



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: October 16, 2007
RE: MPI Indiana Fineblanking / 149-25233-00025
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

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 from 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
FNPER-AM.dot 03/23/06



Mitchell E. Daniels, Jr
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Indianapolis, Indiana 46204-2251
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October 16, 2007

Ms. Paula Kinder
MPI Indiana Fineblanking
1200 Klockner Drive
Knox IN, 46534

Re: Registration Notice-Only Change
No. 149-25233-00025

Dear Paula Kinder:

MPI Indiana Fineblanking was issued Registration No. R149-24766-00025 on June 29, 2007 for a stationary metal components fineblanking facility located at 1200 Klockner Drive, Knox IN, 46534. A letter notifying the Office of Air Quality of a notice-only change to the registration was received on August 31, 2007. The source plans to add one (1) new GMPT Cell, consisting of two (2) new fineblank presses, two (2) new belt sanders, and a natural gas-fired Cincinnati washer; three (3) new fineblank presses; and one (1) new IMATEC wet grinder. Using the Environmental Protection Agency's (EPA) TANKS Version 4.09d program, it was determined that use and storage of Perkool 694MPI, Perkool 765LS and Perkleen 1398 at this source would have negligible potential emissions of volatile organic compounds (VOCs), (i.e., less than the threshold levels specified in 326 IAC 2-5.5-6(d)(10) and 326 IAC 2-5.5-6(d)(12), respectively). The source also, plans to take one (1) existing fineblank press, Line 5 - # 1217, out of service and remove it from the property, and has requested administrative changes to allow for a more accurate description of the source and its facilities. The addition of the GMPT Cell, fineblanking presses, and IMATEC wet grinder, the removal of fineblanking press 1217, and the administrative changes are considered a notice-only change pursuant to 326 IAC 2-5.5-6(d). This source is not a major PSD stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 source categories listed in 326 IAC 2-2-1(gg)(1). There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this notice-only change.

In addition, IDEM updated the emission calculations in order to clarify the source's potential to emit before and after controls. Finally, IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (AI) in permits. These changes are considered notice-only changes pursuant to 326 IAC 2-5.5-6. Pursuant to 326 IAC 2-5.5-6, the registration is hereby revised as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

- ... (a) Two (2) fineblank presses, identified as ~~1227 Line 13~~ and ~~1228 Line 14~~, constructed in 2004, with a total maximum capacity of 1,288 pounds per hour.
- ... (e) **Eleven** ~~Twelve (1142)~~ fineblank presses, identified as **1208, 1209, 1215, 1216, 1221, 1223, 1225, 1226, 12101, 12151, 12153**, ~~Line 1 through Line 12~~, all constructed in 2003, with a maximum processing capacity of 30,000 pounds per hour of steel.
- ... (n) Two (2) fineblank presses, identified as ~~1228 Line 15~~ and ~~12156 Line 16~~, constructed in 2006, with a total maximum capacity of 1,288 pounds per hour.
- ... (x) One (1) finishing line, identified as 13997, approved for construction in 2007, with a maximum capacity of 428 pounds per hour fineblanked components.

- (1) Two (2) fineblank presses, identified as ~~718 Line 17~~ and ~~12100 Line 18~~, approved for construction in 2007, with a total maximum capacity of 2,040 pounds per hour.
- ...
- (bb) **Two (2) fineblank presses, identified as 151 and 163, approved for construction in 2007, with a total maximum capacity of 3,776 pounds per hour.**
- (cc) **One (1) GMPT Cell, identified as GMPT, approved for construction in 2007, with a maximum capacity of 1,585 pounds per hour fineblanked components, consisting of:**
- (1) **Two (2) fineblank presses, identified as 164 and 165, approved for construction in 2007, with a total maximum capacity of 3,776 pounds per hour.**
- (2) **Two (2) belt sanders, approved for construction in 2007, each with a capacity of processing 5190 pounds per hour of fineblanked products.**
- (3) **One (1) natural gas-fired Cincinnati washer, identified as S-23, approved for construction in 2007, with a total maximum heat input capacity of 0.80 mmBtu/hr, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.**
- (dd) **One (1) IMATEC Wet Grinder for wet grinding of fineblanked products, identified as IMATE, approved for construction in 2007, with a maximum throughput of 191 pounds per hour of fineblanked products, using no controls, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.**
- (ee) **One (1) fineblank press, identified as 161, approved for construction in 2007, with a total maximum capacity of 1,017 pounds per hour.**

...

The State rule applicability for the source has been updated as follows, with deleted language appearing as ~~strikethroughs~~ and new language appearing in **bold**:

State Rule Applicability – Entire Source

~~326 IAC 8-6 (Organic Solvent Emission Limitations)~~

~~The source is not subject to 326 IAC 8-6 (Organic Solvent Emission Limitations) because it was constructed after January 1, 1980, and the potential to emit of VOC is less than 100 tons per year.~~

State Rule Applicability – Individual Facilities

~~326 IAC 8-1-6 (VOC rules: General Reduction Requirements for New Facilities General Reduction Requirements for VOC Emissions)~~

The requirements of 326 IAC 8-1-6 are not applicable to the Perkool 694MPI, Perkool 765LS and Perkleen 1398 product usage, since the ~~The~~ emission units at this source were constructed or modified after January 1, 1980 and have a potential to emit VOC less than twenty-five (25) tons per year. ~~Therefore, the requirements of 326 IAC 8-1-6 do not apply.~~

~~326 IAC 8-3-2 and 326 IAC 8-3-5 (Cold Cleaner Operations)~~

~~The parts washers (SMT washer (13181), the eight (8) Cincinnati washers (#13091, #1309, #13191, #13192, #13194, #13195, #13198, #13199), Line 1399 Cincinnati washer, Line 13994 electric washer, Line 13996 Midbrook washer, and the Finishing Line Washer 13997 use aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs. Therefore, the requirements of 326 IAC 8-3-2 and 326 IAC 8-3-5 do not apply.~~

326 IAC 8-3 (Organic Solvent Degreasing Operations)

Pursuant to 326 IAC 8-3-1 (Organic Solvent Degreasing Operations), the natural gas-fired, SMT washer (13181), the natural gas-fired, Cincinnati washers (13091, 1309, 13191, 13192, 13194, 13195, 13198, 13199, 1399, and S-23), 250 gallon electric washer (13994), and the Midbrook washer (13996) are each subject to the requirements of 326 IAC 8-3-2 (Cold Cleaner Operations) and 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control), since it meets the definition of a cold cleaner degreaser under 326 IAC 1-2-18.5, utilizing an organic solvent containing volatile organic compounds (VOCs) (as defined by 326 IAC 1-2-90), was constructed after the July 1, 1990, and does not have a remove solvent reservoir.

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

Pursuant to 326 IAC 8-3-2, the owner or operator shall:

- (a) equip the cleaner with a cover;
- (b) equip the cleaner with a facility for draining cleaned parts;
- (c) close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) provide a permanent, conspicuous label summarizing the operating requirements;
- (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

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

Pursuant to 326 IAC 8-3-5, the owner or operator shall:

- (a) 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 degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°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 degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°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 326 IAC 8-3-5(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 degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
- (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) ensure that the following 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.

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Hannah Desrosiers, at (800) 451-6027, press 0 and ask for Hannah Desrosiers or extension 4-5374 or dial (317) 234-5374.

Sincerely,

Original document signed by

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

NS/hld

Attachment: Revised Registration

cc: File - Starke County
Starke County Health Department
Air Compliance Section - Adrienne Mishler
IDEM - Northern Regional Office
Permit Tracking
Compliance Data Section
Permits Administrative and Development
Billing, Licensing and Training Section – Dan Stamatkin
US EPA Region 5



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
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October 16, 2007

Ms. Paula Kinder
MPI Indiana Fineblanking
1200 Klockner Drive
Knox Indiana 46534

Re: Notice-Only Change No. R149-25233-00025
Registered Construction and Operating Status

Dear Paula Kinder:

MPI Indiana Fineblanking was issued Registration No. R149-24766-00025 on June 29, 2007 for a stationary metal components fineblanking facility located at 1200 Klockner Drive, Knox IN, 46534. A letter notifying the Office of Air Quality of a notice-only change to the registration was received on August 31, 2007. The source plans to add one (1) new GMPT Cell, consisting of two (2) new fineblank presses, two (2) new belt sanders, and a natural gas-fired Cincinnati washer; three (3) new fineblank presses; and one (1) new IMATEC wet grinder. Using the Environmental Protection Agency's (EPA) TANKS Version 4.09d program, it was determined that use and storage of Perkool 694MPI, Perkool 765LS and Perkleen 1398 at this source would have negligible potential emissions of volatile organic compounds (VOCs), (i.e., less than the threshold levels specified in 326 IAC 2-5.5-6(d)(10) and 326 IAC 2-5.5-6(d)(12), respectively). The source also, plans to take one (1) existing fineblank press, Line 5 - # 1217, out of service and remove it from the property, and has requested administrative changes to allow for a more accurate description of the source and its facilities. The addition of the GMPT Cell, fineblanking presses, and IMATEC wet grinder, the removal of fineblanking press 1217, and the administrative changes are considered a notice-only change pursuant to 326 IAC 2-5.5-6(d). This source is not a major PSD stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 source categories listed in 326 IAC 2-2-1(gg)(1). There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this notice-only change.

Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following stationary metal components fineblanking facility located at 1200 Klockner Drive, Knox IN, 46534, is classified as registered:

- (a) Two (2) fineblank presses, identified as 1227 and 1228, constructed in 2004, with a total maximum capacity of 1,288 pounds per hour.
- (b) One (1) finishing line, identified as 13995, constructed in 2004, with a maximum capacity of 348 pounds per hour fineblanked components.
- (c) One (1) natural gas-fired SMT washer, identified as 13181, constructed in 2004, with a heat input capacity of 0.90 million British thermal units per hour (mmBtu/hr), with 250 gallon capacity, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.

- (d) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, consisting of:
- (1) Eight (8) natural gas-fired Cincinnati washers, identified as #13091 (1.5 mmBtu/hr), #1309 (1.9 mmBtu/hr), #13191 (1.9 mmBtu/hr), #13192 (0.8 mmBtu/hr), #13194 (2.0 mmBtu/hr), #13195 (0.9 mmBtu/hr), #13198 (2.0 mmBtu/hr), #13199 (2.9 mmBtu/hr), all constructed in 2003, with a total maximum heat input capacity of 13.9 mmBtu/hr, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
 - (2) One (1) natural gas-fired space heater, constructed in 2003, with a maximum heat input capacity of 1.565 mmBtu/hr.
 - (3) One (1) natural gas-fired dryer, constructed in 2003, with a maximum heat input capacity of 1.0 mmBtu/hr.
 - (4) Three (3) natural gas-fired ovens for heat treatment, identified as #14260 (2.9 mmBtu/hr), #14261 (0.5 mmBtu/hr), and #14262 (0.5 mmBtu/hr), all constructed in 2003.
 - (5) One (1) natural gas-fired Lakeview E-600 wastewater evaporator, constructed in 2003, with a maximum heat input capacity of 0.86 mmBtu/hr, processing 869 pounds of wastewater per hour.
 - (6) One (1) air make-up system, identified as #12901, constructed in 2003, with a maximum heat input capacity of 4.4 mmBtu/hr.
- (e) Eleven (11) fineblank presses, identified as 1208, 1209, 1215, 1216, 1221, 1223, 1225, 1226, 12101, 12151, 12153, all constructed in 2003, with a maximum processing capacity of 30,000 pounds per hour of steel.
- (f) Two (2) finishing lines, identified as 1399 and 13994, both constructed in 2003, including the following emission units and pollution control equipment:
- (1) Line 1399: One (1) 225 gallon Cincinnati washer (included in combustion units), using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
 - (2) Line 13994: equipped with one (1) belt sander with a capacity of 1038 pounds per hour of fineblanked products and one (1) 250 gallon electric washer, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (g) Two (2) belt sanders, both constructed in 2003, each with a capacity of processing 5190 pounds per hour of fineblanked products.
- (h) One (1) DDG process line for wet grinding of fineblanked products, constructed in 2003, with a processing capacity of 600 pounds per hour, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (i) One (1) process line identified as 2812 cell, with a DD rough (wet) grinding system, TRT and lathes, constructed in 2003, equipped with a Dust Hog baghouse, processing 600 pounds per hour of fineblanked components.

- (j) Two (2) above ground vertical storage tanks for storing used oil, constructed in 2003, each with a storage capacity of 2000 gallons, with an annual throughput of 12,500 gal/yr (each).
- (k) One (1) Metal Inert Gas (MIG) robotic welding operation, identified as 1, constructed in 2003, consisting of two stations.
- (l) Three (3) finishing lines, identified as 13991, 13992, and 13993, all constructed in 2003, processing a total of 900 pounds per hour of fineblanked products, consisting of:
 - (1) Line 13991, equipped with a wet belt sander, with a capacity of 1038 pounds per hour of fineblanked products, using no particulate controls, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
 - (2) Line 13992, equipped with a wet belt sander, with a capacity of 1038 pounds per hour of fineblanked products, using no particulate controls, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
 - (3) Line 13993, equipped with a wet belt sander, with a capacity of 1038 pounds per hour of fineblanked products, using no particulate controls, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (m) One (1) process line identified as FCC (formerly identified as Jaytec), with TRT and lathes, constructed in 2003, equipped with a Dust Hog baghouse, processing 750 pounds per hour of fineblanked components.
- (n) Two (2) fineblank presses, identified as 1228 and 12156, constructed in 2006, with a total maximum capacity of 1,288 pounds per hour.
- (o) One (1) finishing line, identified as 13996, constructed in 2006, processing a total of 348 pounds per hour of fineblanked products, equipped with one (1) belt sander with a capacity of 348 pounds per hour of fineblanked products, using no controls and exhausting inside the building.
- (p) One (1) natural gas-fired Midbrook washer, used with line 13996, constructed in 2006, with a maximum heat input capacity of 0.80 MMBtu per hour, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs, and exhausting at stack S-17.
- (q) One (1) Speed FAM Wet Grinder for wet grinding of fineblanked products, identified as 13400, constructed in 2006, with a maximum throughput of 343 pounds per hour of fineblanked products, using no controls, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (r) One (1) Metal Inert Gas (MIG) robotic welding operation, identified as 2, constructed in 2003, consisting of two stations.
- (s) One (1) above ground storage tank for storing hydraulic oil, constructed in 2006, each with a storage capacity of 2,400 gallons, with an annual throughput of 12,000 gal/yr.
- (t) The following VOC and HAP storage containers: storing lubricating oils, hydraulic oils, machining oils, or machining fluids.

- (u) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (v) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment.
- (w) Paved and unpaved roads and parking lots with public access.
- (x) One (1) finishing line, identified as 13997, approved for construction in 2007, with a maximum capacity of 428 pounds per hour fineblanked components.
 - (1) Two (2) fineblank presses, identified as 718 and 12100, approved for construction in 2007, with a total maximum capacity of 2,040 pounds per hour.
 - (2) One (1) dampner plate line, identified as DPL 1, approved for construction in 2007, with a maximum capacity of 1,850 pounds per hour.
 - (3) One (1) oil dam machining cell, identified as ODML1, approved for construction in 2007, with a maximum capacity of 1,850 pounds per hour.
- (y) One (1) valve body line, identified as 13220, approved for construction in 2007, with a maximum capacity of 2,150 pounds per hour.
- (z) One (1) natural gas-fired oven for heat treatment, identified as #14263 (0.5 mmBtu/hr), approved for construction in 2007.
- (aa) Two (2) fineblank presses, identified as 723 and 1204, approved for construction in 2007, with a total maximum capacity of 1,072 pounds per hour.
- (bb) Two (2) fineblank presses, identified as 151 and 163, approved for construction in 2007, with a total maximum capacity of 3,776 pounds per hour.
- (cc) One (1) GMPT Cell, identified as GMPT, approved for construction in 2007, with a maximum capacity of 1,585 pounds per hour fineblanked components, consisting of:
 - (1) Two (2) fineblank presses, identified as 164 and 165, approved for construction in 2007, with a total maximum capacity of 3,776 pounds per hour.
 - (2) Two (2) wet belt sanders, approved for construction in 2007, each with a capacity of processing 5190 pounds per hour of fineblanked products, uncontrolled and using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
 - (3) One (1) natural gas-fired Cincinnati washer, identified as S-23, approved for construction in 2007, with a total maximum heat input capacity of 0.80 mmBtu/hr, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (dd) One (1) IMATEC Wet Grinder for wet grinding of fineblanked products, identified as IMATE, approved for construction in 2007, with a maximum throughput of 191 pounds per hour of fineblanked products, using no controls, using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (ee) One (1) fineblank press, identified as 161, approved for construction in 2007, with a total maximum capacity of 1,017 pounds per hour, producing unfinished product.

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 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.

2. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for each of the natural gas-fired, SMT washer (13181), the natural gas-fired, Cincinnati washers (13091,1309, 13191, 13192, 13194, 13195, 13198, 13199, 1399,and S-23), 250 gallon electric washer (13994), and the Midbrook washer (13996), the owner or operator shall:
 - (a) equip the cleaner with a cover;
 - (b) equip the cleaner with a facility for draining cleaned parts;
 - (c) close the degreaser cover whenever parts are not being handled in the cleaner;
 - (d) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (e) provide a permanent, conspicuous label summarizing the operating requirements;
 - (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

3. Pursuant to 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control), for each of the natural gas-fired, SMT washer (13181), the natural gas-fired, Cincinnati washers (13091,1309, 13191, 13192, 13194, 13195, 13198, 13199, 1399,and S-23), 250 gallon electric washer (13994), and the Midbrook washer (13996), the owner or operator shall:
 - (a) 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 degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°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 degrees Celsius (38°C) (one

hundred degrees Fahrenheit (100°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 326 IAC 8-3-5(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 degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) ensure that the following 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.

4. Any change or modification which may increase the potential to emit a single HAP to 10 tons per year or more, or VOCs or combination HAPs to 25 tons per year or more shall require prior approval of IDEM, OAQ.

The source remains a registered 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
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251**

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 document signed by

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

NS/hld

cc: File - Starke County
Starke County Health Department
Air Compliance Section - Adrienne Mishler
IDEM - Northern Regional Office
Permit Tracking
Compliance Data Section
Permits Administrative and Development
Billing, Licensing and Training Section – Dan Stamatkin
US EPA Region 5

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: | MPI Indiana Fineblanking |
| Address: | 1200 Kloeckner Drive |
| City: | Knox, Indiana 46534 |
| Phone #: | (574) 772-3850 |
| Registration #: | R149-25233-00025 |

Certification by the Authorized Individual

I hereby certify that MPI Indiana Fineblanking is still in operation and is in compliance with the requirements of Registration 149-25233-00025.

Name (typed):

Title:

Signature:

Phone Number:

Date:

Appendix A: Emissions Calculations Entire Source Emission Summary

Company Name: MPI Indiana Fineblanking
Address City IN Zip: 1200 Klockner Drive, Knox, IN 46534
Registration No.: 149-22957-00025
Registration Revision No.: 149-25233-00025
Reviewer: Hannah L. Desrosiers
Date: October 5, 2007

| Uncontrolled Potential Emissions (tons/year) | | | | | | | | | |
|---|-----------------|-------------------------|-----------------|---------------------|---------------|---------------------|-------------|-------------|-------------|
| Emissions Generating Activity | | | | | | | | | |
| Category | Pollutant | Existing Emission Units | | | | New Emission Units | | | TOTAL |
| | | Machining | Welding | Natural Gas Combust | Unpaved Roads | Natural Gas Combust | De-ruster | Coolant | |
| Criteria Pollutants | PM | 1.97 | 2.11 | 0.23 | 0.93 | 0.01 | Negligible | Negligible | 5.25 |
| | PM10 | 1.97 | 2.11 | 0.91 | 0.24 | 0.03 | Negligible | Negligible | 5.25 |
| | SO2 | 0 | 0 | 0.07 | 0 | 2.10E-03 | 0 | 0 | 0.07 |
| | NOx | 0 | 0 | 11.94 | 0 | 0.35 | 0 | 0 | 12.29 |
| | VOC | 0 | 0 | 0.66 | 0 | 0.02 | Negligible | Negligible | 0.68 |
| | CO | 0 | 0 | 10.03 | 0 | 0.29 | 0 | 0 | 10.32 |
| Hazardous Air Pollutants | Benzene | 0 | 0 | 2.51E-04 | 0 | 7.36E-06 | 0 | 0 | 2.58E-04 |
| | Dichlorobenzene | 0 | 0 | 1.43E-04 | 0 | 4.20E-06 | 0 | 0 | 1.47E-04 |
| | Formaldehyde | 0 | 0 | 8.95E-03 | 0 | 2.63E-04 | 0 | 0 | 9.22E-03 |
| | Hexane | 0 | 0 | 0.21 | 0 | 6.31E-03 | 0 | 0 | 0.22 |
| | Toluene | 0 | 0 | 4.06E-04 | 0 | 1.19E-05 | 0 | 0 | 4.2E-04 |
| | Cadmium | 0 | 0 | 1.31E-04 | 0 | 3.85E-06 | 0 | 0 | 1.4E-04 |
| | Chromium | 0.02 | 8.76E-04 | 1.67E-04 | 0 | 4.91E-06 | 0 | 0 | 1.0E-03 |
| | Lead | 0 | 0 | 5.97E-05 | 0 | 1.75E-06 | 0 | 0 | 6.14E-05 |
| | Manganese | 0.03 | 0.00 | 4.54E-05 | 0 | 1.33E-06 | 0 | 0 | 0.04 |
| | Nickel | 0.01 | NA | 2.51E-04 | 0 | 7.36E-06 | 0 | 0 | 9.1E-03 |
| Totals | | 0.06 | 3.85E-03 | 0.23 | 0 | 0.01 | 0.00 | 0.00 | 0.29 |
| Worse Case HAP | | | | | | | | | 0.22 |

Total emissions based on rated capacity at 8,760 hours/year.

| Controlled Potential Emissions (tons/year) | | | | | | | | | |
|---|-----------------|-------------------------|-------------|---------------------|---------------|---------------------|-------------|-------------|-------------|
| Emissions Generating Activity | | | | | | | | | |
| Category | Pollutant | Existing Emission Units | | | | New Emission Units | | | TOTAL |
| | | Machining | Welding | Natural Gas Combust | Unpaved Roads | Natural Gas Combust | De-ruster | Coolant | |
| Criteria Pollutants | PM | 1.97 | 2.11 | 0.23 | 0.93 | 0.01 | Negligible | Negligible | 5.25 |
| | PM10 | 1.97 | 2.11 | 0.91 | 0.24 | 0.03 | Negligible | Negligible | 5.25 |
| | SO2 | 0 | 0 | 0.07 | 0 | 2.10E-03 | 0 | 0 | 7.4E-02 |
| | NOx | 0 | 0 | 11.94 | 0 | 0.35 | 0 | 0 | 12.29 |
| | VOC | 0 | 0 | 0.66 | 0 | 0.02 | Negligible | Negligible | 0.68 |
| | CO | 0 | 0 | 10.03 | 0 | 0.29 | 0 | 0 | 10.32 |
| Hazardous Air Pollutants | Benzene | 0 | 0 | 2.51E-04 | 0 | 7.36E-06 | 0 | 0 | 2.58E-04 |
| | Dichlorobenzene | 0 | 0 | 1.43E-04 | 0 | 4.20E-06 | 0 | 0 | 1.47E-04 |
| | Formaldehyde | 0 | 0 | 8.95E-03 | 0 | 2.63E-04 | 0 | 0 | 9.22E-03 |
| | Hexane | 0 | 0 | 0.21 | 0 | 6.31E-03 | 0 | 0 | 0.22 |
| | Toluene | 0 | 0 | 4.06E-04 | 0 | 1.19E-05 | 0 | 0 | 4.2E-04 |
| | Cadmium | 0 | 0 | 1.31E-04 | 0 | 3.85E-06 | 0 | 0 | 1.4E-04 |
| | Chromium | 0.02 | 8.76E-04 | 1.67E-04 | 0 | 4.91E-06 | 0 | 0 | 0.02 |
| | Lead | 0 | 0 | 5.97E-05 | 0 | 1.75E-06 | 0 | 0 | 6.1E-05 |
| | Manganese | 0.03 | 0.00 | 4.54E-05 | 0 | 1.33E-06 | 0 | 0 | 0.04 |
| | Nickel | 0.01 | NA | 2.51E-04 | 0 | 7.36E-06 | 0 | 0 | 0.01 |
| Totals | | 0.06 | 0.00 | 0.23 | 0.00 | 0.01 | 0.00 | 0.00 | 0.29 |
| Worse Case HAP | | | | | | | | | 0.22 |

Total emissions based on rated capacity at 8,760 hours/year.

Appendix A: Emissions Calculations
Particulate and HAP Emissions from Metal Finishing Operations

Company Name: MPI Indiana Fineblanking
Address City IN Zip: 1200 Klockner Drive, Knox, IN 46534
Registration No.: 149-22957-00025
Registration Revision No.: 149-25233-00025
Reviewer: Hannah L. Desrosiers
Date: October 5, 2007

1. Particulate Emissions

| | Emissions Unit | Maximum Capacity (lb/hour) | Maximum Capacity (tons/hour) | PM/PM10 Weight Lost (lbs) | PM/PM10 Emission Factor (lbs/ton-hr) | Source of Emission Factor | Potential to Emit (tons/year) | |
|---|----------------------|----------------------------|------------------------------|---------------------------|--------------------------------------|---------------------------|-------------------------------|-------------|
| | | | | | | | PTE of PM | PTE of PM10 |
| Method 1 Mass Balance | Finishing Line 13996 | 348 | 0.17 | 0.05 | 0.29 | Mass Balance | 0.22 | 0.22 |
| | Process Line FCC | 750 | 0.38 | 0.16 | 0.43 | Mass Balance | 0.70 | 0.70 |
| | Finishing Line 13995 | 348 | 0.17 | 0.05 | 0.29 | Mass Balance | 0.22 | 0.22 |
| | Finishing Line 13994 | 1,038 | 0.52 | 0.10 | 0.19 | Mass Balance | 0.44 | 0.44 |
| | Belt Sanders | 1,800 | 0.90 | 0.09 | 0.10 | Mass Balance | 0.39 | 0.39 |
| | | Maximum Capacity (lb/hour) | Maximum Capacity (tons/hour) | - | PM/PM10 Emission Factor (lbs/ton) | Source of Emission Factor | Potential to Emit (tons/year) | |
| | | | | | | | PTE of PM | PTE of PM10 |
| Method 2 FIRE Emission Factors | Finishing Line 13996 | 348 | 0.17 | - | 4.50E-03 | FIRE 6.24 | 3.43E-03 | 3.43E-03 |
| | Process Line FCC | 750 | 0.38 | - | 4.50E-03 | FIRE 6.24 | 0.01 | 0.01 |
| | Finishing Line 13995 | 348 | 0.17 | - | 4.50E-03 | FIRE 6.24 | 3.43E-03 | 3.43E-03 |
| | Finishing Line 13994 | 1,038 | 0.52 | - | 4.50E-03 | FIRE 6.24 | 0.01 | 0.01 |
| | Belt Sanders | 1,800 | 0.90 | - | 4.50E-03 | FIRE 6.24 | 1.77E-02 | 0.02 |
| Method 1 Totals | | | | | | | 1.97 | 1.97 |
| Method 2 Totals | | | | | | | 0.04 | 0.04 |

Emission factors for Method 1: Mass balance are as provided by source, based on weight of product before and after finishing. Emission factor for Method 2 is from FIRE 6.24 (SCC 3-04-003-60). Assume PM emissions are equal to PM10.

The Process Lines identified as 1399, DDG, 2812 cell, 13991, 13992, 13993, Speed FAM Wet Grinder, and 13997 use wet grinding methods and do not produce particulate.

2. HAP Emissions

The worst case metal processed by the finishing lines and belt sanders contains 0.45% nickel, 1.75% manganese and 0.80% chromium.

| Total PTE of PM/PM10 (tons/year) | Weight % Nickel | Weight % Manganese | Weight % Chromium | PTE of Nickel (tons/year) | PTE of Manganese (tons/year) | PTE of Chromium (tons/year) |
|----------------------------------|-----------------|--------------------|-------------------|---------------------------|------------------------------|-----------------------------|
| 1.97 | 0.45% | 1.75% | 0.80% | 0.009 | 0.034 | 0.016 |

Methodology

PTE of PM/PM10 Before Controls (tons/year) = Maximum Capacity (tons/hour) x Emission Factor (lbs/ton metal) x 8760 (hours/year) x 1 ton/2,000 lbs
PTE of HAP Before Controls (tons/year) = PTE of PM/PM10 Before Controls (tons/year) x Weight % HAP

**Appendix A: Emissions Calculations
Particulate and HAP Emissions From Welding Operations**

Company Name: MPI Indiana Fineblanking
Address City IN Zip: 1200 Klockner Drive, Knox, IN 46534
Registration No.: 149-22957-00025
Registration Revision No.: 149-25233-00025
Reviewer: Hannah L. Desrosiers
Date: October 5, 2007

| Welding (ID #) | Number of Stations | Electrode Consumption Per Station (lbs/hour) | Emission Factors * (lbs pollutant/1,000 lbs electrode consumed) | | | | Potential to Emit (tons/year) | | | |
|---------------------|--------------------|--|--|------|-------|----|----------------------------------|-----------------|-----------------|-----------|
| | | | PM10 | Cr | Mn | Ni | PM10 | Cr | Mn | Ni |
| Metal Inert Gas (1) | 2 | 5.0 | 24.1 | 0.01 | 0.034 | NA | 1.06 | 4.38E-04 | 1.49E-03 | NA |
| Metal Inert Gas (2) | 2 | 5.0 | 24.1 | 0.01 | 0.034 | NA | 1.06 | 4.38E-04 | 1.49E-03 | NA |
| Total | | | | | | | 2.11 | 8.76E-04 | 2.98E-03 | NA |

MIG welders use ER5154 wire (worst case)

* MIG welding emission factors are from FIRE 6.24 (SCC 3-09-052-26)

Methodology

PTE (tons/year) = Number of Stations x Electrode Consumption (lbs/hour) x Emission Factor (lbs /1,000 lbs electrode) x 8,760 (hours/year) x 1 ton/2,000 lbs

**Appendix A: Emissions Calculations
Combustion Emissions from Natural Gas-fired Heaters
MM BTU/HR <100**

Company Name: MPI Indiana Fineblanking
Address City IN Zip: 1200 Klockner Drive, Knox, IN 46534
Registration No.: 149-22957-00025
Registration Revision No.: 149-25233-00025
Reviewer: Hannah L. Desrosiers
Date: October 5, 2007

| | |
|---|---|
| Total Heat Input Capacity (MMBtu/hour) 27.8 | Potential Throughput (MMscf/year) 239 |
|---|---|

| Emission Factor (lbs/MMscf) * | Pollutant | | | | | | |
|-------------------------------|-----------|--------|-----------------|---------|------|------|------|
| | PM** | PM10** | SO ₂ | NOx *** | VOC | CO | HAPs |
| Emission Factor (lbs/MMscf) * | 1.9 | 7.6 | 0.6 | 100 | 5.5 | 84.0 | 1.89 |
| PTE (tons/year) | 0.23 | 0.91 | 0.07 | 11.9 | 0.66 | 10.0 | 0.23 |

* Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (7/98).

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

*** Emission factor for NOx (Uncontrolled) = 100 lb/MMscf.

All emission factors are based on normal firing.

Methodology

Potential Throughput (MMscf/year) = Heat Input Capacity (MMBtu/hour) x 8,760 hours/year x 1 MMscf/1,020 MMBtu

PTE (tons/year) = Potential Throughput (MMscf/year) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

| HAPs - Organics | | | | | |
|-------------------------------|-----------|--------------------|--------------|-----------|-----------|
| | Benzene | Dichloro - benzene | Formaldehyde | Hexane | Toluene |
| Emission Factor in lb/MMcf | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 2.507E-04 | 1.433E-04 | 8.953E-03 | 2.149E-01 | 4.059E-04 |

| HAPs - Metals | | | | | |
|-------------------------------|-----------|-----------|-----------|-----------|----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| Emission Factor in lb/MMcf | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 5.969E-05 | 1.313E-04 | 1.671E-04 | 0.00 | 2.51E-04 |

Methodology is the same as prior.

| | | |
|-------------------|-------------|----------------|
| Total HAPs | 0.23 | tons/yr |
|-------------------|-------------|----------------|

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

**Appendix A: Emissions Calculations
Particulate Matter from Fugitive Sources, Unpaved Roads**

Company Name: MPI Indiana Fineblanking
Address City IN Zip: 1200 Klockner Drive, Knox, IN 46534
Registration No.: 149-22957-00025
Registration Revision No.: 149-25233-00025
Reviewer: Hannah L. Desrosiers
Date: October 5, 2007

Unpaved Roads

The following calculations determine the amount of emissions created by unpaved roads, based on 8760 hours of use and AP42, Ch. 13.2.2 (Supplement E, 9/98)

| | | |
|------|----------------|--------------------|
| 3 | trip/hr x | |
| 0.09 | mile/trip x | |
| 0.18 | (round trip) x | |
| 8760 | hr/yr = | 426 miles per year |

PM

Method: $E_f = \{k * [(s/12)^{0.8}] * [(W/3)^b] / [(Mdry/0.2)^c]\} * [(365-p) / 365]$
 = 4.38

where:

- k = 10 (particulate size multiplier for PM-10) (k = 10 for PM-30 or TSP)
- s = 4 mean % silt content of unpaved roads
- b = 0.5 Constant for PM-10 (b = 0.5 for PM-30 or TSP)
- c = 0.4 Constant for PM-10 (c = 0.4 for PM-30 or TSP)
- W = 120 tons average vehicle weight
- Mdry = 6.52 surface material moisture content, %
- p = 120 no. of days with at least 0.254 mm of precipitation (see Fig/ 13.2.2-1)

4.38 lb/mi * 425.736 mi/yr = **0.93 ton/yr**

PM10

Method: $E_f = \{k * [(s/12)^{0.8}] * [(W/3)^b] / [(Mdry/0.2)^c]\} * [(365-p) / 365]$
 = 1.11

where:

- k = 2.6 (particulate size multiplier for PM-10) (k = 10 for PM-30 or TSP)
- s = 4 mean % silt content of unpaved roads
- b = 0.4 Constant for PM-10 (b = 0.5 for PM-30 or TSP)
- c = 0.3 Constant for PM-10 (c = 0.4 for PM-30 or TSP)
- W = 120 tons average vehicle weight
- Mdry = 6.52 surface material moisture content, %
- p = 120 no. of days with at least 0.254mm of precipitation (see Fig/ 13.2.2-1)

1.11 lb/mi * 425.736 mi/yr = **0.24 ton/yr**

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

Company Name: MPI Indiana Fineblanking
Address City IN Zip: 1200 Klockner Drive, Knox, IN 46534
Registration No.: 149-22957-00025
Registration Revision No.: 149-25233-00025
Reviewer: Hannah L. Desrosiers
Date: October 5, 2007

Particulate and VOC Emissions from New Cincinnati Washer (S-23)

Heat Input Capacity
MMBtu/hr
0.8

Potential Throughput
MMCF/yr
7.0

| Emission Factor in lb/MMCF | Pollutant | | | | | |
|-------------------------------|-----------|--------|--------|-------------|--------|------|
| | PM* | PM10* | SO2 | NOx | VOC | CO |
| | 1.9 | 7.6 | 0.6 | 100.0 | 5.5 | 84.0 |
| | | | | **see below | | |
| Potential Emission in tons/yr | 0.0067 | 0.0266 | 0.0021 | 0.3504 | 0.0193 | 0.29 |

*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

HAPs Emissions New Cincinnati Washer (S-23)

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|-----------|---------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 0.00 |
| Potential Emission in tons/yr | 7.3584E-06 | 4.2048E-06 | 2.628E-04 | 0.0063072 | 0.00 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|-----------|-----------|-----------|-----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 1.752E-06 | 3.854E-06 | 4.906E-06 | 1.332E-06 | 7.358E-06 |

Methodology is the same as prior.

| | | |
|------------|----------|---------|
| Total HAPs | 0.006613 | tons/yr |
|------------|----------|---------|

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