May 16, 2003

Scott Litmer Wood-Mizer 8180 West 10th Street Indianapolis, Indiana 46214

Re: Registered Construction and Operation Status, 097-12613-00394

Dear Mr. Litmer:

The application from Wood-Mizer, received on February 19, 2002, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.1-2, it has been determined that the following woodworking operation, to be located at 8180 West 10th Street, Indianapolis, Indiana 46214 is classified as registered:

- (a) Welding operations, identified as B9, consisting of twelve (12) MIG weld stations each with a maximum capacity of 4.5 pounds per hour (lbs/hr), one (1) aluminum MIG weld station with a maximum capacity of 4.5 pounds per hour (lbs/hr), two (2) TIG weld stations each with a maximum capacity of 4.5 pounds per hour, three (3) oxyacetylene cutters each with a maximum capacity of 18 inches per minute, and one (1) portable arc welder, exhausting to stack B9.
- (b) Woodworking operations in the Customer Service Department, identified as B8, with a maximum capacity of 3,900 cubic feet per minute (cfm) of wood, using a baghouse and cyclone for particulate control, and vented internally.
- (c) Woodworking operations in the Wood Products Building, identified as F1, with a maximum capacity of 15,500 cubic feet per minute (cfm) of wood, using a baghouse and cyclone for particulate control, and vented internally.
- (d) Equipment testing activities, identified as B7, conducted in the Customer Service Department, with the capacity to operate five (5) 42 horse power (hp) diesel engines, and exhausting to stack B7.
- (e) Equipment testing activities, identified as H5, conducted in the Research and Development Department, with the capacity to operate three (3) 42 horse power (hp) diesel engines, exhausting to stack H5.
- (f) Gasoline and diesel dispensing activities consisting of one (1) five hundred (500) gallon gasoline tank and two (2) five hundred (500) gallon diesel tanks.

- (g) Natural gas fired space heaters with combined heat input less than ten (10) million Btu per hour (MMBtu/hr).
- (h) One (1) lead solder unit, identified as H2, with a maximum capacity of 20 pounds of lead per week, exhausting to stack H3.
- (i) Two (2) infrared bake ovens, identified as B4 and B5, with no potential to emit volatile organic compounds, exhausting to stacks B4 and B5.
- (j) Blade shaping operations, identified as H1, in which a cutting coolant continuously floods the machining interface, with no potential to emit, exhausting to H1.

The following conditions shall be applicable:

- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuos opacity monitor in a six (6) hour period. Pursuant to 326 IAC 5-1(Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:
- (b) Pursuant to 326 IAC 6-3-2(e) (Particulate Emission Limitations, Work Practices and Control Technologies), the rate of emissions from the welding operations, identified as B9, shall not exceed 0.551 pounds per hour of particulate matter.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.1-2(f)(3). The annual notice shall be submitted to:

Compliance Data Section Office of Air Quality 100 North Senate Avenue P.O. Box 6015 Indianapolis, IN 46206-6015 and Office of Environmental Services Air Quality Management Section, Compliance Data Group 2700 South Belmont Avenue Indianapolis, Indiana 46221-2097

no later than March 1 of each year, with the annual notice being submitted in the format attached.

Wood-Mizer Indianapolis, Indiana Permit Reviewer: Angelique Oliger Page 3 of 3 097-12613-00394

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original Signed by John B. Chavez John B. Chavez, Administrator

aco

cc: File, Marion County Air Compliance IDEM, Mindy Hahn Permits, Angelique Oliger

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3).

Company Name:	Wood-Mizer				
Address:	8180 West 10 th Street				
City:	Indianapolis, Indiana 46214				
Authorized individual: Scott Litmer					
Phone #:	(317) 271-1542				
Registration #:	097-12613-00394				

I hereby certify that Wood-Mizer is still in operation and is in compliance with the requirements of Registration 097-12613-00394.

Name (typed):	
Title:	
Signature:	
Date:	

Indiana Department of Environmental Management Office of Air Quality and City of Indianapolis Office of Environmental Services

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	Wood-Mizer
Source Location:	8180 West 10 th Street, Indianapolis, Indiana 46214
County:	Marion
SIC Code:	3553, 3567
Operation Permit No.:	097-12613-00394
Permit Reviewer:	Angelique Oliger

The Office of Environmental Services (OES) has reviewed an application from Wood-Mizer relating to woodworking operations.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) Welding operations, identified as B9, consisting of twelve (12) MIG weld stations each with a maximum capacity of 4.5 pounds per hour (lbs/hr), one (1) aluminum MIG weld station with a maximum capacity of 4.5 pounds per hour (lbs/hr), two (2) TIG weld stations each with a maximum capacity of 4.5 pounds per hour, three (3) oxyacetylene cutters each with a maximum capacity of 18 inches per minute, and one (1) portable arc welder, exhausting to stack B9.
- (b) Woodworking operations in the Customer Service Department, identified as B8, with a maximum capacity of 3,900 cubic feet per minute (cfm) of wood, using a baghouse and cyclone for particulate control, and vented internally.
- (c) Woodworking operations in the Wood Products Building, identified as F1, with a maximum capacity of 15,500 cubic feet per minute (cfm) of wood, using a baghouse and cyclone for particulate control, and vented internally.
- (d) Equipment testing activities, identified as B7, conducted in the Customer Service Department, with the capacity to operate five (5) 42 horse power (hp) diesel engines, and exhausting to stack B7.
- (e) Equipment testing activities, identified as H5, conducted in the Research and Development Department, with the capacity to operate three (3) 42 horse power (hp) diesel engines, exhausting to stack H5.
- (f) Gasoline and diesel dispensing activities consisting of one (1) five hundred (500) gallon gasoline tank and two (2) five hundred (500) gallon diesel tanks.

- (g) Natural gas fired space heaters with combined heat input less than ten (10) million Btu per hour (MMBtu/hr).
- (h) One (1) lead solder unit, identified as H2, with a maximum capacity of 20 pounds of lead per week, exhausting to stack H3.
- (i) Two (2) infrared bake ovens, identified as B4 and B5, with no potential to emit volatile organic compounds, exhausting to stacks B4 and B5.
- (j) Blade shaping operations, identified as H1, in which a cutting coolant continuously floods the machining interface, with no potential to emit, exhausting to H1.

Stack Summary

Stack ID	Operation	Height (feet)	Dimensions (feet)	Flow Rate (acfm)	Temperature (ºF)
B4	B4	0	1 x 1	NA	208
B5	B5	0	1 x 1	NA	208
B7	B7	20	0.5 x 1.0	1600	ambient
B9	B9	16.2	0.42 (diam)	NA	ambient
H1	H1	10	0.3 x 1.0	NA	ambient
H3	H2	8	1.3 x 1.3	NA	ambient
H5	H5	20	0.5 x 1.0	1600	ambient

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Administrator that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on September 9, 2996, with additional information received on August 17, 2000 and February 19, 2002.

Emission Calculations

See Appendix A (eight (8) pages) of this document for detailed emissions calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)				
PM	16.63				

PM-10	16.63
SO ₂	7.63
VOC	7.59
CO	3.81
NO _x	5.02
HAP's	Potential To Emit (tons/year)
Mn	0.15
Pb	1.66

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM is equal to or greater than five (5) tons per year and less than twenty-five (25) tons per year. The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is also equal to or greater than five (5) tons per year and less than twenty-five (25) tons per year. The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants is less than twenty-five (25) tons per year. Therefore, the source is registered and subject to the provisions of 326 IAC 2-5.1-2.
- (b) Fugitive Emissions Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

No previous emission data has been received from the source.

County Attainment Status

The source is located in Marion County.

Pollutant	Status				
PM-10	attainment				
SO ₂	maintenance attainment				
NO ₂	attainment				
Ozone	maintenance attainment				
CO	attainment				
Lead	unclassifiable				

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Marion County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and

volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

New Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	16.63
PM10	16.63
SO ₂	7.63
VOC	7.59
CO	3.81
NO _x	5.02
Single HAP	1.66
Combination HAPs	1.81

(a) This new source is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source. 40 CFR Part 63 Subpart JJ (National Emission Standards for Wood Furniture Manufacturing Operations) does not apply to this source because this is not a major source as defined in 40 CFR part 63, subpart A, §63.2.

State Rule Applicability - Entire Source

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source will emit less than ten (10) tons per year of a single HAP or twenty-five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Marion County, the potential to emit VOC and NO_x is less than ten (10) tons per year and its potential to emit PM is less than one-hundred (100) tons per year including fugitive emissions, therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1(Opacity Limitations)

The Opacity regulation 326 IAC 5-1 is generally applicable to all point sources of emissions. Since the source is located in Marion County, and is not located in the areas of Marion County referred to in 326 IAC 5-1-5, pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-1 (Non Attainment Area Limitations)

Since the source does not have the potential to emit greater than 100 tons per year of particulate matter, or actual emissions of greater than 10 tons per year of particulate matter, and it is not one of the sources listed in 326 IAC 6-1-12, 326 IAC 6-1 does not apply.

326 IAC 6-3-2 (Particulate Emission Limitations, Work Practices and Control Technologies) Pursuant to 326 IAC 6-3-2(e), the allowable particulate matter emissions rate from the welding operations, identified as B9, shall be controlled by the following equation:

> $E = 4.10 P^{0.67}$ where E = Rate of emission in pounds per hour;P = Process weight rate in tons per hour.

Pursuant to 326 IAC 6-3-2(e)(2), when the process weight is less than one hundred (100) pounds per hour, the allowable rate of emission is five hundred fifty-one thousandths (0.551) pound per hour. The welding operation, identified as B9, have a maximum process weight rate less than 100 pounds per hour. Therefore, the rate of emissions from B9 shall not exceed 0.551 pounds per hour of particulate matter.

Conclusion

This operation of woodworking shall be subject to the conditions of the attached proposed Registration 097-12613-00394.

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Appendix A: Emissions Calculations Welding and Thermal Cutting

Company Name: Wood-mizer Address City IN Zip: 8180 West 10th Street, Indianapolis, Indiana 46214 CP: 097-12613-00394 Reviewer: Angelique Oliger Date: April 30, 2003

PROCESS	Number of	Max. electrode		EN	AISSION F	ACTORS'	*		EMISSI	ONS		HAPS
	Stations consumption per (lb pollutant/lb electrode) (lbs/hr)			(lbs/hr)								
WELDING		station (lbs/hr)		PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Submerged Arc	0	0		0.036	0.011			0.000	0.000			0.000
Metal Inert Gas (MIG)(carbon steel)	13	4.5		0.0241	0.0005			1.410	0.029	0.000	-	0.029
Stick (E7018 electrode)	0	0		0.0211	0.0009			0.000	0.000	0.000	0	0.000
Tungsten Inert Gas (TIG)(carbon steel)	2	4.5		0.0055	0.0005			0.050	0.005	0.000	0	0.005
Oxyacetylene(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
	M	Mar Martal	M. M.G.	-					FMIOO	0110		HAPS
	Number of	Max. Metal	Max. Metal	EMISSION FACTORS EMISSIONS (lb pollutant/1,000 inches cut, 1" thick)** (lbs/hr)				-				
	Stations	Thickness	Cutting Rate				,		(lbs/l	· ·		(lbs/hr)
FLAME CUTTING		Cut (in.)	(in./minute)	PM = PM10	ivin	Ni	Cr	PM = PM10	MN	Ni	Cr	
Oxyacetylene	3	1	18	0.1622	0.0005	0.0001	0.0003	0.526	0.000	0.000	0.000	0.000
Oxymethane	0			0.0815	0.0002		0.0002	0.000	0.000	0.000	0.000	0.000
Plasma**	0			0.0039				0.000	0.000	0.000	0.000	0.000
EMISSION TOTALS												
Potential Emissions lbs/hr								1.98				0.03
Potential Emissions lbs/day								47.64				0.81
Potential Emissions tons/year								8.69				0.15

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials

reported for wet cutting of 8 mm thick

mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the

emission factor for plasma cutting is for 8

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

Welding and other flame cutting emission factors are from an internal training session document, "Welding and Flame Cutting". See Rebecca Mason if you need a copy.

Refer to AP-42, Chapter 12.19 for additional emission factors for welding.

welding.wk4 (11/99)

	Appendix A: Emissions Calculations Industrial Boilers (> 100 mmBtu/hr) #1 and #2 Fuel Oil					
	Equipment Testing A					
	CP: Reviewer:	Wood-Mizer 8180 West 10th Street 097-12613-00394 Angelique Oliger April 30, 2003				
3 engines @ 42 hp 5 engines @ 42 hp	Heat Input Capacity MMBtu/hr 0.8551	Potential Throughput kgals/year 53.50608	S = Weight % Sulfur 2			

		Pollutant						
	PM*	SO2	NOx	VOC	CO			
Emission Factor in lb/kgal	3.3	284	24.0	0.20	5.0			
		(142.0S)						
Potential Emission in tons/yr	0.088	7.598	0.642	0.005	0.134			

Methodology

3 engines * 42 hp / engine * (2545 Btu/hr) / 1 hp * (1 MMBtu/hr) / (1e6 Btu/hr) = 0.321 MMBtu/hr

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

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Appendix A: Emissions Calculations Industrial Boilers (> 100 mmBtu/hr) #1 and #2 Fuel Oil HAPs Emissions

Company Name: Wood-Mizer Address, City IN Zip: 8180 West 10th Street CP: 097-15460-00394 Reviewer: Angelique Oliger Date: April 30, 2003

HAPs - Metals

Emission Factor in lb/mmBtu	Arsenic	Beryllium	Cadmium	Chromium	Lead
	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	1.50E-05	1.12E-05	1.12E-05	1.12E-05	3.37E-05

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total
Potential Emission in tons/yr	1.12E-05	2.25E-05	1.12E-05	5.62E-05	1.84E-04

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

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Emissions Calculations Gasoline & Diesel Fuel Dispensing Operations

Company Name:	Wood-Mizer
Address, City IN Zip:	8180 West 10th Street
CP:	097-12613-00394
Reviewer:	Angelique Oliger
Date:	April 30, 2003

		Emission	
		Rate	Potential
	Throughput	(lb VOC /	Emission
Unit	(gallons/yr)	1000 gal)	(tons/year)
Gasoline	78000	11	0.429
Diesel Fuel	78000	11	0.429
Diesel Fuel	78000	11	0.429
Total			1.287

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Emissions Calculations Woodworking Activities

Company Name: Wood-Mizer Address, City IN Zip: 8180 West 10th Street CP: 097-12613-00394 Reviewer: Angelique Oliger Date: April 30, 2003

	Operating	Grain	Stack Gas		
Source	hours	Loading	Flow Rate	Emissions of PM	
baghouse	(hrs/yr)	(gr/dcf)	(dcfm)	(lbs/hr)	(tons/yr)
F1	8760	0.01	15,442	1.324	5.797
B8	8760	0.01	3,885	0.333	1.459
Total				1.657	7.256

Emissions Calculations Lead Soldering Operations

Company Name: Wood-Mizer Address, City IN Zip: 8180 West 10th Street CP: 097-12613-00394 Reviewer: Angelique Oliger Date: April 30, 2003

	Density	VOC	Potential Usage	Potential VOC emissions
Material	(lbs/gal)	content	(gal/wk)	(tons/yr)
Flux	7.54	67%	20	2.63
Thinner	6.63	100%	20	3.45
Total				6.07

				Potential
			Potential	HAPs
		Lead	Usage	Emissions
Material	Bar (lbs)	Content	(lbs/wk)	(tons/yr)
Lead	8	40%	20	1.66

Appendix A: Emission Calculations Natural Gas Combustion Only MM Btu/hr 0.3 - < 10

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Company Name: Wood-Mizer Address, City IN Zip: 8180 West 10th Street CP: 097-12613-00394 **Reviewer: Angelique Oliger** Date: April 30, 2003 Heat Input Capacity Potential Throughput MMBtu/hr MMCF/yr 10.0 87.6 Pollutant PM PM10 SO2 NOx VOC CO Emission Factor in Ib/MMCF 13.7 13.7 0.6 100.0 5.3 84.0

0.60

0.03

4.38

0.23

Methodology

Potential Emission in tons/yr

MMBtu = 1,000,000 Btu MMCF = 1,000,000 Cubic Feet of Gas Emission Factors for NOx: uncontrolled = 100, Low Nox Burner = 17, Flue gas recirculation = 36 Emission Factors for CO: uncontrolled = 21, Low NOx Burner = 27, Flue gas recirculation = ND Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-03-006-03 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (Ib/MMCF)/2,000 lb/ton

0.60

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3.68

Appendix A: Emission Calculations Page 8 of 8 TSD App A

Company Name: Wood-Mizer Address, City IN Zip: 8180 West 10th Street CP: 097-12613-00394 Reviewer: Angelique Oliger Date: April 30, 2003

SUMMARY OF CALCULATED POTENTIAL EMISSION RATES - BEFORE CONROLS

Emission						
Unit	PM	SO2	Nox	VOC	CO	HAPs
B9	8.69					0.15
B7 and H5	0.088	7.6	0.642	0.005	0.134	
Gasoline						
and Diesel						
Dispensing				1.287		
B8	1.459					
F1	5.797					
H2				6.07		1.66
Space						
Heaters	0.600	0.030	4.380	0.230	3.680	
Total	16.63	7.63	5.02	7.59	3.81	1.81
	PM	SO2	Nox	VOC	CO	HAPs