

April 19, 2001

John Stasko
TransCom USA
4830 Todd Drive
Fort Wayne, Indiana 46808

Re: Registered Construction and Operation Status,
003-13743-00294

Dear Mr. Stasko:

The application from TransCom USA received on January 2, 2001, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following truck tractor and truck body painting source, to be located at 4830 Todd Drive, Fort Wayne, Indiana 46808, is classified as registered:

- (a) Two (2) paint booths, identified as PB1 and PB2, each equipped with four (4) air atomization spray guns and dry filters for overspray control, identified at DF1 and DF2, for metal surface coating, exhausting through Stacks S1 and S2, PB1 installed in 1965 and PB2 installed in 1994, capacity: 0.75 truck bodies per hour, each.
- (b) One (1) sand blast surface cleaning operation, identified as ASB-1, equipped with a cyclone and fabric filter, exhausting back into the sand blast room, installed in 1994, capacity: 200 pounds of aluminum oxide media per hour, throughput capacity: 250 pounds of trailer parts per hour.
- (c) Two (2) air makeup natural gas heaters, identified as AMH-1 & 2, installed in 1965 and 1994, rated at 2.45 million British thermal units per hour, total.
- (d) One (1) natural gas-fired steam boiler, identified as B-1, replaced in 2000, rated at 1.0 million British thermal units per hour.
- (e) One (1) portable horizontal steel storage tank, installed in 1993, capacity of 250 gallons of waste paint.

The following conditions shall be applicable:

1. 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 continuous opacity monitor in a six (6) hour period.

2. Pursuant to 326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(c)), the particulate matter (PM) emissions from the natural gas-fired boiler, rated at 1.0 million British thermal units per hour boiler shall not exceed 0.6 pounds per million British thermal units.
3. Pursuant to 326 IAC 6-3-2 (Process Operations):
 - (a) The particulate matter (PM) overspray from the paint booths, identified as PB1 and PB2, shall be limited by the following equation in (c).
 - (b) The allowable PM emission rate from the sand blast surface cleaning operation, identified as ASB-1, shall not exceed 1.02 pounds per hour when operating at a process weight rate of 250 pounds per hour (0.125 tons per hour). The pounds per hour limitation was calculated with the following equation in (c).
 - (c) Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:
$$E = 4.10 P^{0.67}$$
 where, E = rate of emission in pounds per hour and
P = process weight rate in tons per hour
4. The cyclone and fabric filter for PM control shall be in operation and control emissions from the associated sand blast surface cleaning operation, identified as ASB-1, at all times that sand blasting is in operation.
5. In the event that bag failure has been observed:
 - (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency.
 - (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.
6. In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.
7. Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicators at paint booths PB1 and PB2 shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.
8. The dry filters for PM overspray control shall be in operation at all times when either paint booth PB1 and/or PB2 are in operation.

9. Any change or modification which may increase the potential to emit a combination of HAPs, VOC, PM or PM₁₀ to twenty five (25) tons per year or a single HAP to ten (10) tons per year from this source shall require approval from IDEM, OAQ prior to making the change.

This registration is a registration renewal 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**

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

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
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

FPC/MES

cc: File - Allen County
Allen County Health Department
Air Compliance - Jennifer Dorn
Permit Tracking - Janet Mobley
Air Programs Section- Michele Boner

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

Company Name:	TransCom USA
Address:	4830 Todd Drive
City:	Fort Wayne, Indiana 46808
Authorized individual:	John Stasko
Phone #:	219 - 422 - 7564
Registration #:	003-13743

I hereby certify that TransCom USA is still in operation and is in compliance with the requirements of Registration 003-13743-00294.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Renewal

Source Background and Description

Source Name:	TransCom USA
Source Location:	4830 Todd Drive, Fort Wayne, Indiana 46808
County:	Allen
SIC Code:	7699
Operation Permit No.:	R 003-13743-00294
Permit Reviewer:	Frank P. Castelli

The Office of Air Quality (OAQ) has reviewed a renewal application from TransCom USA relating to the operation of a stationary truck tractor and truck body painting source.

Permitted Emission Units and Pollution Control Equipment

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

- (a) Two (2) paint booths, identified as PB1 and PB2, each equipped with four (4) air atomization spray guns and dry filters for overspray control, identified at DF1 and DF2, for metal surface coating, exhausting through Stacks S1 and S2, PB1 installed in 1965 and PB2 installed in 1994, capacity: 0.75 truck bodies per hour, each.
- (b) One (1) sand blast surface cleaning operation, identified as ASB-1, equipped with a cyclone and fabric filter, exhausting back into the sand blast room, installed in 1994, capacity: 200 pounds of aluminum oxide media per hour, throughput capacity: 250 pounds of trailer parts per hour.
- (c) Two (2) air makeup natural gas heaters, identified as AMH-1 & 2, installed in 1965 and 1994, rated at 2.45 million British thermal units per hour, total.
- (d) One (1) natural gas-fired steam boiler, identified as B-1, replaced in 2000, rated at 1.0 million British thermal units per hour.
- (e) One (1) portable horizontal steel storage tank, installed in 1993, capacity of 250 gallons of waste paint.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment

There are no new facilities/units requiring approval during this review.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

CP 003-10276-00294, issued on December 23, 1998.

All conditions from previous approvals were incorporated into this permit.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
S1	Paint Booth PB1	30	3.0	24,500	68
S2	Paint Booth PB2	29	3.0	15,000	68

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner 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 January 2, 2001, with additional information received on February 26, 2001.

Emission Calculations

See pages 1 through 5 of 5 of Appendix A 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	10.6
PM ₁₀	10.7
SO ₂	0.009
VOC	18.4
CO	1.27
NO _x	1.51

HAPs	Potential To Emit (tons/year)
Worst Case Single HAP	8.24
Worse Case Combination HAP	8.55

(a) The potential to emit (as defined in 326 IAC 2-5.1-2) of VOC, PM and PM₁₀ are less than twenty-five (25) tons per year and greater than five (5) tons per year and/or ten (10) tons per year. Therefore, the source is 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.

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Paint Booths PB1 and PB2	0.075	0.075	0.00	18.4	0.00	0.00	8.52
Sand Blasting	0.030	0.030	0.00	0.00	0.00	0.00	0.00

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Natural Gas Combustion	0.029	0.115	0.009	0.083	1.27	1.51	0.029
Total Emissions	0.134	0.220	0.009	18.5	1.27	1.51	8.55

County Attainment Status

The source is located in Allen County.

Pollutant	Status
PM ₁₀	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR Part 52.21.
- (b) Allen County has been classified as attainment or unclassifiable for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (c) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR Part 52.21, 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

Existing Source PSD, Part 70 or FESOP 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	0.134
PM ₁₀	0.220
SO ₂	0.009
VOC	18.5
CO	1.27
NO _x	1.51

- (a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of two hundred-fifty (250) tons per year or more, and it is not in one of the 28 listed source categories.
- (b) These emissions were based on the existing registration and the current application for renewal.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

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

This status is based on all the air approvals issued to the source. This status has been verified by the OAQ inspector assigned to the source.

Federal Rule Applicability

- (a) The one (1) natural gas-fired steam boiler, identified as B-1, replaced in 2000, rated at 1.0 million British thermal units per hour. is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.0c), Subpart Dc, since the boiler is rated at less than ten (10) million British thermal units per hour..
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is located in Allen County and the potential to emit VOC is less than one hundred (100) tons per year, therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity)

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 forty percent (40%) 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 Part 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.

State Rule Applicability - Individual Facilities

326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(c))

The natural gas-fired boiler, rated at 1.0 million British thermal units per hour boiler is subject 326 IAC 6-2-4. Pursuant to 326 IAC 6-2-4, the particulate matter (PM) emissions shall be limited by the following equation:

$$Pt = 1.09/Q^{0.26}$$

where Pt = pounds of particulate matter per million British thermal units heat input, and
Q = total source maximum operating capacity (million British thermal units per hour)

$$Pt = 1.09/(1.0)^{0.26} = 1.09 \text{ pounds per million British thermal units}$$

For Q less than ten (10) million British thermal units per hour, Pt shall not exceed 0.6 pounds per million British thermal units.

As shown in the spreadsheet for the boiler combustion, the PM emissions from the boiler are 0.008 tons per year for the 1.0 million British thermal units per hour boiler. This is equivalent to 0.002 pounds per hour of particulate matter per 1.0 million British thermal units heat input or 0.002 pounds per million British thermal units. Therefore, this boiler complies with the rule.

326 IAC 6-3-2 (Process Operations)

- (a) Surface Coating

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the facility shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

The dry filters shall be in operation at all times paint booths, PB1 and/or PB2, are in operation, in order to comply with this limit.

(b) Sand blast

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from sand blasting shall not exceed 1.02 pounds per hour when operating at a process weight rate of 250 pounds per hour (0.125 tons per hour).

The a cyclone and fabric filter shall be in operation at all times the sand blasting process is in operation, in order to comply with this limit. The PM emissions from sand blast after controls are 0.007 pounds per hour which is less than the allowable PM emission rate of 1.02 pounds per hour. Therefore, this sand blast operation is in compliance with this rule.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicators at paint booths PB1 and PB2 shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the paint booths are in compliance with this requirement.

Conclusion

The construction and operation of this stationary truck tractor and truck body painting source shall be subject to the conditions of the attached proposed Registration 003-13743-00294.

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

**Company Name: TransCom USA
Address City IN Zip: 4830 Todd Drive, Fort Wayne, IN 46808
MSOP: 003-13743
Pit ID: 003-00294
Reviewer: Frank P. Castelli
Date: January 2, 2001**

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC (pounds per hour)	Potential VOC (pounds per day)	Potential VOC (tons per year)	Particulate Potential (tons/yr)	lbs VOC/gal solids	Transfer Efficiency
Paint Booths 1 and 2																
Centari 5000	10.26	33.14%	0.0%	33.1%	0.0%	54.13%	0.67000	0.750	3.40	3.40	1.71	41.01	7.48	7.55	6.28	50%
Cleanup Solvent Dupont 7175 S	6.64	99.83%	0.0%	99.8%	0.0%	0.00%	0.50000	0.750	6.63	6.63	2.49	59.66	10.89	0.00	N/A	100%

State Potential Emissions	Add worst case coating to all solvents	PM	Control Efficiency	99.00%												
			Uncontrolled		4.19	100.66	18.4	7.55								
			Controlled		4.19	100.66	18.4	0.075								

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
 Total = Worst Coating + Sum of all solvents used

**Appendix A: Emission Calculations
HAP Emission Calculations**

Company Name: TransCom USA
Address City IN Zip: 4830 Todd Drive, Fort Wayne, IN 46808
Registration: 003-13743
Plt ID: 003-00294
Reviewer: Frank P. Castelli
Date: January 2, 2001

Material	Density (lbs/gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Worst Case	Weight % Ethylbenzene	Weight % Toluene	Weight % Xylene				Worst Case Emissions (tons/yr)	Ethylbenzene (tons/yr)	Toluene (tons/yr)	Xylene (tons/yr)			
Centari 5000	10.26	0.67000	0.750	33.14%							7.48						
Cleanup Solvent Dupont 7175 S	6.64	0.50000	0.750		1.00%	1.50%	7.00%				0.00	0.109	0.164	0.763			

Worst Case Individual Total **7.48** (tons/yr)
Overall Total **8.52** (tons/yr)

METHODOLOGY

Note: MSDS submitted with the application was generic so worst case (all VOC is a single HAP) has been assumed for Centari 5000

HAPS emission rate (tons/yr) = Density (lbs/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emission Calculations
Baghouse Operations**

**Company Name: TransCom USA
Address City IN Zip: 4830 Todd Drive, Fort Wayne, IN 46808
Registration: 003-13743
Plt ID: 003-00294
Reviewer: Frank P. Castelli
Date: January 2, 2001**

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	Emission Rate before Controls (lb/hr)	Emission Rate before Controls (tons/yr)	Emission Rate after Controls (lb/hr)	Emission Rate after Controls (tons/yr)
SB-1	99.0%	0.001	800.0	0.686	3.00	0.007	0.030

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Allowable Rate of Emissions

Process Rate (lbs/hr)	Process Weight Rate (tons/hr)	Allowable Emissions (lbs/hr)
250	0.125	1.018

Methodology

Allowable Emissions = 4.10(Process Weight Rate)^{0.67}

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler**

**Company Name: TransCom USA
Address City IN Zip: 4830 Todd Drive, Fort Wayne, IN 46808
Registration: 003-13743
Pit ID: 003-00294
Reviewer: Frank P. Castelli
Date: January 2, 2001**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Two Air Makeup units, total 2.45 MMBtu/hr One Boiler at 1.00 MMBtu/hr
3.450	30.22	

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.029	0.115	0.009	1.51	0.083	1.27

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

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).

See page 5 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Small Industrial Boiler

HAPs Emissions

Company Name: TransCom USA

Address City IN Zip: 4830 Todd Drive, Fort Wayne, IN 46808

Registration: 003-13743

Pit ID: 003-00294

Reviewer: Frank P. Castelli

Date: January 2, 2001

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	3.173E-05	1.813E-05	1.133E-03	2.720E-02	5.138E-05

HAPs - Metals

Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total HAPs
Potential Emission in tons/yr	7.556E-06	1.662E-05	2.116E-05	5.742E-06	3.173E-05	0.029

Methodology is the same as page 2.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.