1.04E-04	5.53E-03			0.008	Benzene
1,3-Butadiene	#N/A	#N/A	2.32E-04			0.0002	1,3-Butadiene
Ethyl benzene	7.47E-04	3.09E-05	#N/A			0.001	Ethyl benzene
Formaldehyde	3.88E-01	2.96E-02	7.00E-03			0.424	Formaldehyde
Naphthalene	1.33E-02	5.49E-04	5.03E-04			0.014	Naphthalene
POM / PAH	1.53E-02	1.60E-03	9.96E-04			0.018	POM / PAH
Toluene	7.29E-02	3.01E-03	2.43E-03			0.078	Toluene
Xylenes	1.28E-03	5.29E-05	1.69E-03			0.003	Xylenes
Antimony / compounds	6.17E-02	#N/A	#N/A			0.062	Antimony / compounds
Arsenic / compounds	1.55E-02	2.66E-04	#N/A			0.016	Arsenic / compounds
Beryllium / compounds	3.27E-04	2.00E-04	#N/A			0.001	Beryllium / compounds
Cadmium / compounds	4.68E-03	2.00E-04	#N/A			0.005	Cadmium / compounds
Chromium / compounds	9.93E-03	2.00E-04	#N/A			0.010	Chromium / compounds
Cobalt / compounds	7.08E-02	#N/A	#N/A			0.071	Cobalt / compounds
Manganese / compounds	3.53E-02	3.99E-04	#N/A			0.036	Manganese / compounds
Mercury / compounds	1.33E-03	2.00E-04	#N/A			0.002	Mercury / compounds
Nickel / compounds	9.93E-01	2.00E-04	#N/A			0.993	Nickel / compounds
Selenium / compounds	8.03E-03	9.98E-04	#N/A			0.009	Selenium / compounds
Hydrogen Chloride	4.19E+00	1.73E-01	#N/A			4.366	Hydrogen Chloride
Hydrogen Fluoride	1.64E-04	6.79E-06	#N/A			0.0002	Hydrogen Fluoride
1,1,1-Trichloroethane	2.77E-03	1.15E-04	#N/A			0.003	1,1,1-Trichloroethane
	5.89	**0.21**	**0.02**		TOTAL HAPS	**6.13**	
					MAXIMUM INDIVIDUAL HAP	**4.37**	**Hydrogen Chloride**

#N/A - AP-42 emission factor is not available for that equipment and fuel type

DARTMOUTH COLLEGE
Hanover, New Hampshire
MACT APPLICABILITY EVALUATION
HEATING PLANT OIL-FIRED BOILERS

EMISSION FACTORS

Pollutant	Emission Factor		Notes / Comments
	Factor	Reference	
HAP compounds			
VOC HAPs			
Benzene	2.14E-04 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: C
Ethyl benzene	6.36E-05 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: E
Formaldehyde	3.30E-02 lb/10³ gal	AP-42, Table 1.3-9	See Note 1 AP-42 factor rating: C
Naphthalene	1.13E-03 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: C
Polycyclic Organic Matter	1.30E-03 lb/10³ gal	AP-42, Table 1.3-8	See Note 2 AP-42 factor rating: E
Toluene	6.20E-03 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: D
o-Xylene	1.09E-04 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: E
PM HAPs			
Antimony / compounds	5.25E-03 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: E
Arsenic / compounds	1.32E-03 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Beryllium / compounds	2.78E-05 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Cadmium / compounds	3.98E-04 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Chromium / compounds	8.45E-04 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Cobalt / compounds	6.02E-03 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: D
Manganese / compounds	3.00E-03 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Mercury / compounds	1.13E-04 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Nickel / compounds	8.45E-02 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Selenium / compounds	6.83E-04 lb/10³ gal	AP-42, Table 1.3-11	AP-42 factor rating: C
Other HAPs			
Hydrogen Chloride	0.36 lb/10³ gal	NCASI-SARA	
Hydrogen Fluoride	1.4E-05 lb/MMBtu	NCASI-SARA	
1,1,1-Trichloroethane	2.36E-04 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: E

NOTES:

1. AP-42 presents two factors for formaldehyde. The factor in Table 1.3-9 was selected because it has a superior quality rating.
2. AP-42 presents factors for POM in Table 1.3-8 and factors for selected polycyclic aromatic hydrocarbons in Table 1.3-9. The factor from Table 1.3-8 was selected because it is of a higher magnitude than the sum of the PAH factors.

EQUIPMENT DESIGN / OPERATIONAL DATA

			Source of Input Data
Maximum operating hours	8,760	hr/yr	Default value
Maximum heat input - Fuel oil - hourly	402.5	MMBtu/hr	Combined maximum heat input capacity for four boilers
Maximum heat input - Fuel oil - annual	3,525,900.00	MMBtu/yr	402.500 MMBtu/hr * 8,760 hr/yr
Residual fuel oil heat content	0.15	MMBtu/gal	Estimate (typical value, per AP-42 Appendix A)
Maximum throughput - Fuel oil - hourly	2.683	1000 gal/hr	402.500 MMBtu/hr * gal/0.15 MMBtu
Maximum throughput - Fuel oil - annual	23,506.00	1000 gal/yr	2.683 1000 gal/hr * 8,760 hr/yr

POTENTIAL TO EMIT

Pollutant	Emission Factor	Emissions (lb/hr)	Emissions (TPY)
HAP compounds		**1.35**	**5.89**
Benzene	2.14E-04 lb/10³ gal	5.74E-04	2.52E-03
Ethyl benzene	6.36E-05 lb/10³ gal	1.71E-04	7.47E-04
Formaldehyde	3.30E-02 lb/10³ gal	8.86E-02	0.39
Naphthalene	1.13E-03 lb/10³ gal	3.03E-03	1.33E-02
Polycyclic Organic Matter	1.30E-03 lb/10³ gal	3.49E-03	1.53E-02
Toluene	6.20E-03 lb/10³ gal	1.66E-02	7.29E-02
o-Xylene	1.09E-04 lb/10³ gal	2.92E-04	1.28E-03
Antimony / compounds	5.25E-03 lb/10³ gal	1.41E-02	6.17E-02
Arsenic / compounds	1.32E-03 lb/10³ gal	3.54E-03	1.55E-02
Beryllium / compounds	2.78E-05 lb/10³ gal	7.46E-05	3.27E-04
Cadmium / compounds	3.98E-04 lb/10³ gal	1.07E-03	4.68E-03
Chromium / compounds	8.45E-04 lb/10³ gal	2.27E-03	9.93E-03
Cobalt / compounds	6.02E-03 lb/10³ gal	1.62E-02	7.08E-02
Manganese / compounds	3.00E-03 lb/10³ gal	8.05E-03	3.53E-02
Mercury / compounds	1.13E-04 lb/10³ gal	3.03E-04	1.33E-03
Nickel / compounds	8.45E-02 lb/10³ gal	0.23	0.99
Selenium / compounds	6.83E-04 lb/10³ gal	1.83E-03	8.03E-03
Hydrogen Chloride	0.36 lb/10³ gal	0.96	4.19
Hydrogen Fluoride	1.40E-05 lb/MMBtu	5.64E-03	1.64E-04
1,1,1-Trichloroethane	2.36E-04 lb/10³ gal	6.33E-04	2.77E-03

TOTAL COMBINED MAXIMUM ANNUAL HAP EMISSIONS: **5.89 TPY**

MAXIMUM INDIVIDUAL HAP COMPOUND: **4.19 TPY** **Hydrogen Chloride**

DARTMOUTH COLLEGE
Hanover, New Hampshire
MACT APPLICABILITY EVALUATION
DIESEL-FIRED EMERGENCY ENGINES

EMISSION FACTORS

Pollutant	Emission Factor		Notes / Comments
	Factor	Reference	
HAP compounds			
VOC HAPs			
Acetaldehyde	7.67E-04 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
Acrolein	9.25E-05 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
Benzene	9.33E-04 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
1,3-Butadiene	3.91E-05 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
Formaldehyde	1.18E-03 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
Naphthalene	8.48E-05 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
PAH	1.68E-04 lb/MMBtu	AP-42, Table 3.3-2	See Note 1 AP-42 factor rating: E
Toluene	4.09E-04 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E
Xylenes	2.85E-04 lb/MMBtu	AP-42, Table 3.3-2	AP-42 factor rating: E

NOTES:

1. PAH also inlcudes naphthalene as an individual HAP compound

EQUIPMENT DESIGN / OPERATIONAL DATA

			Source of Input Data
Maximum operating hours	200	hr/yr	Permit Limit for all emergency engines
Maximum heat input - diesel - hourly	59.3	MMBtu/hr	Combined maximum heat input capacity for diesel emerg
Maximum heat input - diesel - annual	11,862.00	MMBtu/yr	59.31 MMBtu/hr * 200 hr/yr

POTENTIAL TO EMIT

Pollutant	Emission Factor	Emissions (lb/hr)	Emissions (TPY)
HAP compounds		**0.23**	**0.02**
Acetaldehyde	7.67E-04 lb/MMBtu	4.55E-02	4.55E-03
Acrolein	9.25E-05 lb/MMBtu	5.49E-03	5.49E-04
Benzene	9.33E-04 lb/MMBtu	5.53E-02	5.53E-03
1,3-Butadiene	3.91E-05 lb/MMBtu	2.32E-03	2.32E-04
Formaldehyde	1.18E-03 lb/MMBtu	7.00E-02	7.00E-03
Naphthalene	8.48E-05 lb/MMBtu	5.03E-03	5.03E-04
PAH	1.68E-04 lb/MMBtu	9.96E-03	9.96E-04
Toluene	4.09E-04 lb/MMBtu	2.43E-02	2.43E-03
Xylenes	2.85E-04 lb/MMBtu	1.69E-02	1.69E-03

TOTAL COMBINED MAXIMUM ANNUAL HAP EMISSIONS: **0.023** **TPY**

MAXIMUM INDIVIDUAL HAP COMPOUND: **0.007** **TPY** **Formaldehyde**

DARTMOUTH COLLEGE
Hanover, New Hampshire
MACT APPLICABILITY EVALUATION
SMALL OIL-FIRED BOILERS

EMISSION FACTORS

Pollutant	Emission Factor		Notes / Comments
	Factor	Reference	
HAP compounds			
VOC HAPs			
Benzene	2.14E-04 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: C
Ethyl benzene	6.36E-05 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: E
Formaldehyde	6.10E-02 lb/10³ gal	AP-42, Table 1.3-8	See Note 1 AP-42 factor rating: E
Naphthalene	1.13E-03 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: C
Polycyclic Organic Matter	3.30E-03 lb/10³ gal	AP-42, Table 1.3-8	See Note 2 AP-42 factor rating: E
Toluene	6.20E-03 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: D
o-Xylene	1.09E-04 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: E
PM HAPs			
Arsenic / compounds	4.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Beryllium / compounds	3.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Cadmium / compounds	3.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Chromium / compounds	3.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Manganese / compounds	6.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Mercury / compounds	3.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Nickel / compounds	3.00E+00 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Selenium / compounds	1.50E+01 lb/10^{12} Btu	AP-42, Table 1.3-10	AP-42 factor rating: E
Other HAPs			
Hydrogen Chloride	0.36 lb/10³ gal	NCASI-SARA	
Hydrogen Fluoride	1.4E-05 lb/MMBtu	NCASI-SARA	
1,1,1-Trichloroethane	2.36E-04 lb/10³ gal	AP-42, Table 1.3-9	AP-42 factor rating: E

NOTES:

1. AP-42 presents no factor for formaldehyde from residential furnaces. Used higher range of factor given for larger distillate oil-fired boilers.
2. AP-42 presents factors for POM in Table 1.3-8 and factors for selected polycyclic aromatic hydrocarbons in Table 1.3-9. The factor from Table 1.3-8 was selected because it is of a higher magnitude than the sum of the PAH factors.

EQUIPMENT DESIGN / OPERATIONAL DATA

			Source of Input Data
Maximum operating hours	8,760	hr/yr	Default value
Maximum heat input - Fuel oil - hourly	15.2	MMBtu/hr	Estimated maximum heat input capacity for all small boilers
Maximum heat input - Fuel oil - annual	133,064.40	MMBtu/yr	15.190 MMBtu/hr * 8,760 hr/yr
Distillate fuel oil heat content	0.137	MMBtu/gal	Estimate (typical value, per AP-42 Appendix A)
Maximum throughput - Fuel oil - hourly	0.111	1000 gal/hr	15.190 MMBtu/hr * gal/0.14 MMBtu
Maximum throughput - Fuel oil - annual	971.27	1000 gal/yr	0.111 1000 gal/hr * 8,760 hr/yr

POTENTIAL TO EMIT

Pollutant	Emission Factor	Emissions (lb/hr)	Emissions (TPY)
HAP compounds		**0.05**	**0.21**
Benzene	2.14E-04 lb/10³ gal	2.37E-05	1.04E-04
Ethyl benzene	6.36E-05 lb/10³ gal	7.05E-06	3.09E-05
Formaldehyde	6.10E-02 lb/10³ gal	6.76E-03	0.03
Naphthalene	1.13E-03 lb/10³ gal	1.25E-04	5.49E-04
Polycyclic Organic Matter	3.30E-03 lb/10³ gal	3.66E-04	1.60E-03
Toluene	6.20E-03 lb/10³ gal	6.87E-04	3.01E-03
o-Xylene	1.09E-04 lb/10³ gal	1.21E-05	5.29E-05
Arsenic / compounds	4.00E+00 lb/10^{12} Btu	6.08E-05	2.66E-04
Beryllium / compounds	3.00E+00 lb/10^{12} Btu	4.56E-05	2.00E-04
Cadmium / compounds	3.00E+00 lb/10^{12} Btu	4.56E-05	2.00E-04
Chromium / compounds	3.00E+00 lb/10^{12} Btu	4.56E-05	2.00E-04
Manganese / compounds	6.00E+00 lb/10^{12} Btu	9.11E-05	3.99E-04
Mercury / compounds	3.00E+00 lb/10^{12} Btu	4.56E-05	2.00E-04
Nickel / compounds	3.00E+00 lb/10^{12} Btu	4.56E-05	2.00E-04
Selenium / compounds	1.50E+01 lb/10^{12} Btu	2.28E-04	9.98E-04
Hydrogen Chloride	0.36 lb/10³ gal	0.04	0.17
Hydrogen Fluoride	1.40E-05 lb/MMBtu	2.13E-04	6.79E-06
1,1,1-Trichloroethane	2.36E-04 lb/10³ gal	2.62E-05	1.15E-04

TOTAL COMBINED MAXIMUM ANNUAL HAP EMISSIONS: **0.21 TPY**

MAXIMUM INDIVIDUAL HAP COMPOUND: **0.17 TPY** **Hydrogen Chloride**

DARTMOUTH COLLEGE
Hanover, New Hampshire
MACT APPLICABILITY EVALUATION
SMALL PROPANE-FIRED BOILERS

EMISSION FACTORS

Pollutant	Emission Factor		Notes / Comments
	Factor	Reference	
HAP compounds			
VOC HAPs			
Benzene			AP-42 factor rating:
Ethyl benzene			AP-42 factor rating:
Formaldehyde			AP-42 factor rating:
Naphthalene			AP-42 factor rating:
Polycyclic Organic Matter			AP-42 factor rating:
Toluene			AP-42 factor rating:
o-Xylene			AP-42 factor rating:
PM HAPs			
Arsenic / compounds			AP-42 factor rating:
Beryllium / compounds			AP-42 factor rating:
Cadmium / compounds			AP-42 factor rating:
Chromium / compounds			AP-42 factor rating:
Manganese / compounds			AP-42 factor rating:
Mercury / compounds			AP-42 factor rating:
Nickel / compounds			AP-42 factor rating:
Selenium / compounds			AP-42 factor rating:
Other HAPs			
Hydrogen Chloride			
Hydrogen Fluoride			
1,1,1-Trichloroethane			AP-42 factor rating:

NOTES:

1.
2.

EQUIPMENT DESIGN / OPERATIONAL DATA

			Source of Input Data
Maximum operating hours	8,760	hr/yr	Default value
Maximum heat input - Propane - hourly	2.2	MMBtu/hr	Estimated maximum heat input capacity for all small boilers
Maximum heat input - Propane - annual	19,009.20	MMBtu/yr	2.170 MMBtu/hr * 8,760 hr/yr

POTENTIAL TO EMIT

Pollutant	Emission Factor		Emissions (lb/hr)	Emissions (TPY)
HAP compounds			**#REF!**	**#REF!**
Benzene	0.00E+00	0.00E+00	#REF!	#REF!
Ethyl benzene	0.00E+00	0.00E+00	#REF!	#REF!
Formaldehyde	0.00E+00	0.00E+00	#REF!	#REF!
Naphthalene	0.00E+00	0.00E+00	#REF!	#REF!
Polycyclic Organic Matter	0.00E+00	0.00E+00	#REF!	#REF!
Toluene	0.00E+00	0.00E+00	#REF!	#REF!
o-Xylene	0.00E+00	0.00E+00	#REF!	#REF!
Arsenic / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Beryllium / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Cadmium / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Chromium / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Manganese / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Mercury / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Nickel / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Selenium / compounds	0.00E+00	lb/10^{12} Btu	0.00E+00	0.00E+00
Hydrogen Chloride	0.00	0.00E+00	#REF!	#REF!
Hydrogen Fluoride	0.00E+00	0.00E+00	0.00E+00	#REF!
1,1,1-Trichloroethane	0.00E+00	0.00E+00	#REF!	#REF!

TOTAL COMBINED MAXIMUM ANNUAL HAP EMISSIONS: **#REF!** **TPY**

MAXIMUM INDIVIDUAL HAP COMPOUND: **#REF!** **TPY** **Hydrogen Chloride**

DARTMOUTH COLLEGE
Hanover, New Hampshire
MACT APPLICABILITY EVALUATION
LP-FIRED EMERGENCY ENGINES

EMISSION FACTORS

Pollutant	Emission Factor		Notes / Comments
	Factor	Reference	
HAP compounds			
Benzene			AP-42 factor rating:
Ethyl benzene			AP-42 factor rating:
Formaldehyde			AP-42 factor rating:
Naphthalene			AP-42 factor rating:
Polycyclic Organic Matter			AP-42 factor rating:
Toluene			AP-42 factor rating:
o-Xylene			AP-42 factor rating:
Antimony / compounds			AP-42 factor rating:
Arsenic / compounds			AP-42 factor rating:
Beryllium / compounds			AP-42 factor rating:
Cadmium / compounds			AP-42 factor rating:
Chromium / compounds			AP-42 factor rating:
Cobalt / compounds			AP-42 factor rating:
Copper/compounds			AP-42 factor rating:
Manganese / compounds			AP-42 factor rating:
Mercury / compounds			AP-42 factor rating:
Nickel / compounds			AP-42 factor rating:
Selenium / compounds			AP-42 factor rating:
Hydrogen Chloride			
Hydrogen Fluoride			
1,1,1-Trichloroethane			AP-42 factor rating:

NOTES:
1.
2.

EQUIPMENT DESIGN / OPERATIONAL DATA

			Source of Input Data
Maximum operating hours	8,760	hr/yr	Default value
Maximum heat input - Fuel oil - hourly	9.8	MMBtu/hr	Combined maximum heat input capacity for LP Emerger
Maximum heat input - Fuel oil - annual	85,585.20	MMBtu/yr	9.770 MMBtu/hr * 8,760 hr/yr

POTENTIAL TO EMIT

Pollutant	Emission Factor	Emissions (lb/hr)	Emissions (TPY)
HAP compounds		**#REF!**	**#REF!**
Benzene	0.00E+00 0.00E+00	#REF!	#REF!
Ethyl benzene	0.00E+00 0.00E+00	#REF!	#REF!
Formaldehyde	0.00E+00 0.00E+00	#REF!	#REF!
Naphthalene	0.00E+00 0.00E+00	#REF!	#REF!
Polycyclic Organic Matter	0.00E+00 0.00E+00	#REF!	#REF!
Toluene	0.00E+00 0.00E+00	#REF!	#REF!
o-Xylene	0.00E+00 0.00E+00	#REF!	#REF!
Antimony / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Arsenic / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Beryllium / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Cadmium / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Chromium / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Cobalt / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Copper/compounds	0.00E+00 0.00E+00	#REF!	#REF!
Manganese / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Mercury / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Nickel / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Selenium / compounds	0.00E+00 0.00E+00	#REF!	#REF!
Hydrogen Chloride	0.00 0.00E+00	#REF!	#REF!
Hydrogen Fluoride	0.00E+00 0.00E+00	0.00E+00	#REF!
1,1,1-Trichloroethane	0.00E+00 0.00E+00	#REF!	#REF!

TOTAL COMBINED MAXIMUM ANNUAL HAP EMISSIONS: **#REF!** **TPY**

MAXIMUM INDIVIDUAL HAP COMPOUND: **#REF!** **TPY** **Hydrogen Chloride**