



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: July 15, 2005  
RE: TFS Rochester Operations / 049-18025-00023  
FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FN-REGIS.dot 1/10/05



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
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[www.IN.gov/idem](http://www.IN.gov/idem)

July 15, 2005

Mr. Bob Courtright  
TFS Rochester Operations  
4366 N. Old U.S. Hwy 31  
Rochester, IN 46975

Re: Revised Registration No.  
**049-18025-00023**

Dear Mr. Courtright:

The application from TFS Rochester Operations, received on August 4, 2003, has been reviewed. The applicant requested that the description of a parts washer, as included in Registration No. 049-13660-00023, be modified to include the solvent used (alkaline detergent) and that the stack number for this emission unit be corrected from Stack # 3 to Stack # 2. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following emission units, located at 4366 North Old U. S. Hwy 31, Rochester, IN 46975, are classified as registered:

- (a) Two (2) nut former machines with a maximum throughput of 1,630 gallons of oil per year per nut former, connecting to one (1) existing Trion electrostatic precipitator which controls oil mist and exhausts to a stack designated as #7.
- (b) One (1) nut former machine with a maximum throughput of 1,630 gallons of oil per year, connecting to one (1) existing Trion electrostatic precipitator which controls oil mist and exhausts to a stack designated as #8.
- (c) Two (2) natural gas-fired air make-up units, designated as AE-1 and AE-2, with a maximum heat input capacity of 5.661 mmBtu/hr each and exhaust to the atmosphere.
- (d) One (1) natural gas-fired air make-up unit, designated as AE-3, with a maximum heat input capacity of 2.733 mmBtu/hr and exhausts to the atmosphere.
- (e) One (1) alkaline parts washing system, with a maximum capacity of 9,000 pounds of low carbon steel per hour and consists of the following equipment:
  - (1) One (1) natural gas-fired parts washer heater, with a maximum heat input capacity of 6.0 mmBtu/hr and exhausts to a stack designated as Stack #4; and
  - (2) One (1) parts washer using an alkaline detergent and exhausts to a stack designated as Stack #2.
- (f) One (1) natural gas-fired heated alkaline pan washer, with a maximum heat input capacity of 0.8 mmBtu/hr and exhausts to a stack designated as Stack #48.
- (g) One (1) natural gas-fired wastewater evaporator, with a maximum heat input capacity of 0.75 mmBtu/hr and exhausts to a stack designated as Stack#28.

- (h) Three (3) natural gas-fired thermolyne furnaces, with a maximum heat input capacity of 0.4 mmBtu/hr each and exhausts to stacks designated as Stack #17, Stack #18 and Stack # 19.
- (i) One (1) natural gas-fired roof mounted heating and air condition unit, with a maximum heat input capacity of 0.1216 mmBtu/hr and exhausts to a stack designated as Stack #20.
- (j) Seven (7) natural gas-fed roof mounted heating and air conditioning units, with a maximum heat input capacity of 0.225 mmBtu/hr each and exhaust to stacks designated as Stack #21, Stack #22, Stack #24, Stack #28a, Stack # 29, Stack #30 and Stack #31.
- (k) Two (2) natural gas-fired roof mounted heating and air condition units, with a maximum heat input capacity of 0.08 mmBtu/hr each and exhaust to stacks designated as Stack #23 and Stack #26.
- (l) One (1) natural gas-fired roof mounted heating and air conditioning unit, with a maximum heat input capacity of 0.275 mmBtu/hr and exhausts to a stack designated as Stack # 25.
- (m) One (1) natural gas-fired roof mounted heating and air conditioning unit, with a maximum heat input capacity of 0.05 mmBtu/hr and exhausts to a stack designated as Stack # 27.
- (n) One (1) electric chip separator.
- (o) Fifteen (15) satellite cleaning stations with a maximum solvent usage rate of 4.27 pounds of solvent per hour and exhausts to the atmosphere.
- (p) One (1) cold header operation, with a maximum throughput of 445 pounds of low carbon stainless steel, brass or alloy steel per hour, with a maximum capacity of 6,000 gallons of lubricating oil per year, equipped with one (1) Trion electrostatic precipitator to control oil mist and exhausts to a stack designated as Stack #6.
- (q) Two (2) cold header operations, with a maximum throughput of 445 pounds of low carbon stainless steel, brass or alloy steel per hour per operation, with a maximum capacity of 6,000 gallons of lubricating oil per year per operation, equipped with one (1) Trion electrostatic precipitator to control oil mist and exhaust to stacks designated as Stack #7 and Stack #8.
- (r) One (1) threading operation, with a maximum throughput of 445 pounds of low carbon stainless steel, brass or alloy steel per hour.

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 (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 6-3-2 (Particulate Emission Limitations)

The potential PM emissions from Cold Headers # 1 and 2 are each less than 0.551 lb/hr. Therefore, these are exempt from the requirements of 326 IAC 6-3-2.

Particulate matter (PM) from the Cold Header #3 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 Electrostatic Precipitator shall be in operation at all times the Cold Header #3 is in operation, and the permittee shall operate the control device in accordance with the manufacturer's specifications.

(3) Pursuant to 326 IAC 8-3-5:

- (a) the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
- (1) equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) the solvent volatility is greater than two (2) kilopascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F);
    - (B) the solvent is agitated; or
    - (C) the solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) ) measured at thirty-eight (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F) then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three -tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) ) measured at thirty-eight (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F) or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celcius (48.9<sup>o</sup>C) (One hundred twenty degrees Fahrenheit (120<sup>o</sup>F):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such a sa refrigerated chiller or carbon adsoption. Such systems shall be submitted to the U. S. EPA as a SIP revision.
- (b) the owner or operator of a cold cleaner degreaser facility shall ensure that the operating requirements are met:

- (1) close the cover whenever articles are not being handled in the degreaser.
- (2) drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

This registration is a revised registration 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 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Data Section  
Office of Air Quality  
100 North Senate Avenue  
Indianapolis, IN 46204**

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

Nysa L. James, Section Chief  
Permits Branch  
Office of Air Quality

MDM

cc: File - Fulton County  
Fulton County Health Department  
Air Compliance – David North  
Northern Regional Office  
Permit Tracking  
Compliance Data Section

<b>Registration Annual Notification</b>
---

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

<b>Company Name:</b>	<b>TFSA Rochester Operations</b>
<b>Address:</b>	<b>4366 N. Old U.S. Hwy 31</b>
<b>City:</b>	<b>Rochester, IN 46975</b>
<b>Authorized individual:</b>	<b>Mr. Bob Courtright</b>
<b>Phone #:</b>	<b>574-223-9301</b>
<b>Registration #:</b>	<b>049-18025-00023</b>

I hereby certify that TFSA Rochester Operations is still in operation and is in compliance with the requirements of Registration **049-18025-00023**

<b>Name (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a Registration

**Source Background and Description**

<b>Source Name:</b>	<b>TFS Rochester Operations</b>
<b>Source Location:</b>	<b>4366 North US Highway 31, Rochester, IN 46975</b>
<b>County:</b>	<b>Fulton</b>
<b>SIC Code:</b>	<b>3452</b>
<b>Operation Permit No.:</b>	<b>049-18025-00023</b>
<b>Permit Reviewer:</b>	<b>Madhurima D. Moulik</b>

The Office of Air Quality (OAQ) has reviewed an application from TFSA Rochester Operations relating to the operation of a fabricated metal production operation.

**Emission Units and Pollution Control Equipment**

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

- (a) Two (2) nut former machines with a maximum throughput of 1,630 gallons of oil per year per nut former, connecting to one (1) existing Trion electrostatic precipitator which controls oil mist and exhausts to a stack designated as #7.
- (b) One (1) nut former machine with a maximum throughput of 1,630 gallons of oil per year, connecting to one (1) existing Trion electrostatic precipitator which controls oil mist and exhausts to a stack designated as #8.
- (c) Two (2) natural gas-fired air make-up units, designated as AE-1 and AE-2, with a maximum heat input capacity of 5.661 mmBtu/hr each and exhaust to the atmosphere.
- (d) One (1) natural gas-fired air make-up unit, designated as AE-3, with a maximum heat input capacity of 2.733 mmBtu/hr and exhausts to the atmosphere.
- (e) One (1) alkaline parts washing system, with a maximum capacity of 9,000 pounds of low carbon steel per hour and consists of the following equipment:
  - (1) One (1) natural gas-fired parts washer heater, with a maximum heat input capacity of 6.0 mmBtu/hr and exhausts to a stack designated as Stack #4; and
  - (2) One (1) parts washer using an alkaline detergent and exhausts to a stack designated as Stack #2.
- (f) One (1) natural gas-fired heated alkaline pan washer, with a maximum heat input capacity of 0.8 mmBtu/hr and exhausts to a stack designated as Stack #48.
- (g) One (1) natural gas-fired wastewater evaporator, with a maximum heat input capacity of 0.75 mmBtu/hr and exhausts to a stack designated as Stack#28.

- (h) Three (3) natural gas-fired thermolyne furnaces, with a maximum heat input capacity of 0.4 mmBtu/hr each and exhausts to stacks designated as Stack #17, Stack #18 and Stack # 19.
- (i) One (1) natural gas-fired roof mounted heating and air condition unit, with a maximum heat input capacity of 0.1216 mmBtu/hr and exhausts to a stack designated as Stack #20.
- (j) Seven (7) natural gas-fed roof mounted heating and air conditioning units, with a maximum heat input capacity of 0.225 mmBtu/hr each and exhaust to stacks designated as Stack #21, Stack #22, Stack #24, Stack #28a, Stack # 29, Stack #30 and Stack #31.
- (k) Two (2) natural gas-fired roof mounted heating and air condition units, with a maximum heat input capacity of 0.08 mmBtu/hr each and exhaust to stacks designated as Stack #23 and Stack #26.
- (l) One (1) natural gas-fired roof mounted heating and air conditioning unit, with a maximum heat input capacity of 0.275 mmBtu/hr and exhausts to a stack designated as Stack # 25.
- (m) One (1) natural gas-fired roof mounted heating and air conditioning unit, with a maximum heat input capacity of 0.05 mmBtu/hr and exhausts to a stack designated as Stack # 27.
- (n) One (1) electric chip separator.
- (o) Fifteen (15) satellite cleaning stations with a maximum solvent usage rate of 4.27 pounds of solvent per hour and exhausts to the atmosphere.
- (p) One (1) cold header operation (Cold Header # 1), with a maximum throughput of 445 pounds of low carbon stainless steel, brass or alloy steel per hour, with a maximum capacity of 6,000 gallons of lubricating oil per year, equipped with one (1) Trion electrostatic precipitator to control oil mist and exhausts to a stack designated as Stack #6.
- (q) Two (2) cold header operations (Cold Headers # 2 and # 3), with a maximum throughput of 445 pounds of low carbon stainless steel, brass or alloy steel per hour per operation, with a maximum capacity of 6,000 gallons of lubricating oil per year per operation, equipped with one (1) Trion electrostatic precipitator to control oil mist and exhaust to stacks designated as Stack #7 and Stack #8.
- (r) One (1) threading operation, with a maximum throughput of 445 pounds of low carbon stainless steel, brass or alloy steel per hour.

### **Unpermitted Emission Units and Pollution Control Equipment**

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

### **Existing Approvals**

The source has been operating under previous approvals including, but no limited to, the following:

- (a) Registration No.: 049-13660-00023, issued on February 13, 2001.

All conditions from previous approvals were incorporated into this permit.

### **Enforcement Issue**

There are no enforcement actions pending.

### Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
2	Parts washer	25.0	1.00	435	1000
4	Alkaline parts washer	25.0	1.60	5000	1000
6, 7, 8	Cold header and nut forming machines	31.0	4.00	20,000	140
17, 18, 19	Thermolyne furnaces	22.0	0.6	66.0	1000
20-27	Roof mounted heating and A/C	25.0	0.5	0.4	180
28	Wastewater evaporator	25.0	0.6	2000	1000
28a and 29	Roof mounted heating and A/C	25.0	0.5	0.4	140
30 and 31	Roof mounted heating and A/C	25.0	0.5	N/A	N/A
48	Alkaline pan washer	25.0	0.8	1500	200

### 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 August 4, 2003, with additional information received on May 3, 2005.

### Emission Calculations

See Appendix A of this document for detailed emission calculations for combustion sources.

The emissions from non-combustion sources are based on emissions calculations provided by source and have been verified and found to be accurate. These calculations are provided in Appendix B of this document (3 pages). The summary of the data submitted is listed below:

Emissions from Cold Header #1: PM = 1.19 tons per year (0.27 pound per hour)  
 Emissions from Cold Header #2: PM = 0.35 tons per year (0.08 pound per hour)  
 Emissions from Cold Header #3: PM = 2.78 tons per year (0.63 pound per hour)

VOC emissions from the cleaning stations: 11.36 tons per year

### Potential to Emit (of the Source or Revision) Before Controls

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/yr)
PM	5.12
PM-10	5.12
SO <sub>2</sub>	0.1
VOC	1.34
CO	9.2
NO <sub>x</sub>	11.0

HAPs	Potential to Emit (tons/yr)
Single HAP	<10
Total	<25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of NO<sub>x</sub> is less than 25 tons per year but greater than 10 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-5.5. A registration will be issued.

**County Attainment Status**

The source is located in Fulton County.

Pollutant	Status
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (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. Fulton 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. See the State Rule Applicability for the source section.
- (b) Fulton County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

**Part 70 Permit Determination**

326 IAC 2-7 (Part 70 Permit Program)

This existing 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 per year.

### **Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this registration.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this registration.

### **State Rule Applicability – Entire Source**

#### 326 IAC 2-2 (Prevention of Significant Deterioration)

This source does not have potential to emit of any pollutants greater than 250 tons per year, and is not one of the twenty eight (28) listed source categories. Therefore, 326 IAC 2-2 does not apply.

#### 326 IAC 2-6 (Emission Reporting)

This source is located in Fulton County and the potential to emit of all pollutants are less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

#### 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (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 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.

### **State Rule Applicability – Individual Facilities**

#### 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements)

All emission units at this source that are not subject to other Article 8 rules have potential VOC emissions of less than 25 tons per year. Therefore, 326 IAC 8-1-6 does not apply.

#### 326 IAC 6-3-2 (Particulate Emission Limitations)

The potential PM emissions from Cold Headers # 1 and 2 are each less than 0.551 lb/hr. Therefore, these are exempt from the requirements of 326 IAC 6-3-2.

Particulate matter (PM) from the Cold Header #3 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 Electrostatic Precipitator shall be in operation at all times the Cold Header #3 is in operation, and the permittee shall operate the control device in accordance with the manufacturer's specifications.

#### 326 IAC 8-3-2 (Cold Cleaner Operation)

The cold cleaner degreaser units at this facility, located in Fulton County, constructed after 1980 and performing organic solvent degreasing, are subject to 326 IAC 8-3-2 and 326 IAC 8-3-5. Compliance with the requirements of 326 IAC 8-3-5 (included below) demonstrates compliance with 326 IAC 8-3-2.

#### 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The cold cleaner degreaser units at this facility, located in Fulton County, constructed after July 1, 1990, are cold cleaner degreasers without remote solvent reservoirs.

Pursuant to 326 IAC 8-3-5:

(a) the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) the solvent volatility is greater than two (2) kilopascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F));
  - (B) the solvent is agitated; or
  - (C) the solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch ) measured at thirty-eight (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F) then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three -tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch ) measured at thirty-eight (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F) or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celcius (48.9<sup>o</sup>C) (One hundred twenty degrees Fahrenheit (120<sup>o</sup>F):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such a sa refrigerated chiller or carbon adsoption. Such systems shall be submitted to the U. S. EPA as a SIP revision.

(b) the owner or operator of a cold cleaner degreaser facility shall ensure that the operating requirements are met:

- (1) close the cover whenever articles are not being handled in the degreaser.
- (2) drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

### **Conclusion**

This fabricated metal production operation shall be subject to the conditions of the Registration No. 049-18025-00023.

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

**Company Name:** TFS Rochester Operations  
**Address City IN Zip:** 4366 N. Old U.S. Hwy 31, Rochester, IN 46975  
**Permit Number:** 049-18025  
**Pit ID:** 049-00023  
**Reviewer:** Madhurima D. Moulik  
**Date:** 24th June, 2005

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

25.0

219.0

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	7.6	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.8	0.8	0.1	11.0	0.6	9.2

\*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

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See page 2 for HAPs emissions calculations.

updated 4/99

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

**Company Name:** TFS Rochester Operations  
**Address City IN Zip:** 4366 N. Old U.S. Hwy 31, Rochester, IN 46975  
**Permit Number:** 049-18025  
**Pit ID:** 049-00023  
**Reviewer:** Madhurima D. Moulik  
**Date:** 24th June, 2005

	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	2.300E-04	1.314E-04	8.213E-03	1.971E-01	3.723E-04

	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
Potential Emission in tons/yr	5.475E-05	1.205E-04	1.533E-04	4.161E-05	2.300E-04

Methodology is the same as page 1.

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