EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310572-001-AC **EU NUMBER:** 001

REFERENCES: 0310572-001-AC application

POLLUTANT: VOC

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	10			

POTENTIAL EMISSION CALCULATIONS

(ppmv) X (grams per mole of NMP) / (temperature in degrees Kelvin) X (12.187 conversion factor to end with milligrams per cubic meter) X (3000 cubic feet per minute) / (35.3 cubic feet per cubic meter) / (454 grams per pound) / (1000 miligrams per gram) X (60 minutes per hour) = PTE

10	99.13	294.260	12.187	3000	35.30	454	1000	60

= 0.46 lb/hr
= 2.02 tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS: Based upon reported wet scrubber outlet conditions

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310572-001-AC **EU NUMBER:** 002

REFERENCES: 0310572-001-AC application

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
		5		

POTENTIAL EMISSION CALCULATIONS

(MMBTU per hour) / (MMBTU per million cubic feet natural gas) X (AP-42 EF) = PTE

14.4	1020	7.6	=	0.11	lb/hr
			=	0.47	tpy

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.700(2)(a)	2.1101
		62.296.320(4)(b)1	

COMMENTS:

POLLUTANT: Particulate Matter less than or equal to 10 micrometers (PM_{10})

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
		5		

POTENTIAL EMISSION CALCULATIONS

(MMBTU per hour) / (MMBTU per million cubic feet natural gas) X (AP-42 EF) = PTE

14.4	1020	5.7	=	0.08	lb/hr
			=	0.35	tpy

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.700(2)(a)	2.1101
		62.296.320(4)(b)1	

COMMENTS:

POLLUTANT: VOC

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	5			

POTENTIAL EMISSION CALCULATIONS

(MMBTU per hour) / (MMBTU per million cubic feet natural gas) X (AP-42 EF) = PTE

14.4 1020 5.50 = 0.08 lb/hr
0.34 tpy

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-210.300(3)(b)	2.301
		62-296.320(1)	2.1101

COMMENTS:

POLLUTANT: Nitrogen Oxides (NO_x)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	100			

POTENTIAL EMISSION CALCULATIONS

(MMBTU per hour) / (MMBTU per million cubic feet natural gas) X (AP-42 EF) = PTE

14.4 1020 94 = 1.33 lb/hr
5.81 tpy

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Sulfur Dioxide (SO_2)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	100			

POTENTIAL EMISSION CALCULATIONS

(MMBTU per hour) / (MMBTU per million cubic feet natural gas) X (AP-42 EF) = PTE

14.4 1020 0.60 = 0.01 lb/hr
0.04 tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Carbon Monoxide (CO)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	100			

POTENTIAL EMISSION CALCULATIONS

(MMBTU per hour) / (MMBTU per million cubic feet natural gas) X (AP-42 EF) = PTE

14.4 1020 40 = 0.56 lb/hr
2.47 tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97