



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: March 18, 2005
RE: Metaldyne Sintered Components / 079-20049-00014
FROM: Paul Dubenetzky
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 1/10/05

March 18, 2005

Mr. Dave Tempest
Metaldyne Sintered Components
3100 North State Highway #3
North Vernon, IN 47265

Re: 079-20049-00014
First Administrative Amendment to
Part 70 No.: T 079-12982-00014

Dear Mr. Tempest:

Metaldyne Sintered Components was issued a permit on April 17, 2002 for a stationary iron automotive connecting rods and steel forging operation. An application requesting changes to this permit was received on December 20, 2004. Pursuant to the provisions of 326 IAC 2-7-11, an administrative amendment to this permit is hereby approved as described in the attached Technical Support Document.

Specifically, Metaldyne Sintered Components has submitted an application to add:

- (a) two (2) double disk grinders, identified as DDM1 and DDM2, each with a maximum process rate of 720 parts per hour,
- (b) six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, each with a maximum process rate of 120 parts per hour,
- (c) two (2) CNC machines, identified as CNCM4, and CNCM6, each with a maximum process rate of 400 parts per hour,
- (d) two (2) crack and assembly machines, identified as CAM1 and CAM2, with respective maximum process rates of 267 and 400 parts per hour,
- (e) one (1) hone machine, identified as HM1, with a maximum process rate of 720 parts per hour,
- (f) one (1) parts washer, identified as PWM1, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack, and
- (g) two (2) Mazak machines, identified as M5 and M6, each with a maximum process rate of 800 pounds of carbon steel per hour.

The emissions due to the proposed equipment are the PM, PM10, VOC, and HAP emissions generated by the grinders, CNC machines, and hone machine, and VOC and HAP emissions generated by the parts washer.

The PM, PM10, VOC, single HAP, and combined HAP unrestricted emissions due to the proposed modification are estimated to be 0.09, 0.09, 0.81, 0.22, and 0.28 tons per year, respectively.

The grinders, CNC machines, crack and assembly machines, hone machine, Mazak machines, and parts washer are determined to be insignificant activities as defined under 326 IAC 2-7-1(21).

Therefore, the proposed units shall be incorporated into the existing source Part 70 operating permit via an Administrative Amendment pursuant to 326 IAC 2-7-11(a)(8)(B) which states changes which incorporate insignificant activities as defined in 326 IAC 2-7-1(21), may be incorporated in an existing source Part 70 permit via an Administrative Amendment.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

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 Scott Fulton, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, or call at (800) 451-6027, and ask for Scott Fulton or extension (3-5691), or dial (317) 233-5691.

Sincerely,

Original Signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

SDF

cc: File - Jennings County
U.S. EPA, Region V
Jennings County Health Department
Air Compliance Section Inspector - Jennifer Dorn
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Metaldyne Sintered Components
3100 North State Highway #3
North Vernon, Indiana 47265**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 079-12982-00014	Date Issued: April 17, 2002 Expiration Date: April 17, 2007
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	
First Significant Permit Modification No.: 079-17219-00014	Date Issued: May 14, 2003
First Administrative Amendment No.: 079-20049-00014	Affected Pages: 1 - 8, 35 - 39, with 8a and 39a added
Issued by: Original Signed by Paul Dubenetzky, Branch Chief Office of Air Quality	March 18, 2005

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary iron automotive connecting rods and steel forging source.

Responsible Official:	Tom Houck
Source Address:	3100 North State Highway #3, North Vernon, Indiana 47265
Mailing Address:	3100 North State Highway #3, North Vernon, Indiana 47265
General Source Phone Number:	812 - 346 - 1566
SIC Code:	3462
County Location:	Jennings
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) Two (2) 600-amp electric delube furnaces, known as A1 and A2, each equipped with natural gas-fired afterburners, each rated at 0.002 million British thermal units per hour for methane control, exhausted through Stacks AS1 and AS2, installed in 1994, capacity 1,440 pounds of carbon steel rods per hour, each.
- (b) Three (3) 600-amp electric delube furnaces, known as A3, A5 and A6, each equipped with a natural gas-fired afterburner, each rated at 0.002 million British thermal units per hour for methane control, exhausted through Stacks AS3, AS5 and AS6, installed in 1994, capacity: 1,440 pounds of carbon steel rods per hour, each.
- (c) One (1) 900-amp electric delube furnace, known as A7, equipped with a natural gas-fired afterburner, rated at 0.002 million British thermal units per hour for methane control, exhausted through Stack AS7, installed in 1999, capacity: 2,515 pounds of carbon steel rods per hour.
- (d) One (1) 900-amp electric delube furnace, known as A8, equipped with a natural gas-fired afterburner, rated at 0.002 million British thermal units per hour for methane control exhausted through Stack AS8, to be installed, capacity: 2,515 pounds of carbon steel rods per hour.
- (e) Eight (8) 330-amp electric rotary hearth furnaces, known as B1 through B8, exhausted through Stacks BS1 through BS8, B1 through B4 installed in 1994, B5 and B6 installed in 1995, B7 and B8, installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each for B1 through B5, B7 and B8, and 1,333 pounds of carbon steel rods per hour for B6.

- (f) Six (6) 330-amp electric rotary hearth furnaces, known as B9 through B14, exhausted through Stacks BS9 through BS14, to be installed, capacity: 1,050 pounds of carbon steel rods per hour, each.
- (g) Two (2) 330-amp electric rotary hearth furnaces, known as B15 and B16, exhausted through Stacks BS15 and BS16, installed in 1999, capacity: 1,333 pounds of carbon steel rods per hour, each.
- (h) Four (4) secondary deflash machines, known as SD1, SD2, SD3 and SD9, each equipped with a dust collector, installed in 1999, capacity: 1,000 pounds of carbon steel rods per hour, each.
- (i) Five (5) secondary deflash machines, known as SD4, SD5, SD6, SD7 and SD8, each equipped with a dust collector, installed in 1995, capacity: 1,000 pounds of steel carbon rods per hour, each.
- (j) Two (2) shot peen machines, known as SP1 and SP2, equipped with two (2) baghouses, known as SPD1 and SPD2, respectively, installed in 1994, capacity: 144,000 pounds of steel shot per hour and a throughput of 2,000 pounds of carbon steel rods per hour, each.
- (k) Two (2) shot peen machines, known as SP3 and SP4, equipped with two (2) baghouses, known as SPD3 and SPD4, respectively, installed in 1995, capacity: 144,000 pounds of steel shot per hour and a throughput of 2,000 pounds of carbon steel rods per hour, each.
- (l) One (1) shot peen machine, known as SP5, equipped with one (1) baghouse, known as SPD5, installed in 1999, capacity: 144,000 pounds of steel shot per hour and a throughput of 4,800 pounds of carbon steel rods per hour.
- (m) Two (2) shot peen machines, known as SP6 and SP7, equipped with two (2) baghouses, known as SPD6 and SPD7, respectively, to be installed, capacity: 144,000 pounds of steel shot per hour, each, SP6 throughput: 2,000 pounds of carbon steel rods per hour, SP7 throughput: 4,800 pounds of carbon steel rods per hour.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities as defined in 326 IAC 2-7-1(21):

- (a) Three (3) compacting presses, known as CP1 through CP3, installed in 1994, capacity: 2,880 pounds of powdered carbon steel per hour, each. (326 IAC 6-3-2)
- (b) Two (2) compacting presses, known as CP5 and CP6, installed in 1995, capacity 2,880 pounds of powdered carbon steel per hour, each. (326 IAC 6-3-2)
- (c) One (1) compacting press, known as CP7, installed in 1999, capacity: 2,880 pounds of powdered carbon steel per hour. (326 IAC 6-3-2)
- (d) One (1) compacting press, known as CP8, to be installed, capacity: 2,880 pounds of powdered carbon steel and lubricant per hour. (326 IAC 6-3-2)
- (e) Two (2) double disk grinders, known as DD1 and DD2, equipped with a wet process for PM control, installed in 1994, capacity: 2,000 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)

- (f) Two (2) double disk grinders, known as DD3 and DD4, equipped with a wet process for PM control, installed in 1995, capacity: 2,000 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (g) Two (2) double disk grinders, known as DD5 and DD6, equipped with a wet process for PM control, to be installed, capacity: 2,000 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (h) Two (2) double disk grinders, identified as DDM1 and DDM2, each with a maximum process rate of 720 parts per hour.
- (i) Four (4) 900-ton forge presses, known as F1 through F4, installed in 1994, capacity of 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (j) Two (2) 900-ton forge presses, known as F5 and F6, installed in 1995, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (k) One (1) 900-ton forge press, known as F7, installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (l) One (1) 1,000-ton forge press, known as F8, installed in 1997, capacity: 2,100 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (m) Six (6) 900-ton forge presses, known as F9 through F14, to be installed, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (n) Two (2) 1,000-ton forge presses, known as F15 and F16, installed in 1999, capacity: 2,100 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (o) Five (5) magna flux machines, known as MF1, MF2, MF3, MF4 and MF5, installed in 1995, capacity: 2,300 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (p) One (1) magna flux machine, known as MF7, installed in 1999, capacity: 2,300 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (q) Four (4) mazak machines, known as M1 through M4, installed in 1999, capacity: 800 pounds of carbon steel per hour each. (326 IAC 6-3-2)
- (r) Two (2) Mazak machines, identified as M5 and M6, each with a maximum process rate of 800 pounds of carbon steel per hour.
- (s) Six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, each with a maximum process rate of 120 parts per hour.
- (t) Two (2) CNC machines, identified as CNCM4, and CNCM6, each with a maximum process rate of 400 parts per hour.
- (u) Two (2) crack and assembly machines, identified as CAM1 and CAM2, with respective maximum process rates of 267 and 400 parts per hour.
- (v) One (1) hone machine, identified as HM1, with a maximum process rate of 720 parts per hour.

- (w) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. (326 IAC 8-3-5) (326 IAC 8-3-2) consisting of two (2) parts washers, installed in 1994.
- (x) One (1) parts washer, identified as PWM1, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack.
- (y) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (z) Paved and unpaved roads and parking lots with public access. (326 IAC 6-4)
- (aa) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations as well as a quality control Wheelabator shot blaster. (326 IAC 6-3-2)
- (bb) Emergency generators as follows: diesel generators not exceeding 1,600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower.
- (cc) Farm operations.
- (dd) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (ee) Ink jet operations (14 stations) have the potential to emit MEK and methanol (HAPs) emissions at a total of 0.229 tons per year.
- (ff) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.
- (gg) Any operation using aqueous solutions containing less than 1 percent by weight of VOCs excluding HAPs.
- (hh) Noncontact cooling tower systems with either of the following: forced and induced draft cooling tower system not regulated under a NESHAP.
- (ii) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (jj) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (kk) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

- (ll) One (1) automated deflash machine, known as AD10, equipped with a self-contained aerology unit (dust collector), known as ADA10, exhausting inside the building, installed in 1999, capacity: 1,200 pounds of carbon steel rods per hour.
- (mm) Thirty-six (36) rework sanders, known as G1 through G36, equipped with eleven (11) aerology units (dust collectors), installed in 1999, capacity: 500 pounds of carbon steel rods per hour, each.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (a) Three (3) compacting presses, known as CP1 through CP3, installed in 1994, capacity: 2,880 pounds of powdered carbon steel per hour, each. (326 IAC 6-3-2)
- (b) Two (2) compacting presses, known as CP5 and CP6, installed in 1995, capacity 2,880 pounds of powdered carbon steel per hour, each. (326 IAC 6-3-2)
- (c) One (1) compacting press, known as CP7, installed in 1999, capacity: 2,880 pounds of powdered carbon steel per hour. (326 IAC 6-3-2)
- (d) One (1) compacting press, known as CP8, to be installed, capacity: 2,880 pounds of powdered carbon steel and lubricant per hour. (326 IAC 6-3-2)
- (e) Two (2) double disk grinders, known as DD1 and DD2, equipped with a wet process for PM control, installed in 1994, capacity: 2,000 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (f) Two (2) double disk grinders, known as DD3 and DD4, equipped with a wet process for PM control, installed in 1995, capacity: 2,000 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (g) Two (2) double disk grinders, known as DD5 and DD6, equipped with a wet process for PM control, to be installed, capacity: 2,000 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (h) Two (2) double disk grinders, identified as DDM1 and DDM2, each with a maximum process rate of 720 parts per hour.
- (i) Four (4) 900-ton forge presses, known as F1 through F4, installed in 1994, capacity of 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (j) Two (2) 900-ton forge presses, known as F5 and F6, installed in 1995, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (k) One (1) 900-ton forge press, known as F7, installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (l) One (1) 1,000-ton forge press, known as F8, installed in 1997, capacity: 2,100 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (m) Six (6) 900-ton forge presses, known as F9 through F14, to be installed, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (n) Two (2) 1,000-ton forge presses, known as F15 and F16, installed in 1999, capacity: 2,100 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (o) Five (5) magna flux machines, known as MF1, MF2, MF3, MF4 and MF5, installed in 1995, capacity: 2,300 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (p) One (1) magna flux machine, known as MF7, installed in 1999, capacity: 2,300 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (q) Four (4) mazak machines, known as M1 through M4, installed in 1999, capacity: 800 pounds of carbon steel per hour each. (326 IAC 6-3-2)
- (r) Two (2) Mazak machines, identified as M5 and M6, each with a maximum process rate of 800 pounds of carbon steel per hour.

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities - Continued

- (s) Six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, each with a maximum process rate of 120 parts per hour.
- (t) Two (2) CNC machines, identified as CNCM4, and CNCM6, each with a maximum process rate of 400 parts per hour.
- (u) Two (2) crack and assembly machines, identified as CAM1 and CAM2, with respective maximum process rates of 267 and 400 parts per hour.
- (v) One (1) hone machine, identified as HM1, with a maximum process rate of 720 parts per hour.
- (w) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. (326 IAC 8-3-5) (326 IAC 8-3-2) consisting of two (2) parts washers, installed in 1994.
- (x) One (1) parts washer, identified as PWM1, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack.
- (y) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (z) Paved and unpaved roads and parking lots with public access. (326 IAC 6-4)
- (aa) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations as well as a quality control Wheelabrator shot blaster. (326 IAC 6-3-2)
- (bb) Emergency generators as follows: diesel generators not exceeding 1,600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower.
- (cc) Farm operations.
- (dd) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (ee) Ink jet operations (14 stations) have the potential to emit MEK and methanol (HAPs) emissions at a total of 0.229 tons per year.
- (ff) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.
- (gg) Any operation using aqueous solutions containing less than 1 percent by weight of VOCs excluding HAPs.
- (hh) Noncontact cooling tower systems with either of the following: forced and induced draft cooling tower system not regulated under a NESHAP.
- (ii) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities - Continued

- (jj) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (kk) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (ll) One (1) automated deflash machine, known as AD10, equipped with a self-contained aerocology unit (dust collector), known as ADA10, exhausting inside the building, installed in 1999, capacity: 1,200 pounds of carbon steel rods per hour.
- (mm) Thirty-six (36) rework sanders, known as G1 through G36, equipped with eleven (11) aerocology units (dust collectors), installed in 1999, capacity: 500 pounds of carbon steel rods per hour, each.

The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, 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 operation 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.

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser without remote solvent reservoirs constructed after July 1, 1990, shall ensure that the following 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 (38EC) (one hundred degrees Fahrenheit (100EF));
 - (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 (38EC) (one hundred degrees Fahrenheit (100EF)), 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 degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF)):
 - (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 of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall 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.

D.3.3 Particulate Matter (PM) [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the brazing equipment, cutting torches, soldering equipment, welding equipment, grinding and machining operations including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations shall not exceed allowable PM emission rate based on the following equation:

Interpolation of the data for the process weight rate up to 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

- (b) Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the compacting presses, known as CP1 through CP8, double disk grinders, known as DD1 through DD6, forge presses, known as F1 through F16, magna flux machines, known as MF1 through MF5 and MF7, mazak machines, known as M1 through M4, automated deflash machine known as AD10 and the rework sanders known as G1 through G36 shall not exceed the following based on the process weight rates listed in the table.

The pounds per hour limitations were calculated with the following equation:

Interpolation of the data for the process weight rate up to 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

Operation	Process Weight Rate	Allowable PM Emission Rate (pounds per hour)
Compacting Presses (CP1 - CP8)	1.44 tons/hr each (2,880 lbs/hr)	5.24 each
Double Disk Grinders (DD1 - DD6)	1.00 tons/hr each (2,000 lbs/hr)	4.10 each
Forge Presses (F1 - F7 and F9 - F14)	0.525 tons/hr each (1,050 lbs/hr)	2.66 each
Forge Presses (F8, F15 and F16)	1.05 tons/hr each (2,100 lbs/hr)	4.24 each
Magna Flux Machines, (MF1 - MF5 and MF7)	1.15 tons/hr each (2,300 lbs/hr)	4.50 each
Mazak Machines (M1 - M4)	0.400 tons/hr each (800 lbs/hr)	2.22 each
Automated Deflash Machine (AD10)	0.600tons/hr (1,200 lbs/hr)	2.91
Rework Sanders (G1 - G36)	0.250 tons/hr each (500 lbs/hr each)	1.62 each

- (c) The requirement from SSM 079-10884-00014, issued on August 10, 1999, Condition D.1.1 (a) stated that pursuant to 326 IAC 6-3-2, the allowable PM emission rate shall not exceed 4.35 pounds per hour for automated deflash machine, known as AD10 is no longer applicable because with a process weight rate of 1,200 pounds per hour for the automated deflash machine, known as AD10, the allowable PM emission rate should be 2.91 pounds per hour. Thus, Condition D.1.1(a) of SSM 079-10884-00014 is hereby rescinded.

D.3.4 Fugitive Dust Emissions (326 IAC 6-4)

Pursuant to 326 IAC 6-4, the Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located from paved and unpaved roads and parking lots with public access.

D.3.5 VOC, Parts Washer PWM1

Should the Permittee make any changes or modifications which would increase the actual VOC emissions for parts washer PWM1 to greater than or equal to fifteen (15) pounds per day, the Permittee shall obtain prior approval from IDEM, OAQ and shall be subject to the requirements of 326 IAC 8-3.

Compliance Determination Requirements

D.3.6 Particulate Matter (PM)

In order to comply with Condition D.3.3, the dust collectors and self-contained aerocology dust collectors for PM control shall be in operation and control emissions from the automated (AD10) deflash machine as well as the rework sanders at all times that these facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.7 Visible Emissions Notations

The requirement from SSM 079-10884-00014, issued on August 10, 1999, Condition D.1.4 which required daily visible emission notations of the rework sanders is no longer applicable because the rework sanders have been designated as insignificant activities. Thus, Condition D.1.4 of SSM 079-10884-00014 is hereby rescinded.

There are no specific Compliance Monitoring Requirements applicable to these emission units.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.8 Record Keeping Requirements

To document that the actual VOC emissions of Condition D.3.5 are less than the applicable level of fifteen (15) pounds per day, the Permittee shall maintain records of the amount and VOC content of the worst case parts washing solution used. Said records shall include all purchase orders and invoices and the material safety data sheets (MSDS) for the worst case parts washing solution used at parts washer PWM1.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for an Administrative Amendment to an Existing Part 70 Permit

Source Background and Description

Source Name:	Metaldyne Sintered Components
Source Location:	3100 North State Highway 3, North Vernon, Indiana 47265
County:	Jennings
SIC Code:	3462
Operation Permit No.:	T 079-12982-00014
Operation Permit Issuance Date:	April 17, 2002
Administrative Amendment No.:	079-20049-00014
Permit Reviewer:	SDF

Metaldyne Sintered Components has submitted a request to modify their existing stationary iron automotive connecting rods and steel forging operation.

Specifically, Metaldyne Sintered Components has submitted an application to add:

- (a) two (2) double disk grinders, identified as DDM1 and DDM2, each with a maximum process rate of 720 parts per hour,
- (b) six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, each with a maximum process rate of 120 parts per hour,
- (c) two (2) CNC machines, identified as CNCM4, and CNCM6, each with a maximum process rate of 400 parts per hour,
- (d) two (2) crack and assembly machines, identified as CAM1 and CAM2, with respective maximum process rates of 267 and 400 parts per hour,
- (e) one (1) hone machine, identified as HM1, with a maximum process rate of 720 parts per hour,
- (f) one (1) parts washer, identified as PWM1, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack, and
- (g) two (2) Mazak machines, identified as M5 and M6, each with a maximum process rate of 800 pounds of carbon steel per hour.

As part of their original application, the source submitted a request to install and operate an oiler as well, but decided to not to install it and withdrew their request for the oiler via a phone message left on March 14, 2005.

The emissions due to the proposed equipment are the PM, PM10, VOC, and HAP emissions generated by the grinders, CNC machines, and hone machine, and VOC and HAP emissions generated by the parts washer.

The PM, PM10, VOC, single HAP, and combined HAP unrestricted emissions due to the proposed modification are estimated to be 0.09, 0.09, 0.81, 0.22, and 0.28 tons per year, respectively.

The grinders, CNC machines, crack and assembly machines, hone machine, Mazak machines, and parts washer are determined to be insignificant activities as defined under 326 IAC 2-7-1(21).

Therefore, the proposed units shall be incorporated into the existing source Part 70 operating permit via an Administrative Amendment pursuant to 326 IAC 2-7-11(a)(8)(B) which states changes which incorporate insignificant activities as defined in 326 IAC 2-7-1(21), may be incorporated in an existing source Part 70 permit via an Administrative Amendment.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
Parts Washer	Parts Washer	38	1.0	800	120

Existing Approvals

The source has been operating under Part 70 permit 079-12982-00014, issued on April 17, 2002, and First Significant Permit Modification 079-17219-00014, issued on May 14, 2003.

Recommendation

The staff recommends to the Commissioner that the Administrative Amendment 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 provided by the applicant via phone and e-mail on February 3, 2005, e-mail on February 24, 2005, phone on March 14, 2005, and phone on March 15, 2005.

An application for the purposes of this review was received on December 20, 2004.

Emission Calculations

The emissions due to the proposed equipment are the PM, PM10, VOC, and HAP emissions generated by the proposed equipment.

The following calculations determine the unrestricted emissions and emissions after controls.

Unrestricted Potential To Emit (UPTE):

(a) Grinders:

The proposed grinding machines utilize coolant during operation which serves not only as a lubricant, but also reduces the grinding PM and PM10 emissions generated to 0.03 ton/yr.

The coolant applied contains VOC and HAP. This coolant is applied to not only the proposed grinding machines, but also the proposed CNC and Hone machines. The total amount of coolant used at the three machines is 5 gallons per month. For the purposes of determining the potential VOC/HAP emissions from these units, the usage has been divided equally amongst the three affected points.

$$5 \text{ gal/mo} * 1/3 \text{ machines} = 1.66 \text{ gal/mo per machine}$$

The following calculations determine the VOC and HAP emissions from the grinders based on a maximum coolant usage rate of 1.66 gallons per month and a maximum VOC(HAP) content of 1.80 lb/gal.

$$1.80 \text{ lb VOC(HAP)/gal} * 1.66 \text{ gal/mo} * 12 \text{ mo/yr} * 1/2000 \text{ ton/lb} = 0.02 \text{ ton VOC(HAP)/yr}$$

(b) CNC Machines:

The proposed CNC machines utilize coolant during operation which serves not only as a lubricant, but also reduces the process PM and PM10 emissions generated to 0.03 ton/yr.

The coolant applied contains VOC and HAP. This coolant is applied to not only the proposed CNC machines, but also the proposed grinding and Hone machines. The total amount of coolant used at the three machines is 5 gallons per month. For the purposes of determining the potential VOC/HAP emissions from these units, the usage has been divided equally amongst the three affected points.

$$5 \text{ gal/mo} * 1/3 \text{ machines} = 1.66 \text{ gal/mo per machine}$$

The following calculations determine the VOC and HAP emissions from the CNC machines based on a maximum coolant usage rate of 1.66 gallons per month and a maximum VOC(HAP) content of 1.80 lb/gal.

$$1.80 \text{ lb VOC(HAP)/gal} * 1.66 \text{ gal/mo} * 12 \text{ mo/yr} * 1/2000 \text{ ton/lb} = 0.02 \text{ ton VOC(HAP)/yr}$$

(c) Crack and Assembly Machines:

The crack and assembly machines are determined to be ancillary equipment, generating no regulated pollutant emissions.

(d) Hone Machine:

The proposed hone machine utilizes coolant during operation which serves not only as a lubricant, but also reduces the process PM and PM10 emissions generated to 0.03 ton/yr.

The coolant applied contains VOC and HAP. This coolant is applied to not only the proposed hone machine, but also the proposed grinding and CNC machines. The total amount of coolant used at the three machines is 5 gallons per month. For the purposes of determining the potential VOC/HAP emissions from these units, the usage has been divided equally amongst the three affected points.

$$5 \text{ gal/mo} * 1/3 \text{ machines} = 1.66 \text{ gal/mo per machine}$$

The following calculations determine the VOC and HAP emissions from the hone machine based on a maximum coolant usage rate of 1.66 gallons per month and a maximum VOC(HAP) content of 1.80 lb/gal.

$$1.80 \text{ lb VOC(HAP)/gal} * 1.66 \text{ gal/mo} * 12 \text{ mo/yr} * 1/2000 \text{ ton/lb} = 0.02 \text{ ton VOC(HAP)/yr}$$

(e) Parts Washer:

The parts washer utilizes a petroleum based solution which consists of materials which contain VOC and HAP.

(1) VOC: The following calculations determine the parts washer VOC emissions based on a manufacturer's emission factor of 2.38 E-4 lb VOC/part, a maximum production rate of 720 parts per hour, emissions before controls, and 8760 hours of operation.

$$2.38 \text{ E-4 lb VOC/part} * 720 \text{ parts/hr} * 8760 \text{ hr/yr} * 1/2000 \text{ ton/lb} = 0.75 \text{ ton/yr}$$

(2) HAP: The following calculations determine the parts washer HAP emissions based on a manufacturer's emission factor of 6.94 E-5 lb HAP/part, a maximum production rate of 720 parts per hour, emissions before controls, and 8760 hours of operation.

$$6.94 \text{ E-5 lb glycol ether/part} * 720 \text{ parts/hr} * 8760 \text{ hr/yr} * 1/2000 \text{ ton/lb} = 0.22 \text{ ton/yr}$$

(f) Mazak Machines:

The Mazak machines are determined to be ancillary equipment, generating no regulated pollutant emissions.

Total UPTE:

The total UPTE due to the modification is the sum of the estimated press and cleanup solvent emissions.

	PM (tons/yr)	PM10 (tons/yr)	VOC (tons/yr)	HAP (tons/yr)
Grinders	0.03	0.03	0.02	0.02
CNC Machines	0.03	0.03	0.02	0.02
Crack and Assembly Machines	-	-	-	-
Hone Machine	0.03	0.03	0.02	0.02
Parts Washer	-	-	0.75	0.22
Mazak Machine	-	-	-	-
Total	0.09	0.09	0.81	0.28

Emissions After Controls:

The emissions from the proposed equipment are uncontrolled. Therefore, the emissions after controls are determined to be equal to the estimated emissions before controls.

	PM (tons/yr)	PM10 (tons/yr)	VOC (tons/yr)	HAP (tons/yr)
Grinders	0.03	0.03	0.02	0.02
CNC Machines	0.03	0.03	0.02	0.02
Crack and Assembly Machines	-	-	-	-
Hone Machine	0.03	0.03	0.02	0.02
Parts Washer	-	-	0.75	0.22
Mazak Machine	-	-	-	-
Total	0.09	0.09	0.81	0.28

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 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.”

This table reflects the PTE before controls due to the proposed changes. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	0.09
PM-10	0.09
SO ₂	-
VOC	0.81
CO	-
NO _x	-

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential To Emit (tons/year)
Worst case Single HAP	0.22
TOTAL	0.28

The proposed units shall be incorporated into the existing source Part 70 operating permit via an Administrative Amendment pursuant to 326 IAC 2-7-11(a)(8)(B) which states changes which incorporate insignificant activities as defined in 326 IAC 2-7-1(21), may be incorporated in an existing source Part 70 permit via an Administrative Amendment.

County Attainment Status

The source is located in Jennings County.

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

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Jennings County has been designated as attainment or unclassifiable for ozone. Therefore, the VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Jennings 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.

(c) Fugitive Emissions

Since this type of operation is not one of the 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 emissions are not counted toward determination of PSD and Emission Offset applicability.

Existing Source Emissions

Existing source federal major source definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited, as obtained from the Technical Support Document (TSD) of the existing source Part 70 permit (079-12982-00014, issued on April 17, 2002):

Unit	PM (tons/yr)	PM10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Single HAP (tons/yr)	Comb. HAPs (tons/yr)
Existing Source	21.50	21.50	1.62	14.54	1.80	76.50	0.729	0.729

Major Source Levels	250	250	250	250	250	250	-	-
Part 70 Major Levels	-	100	100	100	100	100	10	25

(a) This existing source is not an existing 326 IAC 2-2 PSD major source because no criteria pollutant emissions exceed their applicable level of 250 tons per year.

(b) This existing source is a Title V major stationary source.

Potential to Emit After Issuance

The table below summarizes the source potential to emit after the proposed changes, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 operating permit.

Unit	PM (tons/yr)	PM10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Single HAP (tons/yr)	Comb. HAPs (tons/yr)
Existing Source	21.50	21.50	1.62	14.54	1.80	76.50	0.729	0.729
Proposed Modification	0.09	0.09	-	-	0.81	-	0.22	0.28
Total	21.59	21.59	1.62	14.54	2.61	76.50	0.729	1.01

Fed. Major Source Levels	250	250	250	250	250	250	-	-
Part 70 Major Levels	-	100	100	100	100	100	10	25

(a) The source after the proposed modification is still a 326 IAC 2-2 minor source because no criteria pollutant emissions exceed their applicable level of 250 tons per year.

- (b) This source after the proposed modification is still a Title V major stationary source because the proposed modification does not change the status of the permit.

Federal Rule Applicability

- (a) The proposed changes do not trigger any new applicable New Source Performance Standards (NSPS)(40 CFR Part 60) or result in any changes to any existing NSPS determinations.
- (b) The proposed changes do not trigger any new applicable National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 61 and 63) or result in any changes to any existing NESHAP determinations.

State Rule Applicability - Individual Facilities

(a) 326 IAC 2-2 (Prevention of Significant Deterioration):

The requirements of 326 IAC 2-2 do not apply to the proposed equipment because the source emissions are still limited to less than the applicable level of 250 tons per year.

(b) 326 IAC 2-6 (Emission Reporting):

The proposed modification will not affect the applicability or result in any changes to the requirements of 326 IAC 2-6.

(c) 326 IAC 4:

The proposed modification will not affect the applicability or result in any changes to the requirements of 326 IAC 4.

(d) 326 IAC 5:

The proposed modification will not affect the applicability or result in any changes to the requirements of 326 IAC 5.

(e) 326 IAC 6-4:

The proposed modification will not affect the applicability or result in any changes to the requirements of 326 IAC 6-4.

State Rule Applicability - Individual Facilities

(a) 326 IAC 2-4.1:

The requirements of 326 IAC 2-4.1 do not apply to the proposed modification because 326 IAC 2-4.1 does not apply to modifications.

(b) 326 IAC 6-3:

The requirements of 326 IAC 6-3 do apply to any of the proposed equipment because the combined total PM/PM10 emissions (0.02 lb/hr) are less than the 326 IAC 6-3-1(b)(14) applicable level of 0.551 lb/hr.

(c) 326 IAC 8-3:

Pursuant to 326 IAC 8-1-1(b), a facility subject to Article 8 may be exempted by the Commissioner from any of the applicable sections of Article 8 if the actual emissions are less than 15 lb/day.

The potential emissions (4.44 lb/day) are less than the applicable rate of 15 lb/day. Therefore, the requirements of 326 IAC 8-3 do not apply to the proposed parts washer.

To ensure that the "actual" VOC emissions do not exceed the applicable level of 15 lb/day, the following Condition shall be added to the permit.

D.3.5 VOC, Parts Washer PWM1

Should the Permittee make any changes or modifications which would increase the actual VOC emissions for parts washer PWM1 to greater than or equal to fifteen (15) pounds per day, the Permittee shall obtain prior approval from IDEM, OAQ and shall be subject to the requirements of 326 IAC 8-3.

To document that the "actual" VOC emissions are less than 15 lb/day, the Permittee will be required to keep records that can be used to determine the actual VOC emissions, including all invoices, purchase orders, and material safety data sheets (MSDS). Therefore, the following condition will be added.

D.3.8 Record Keeping Requirements

To document that the actual VOC emissions of Condition D.3.5 are less than the applicable level of fifteen (15) pounds per day, the Permittee shall maintain records of the amount and VOC content of the worst case parts washing solution used. Said records shall include all purchase orders and invoices and the material safety data sheets (MSDS) for the worst case parts washing solution used at parts washer PWM1.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

(d) 326 IAC 8-1-6:

Although there are no other applicable Article 8 rules that apply to the proposed modification, the requirements of 326 IAC 8-1-6 do not apply because the unrestricted potential VOC emissions from the grinding, CNC, and hone machines, and parts washer, 0.02, 0.02, 0.02, and 0.75 ton/yr, respectively, each are less than the applicable level of 25 tons per year.

Changes

(a) Unit Description of Condition A.3:

The unit description of Condition A.3 shall be changed as follows to include the proposed units.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities as defined in 326 IAC 2-7-1(21):

- (a) Three (3) compacting presses, known as CP1 through CP3, installed in 1994, capacity: 2,880 pounds of powdered carbon steel per hour, each. (326 IAC 6-3-2).....

- (h) Two (2) double disk grinders, identified as DDM1 and DDM2, each with a maximum process rate of 720 parts per hour.**
- (hi) Four (4) 900-ton forge presses, known as F1 through F4, installed in 1994, capacity of 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (+j) Two (2) 900-ton forge presses, known as F5 and F6, installed in 1995, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (jk) One (1) 900-ton forge press, known as F7, installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (k l) One (1) 1,000-ton forge press, known as F8, installed in 1997, capacity: 2,100 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (+m) Six (6) 900-ton forge presses, known as F9 through F14, to be installed, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (mn) Two (2) 1,000-ton forge presses, known as F15 and F16, installed in 1999, capacity: 2,100 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (no) Five (5) magna flux machines, known as MF1, MF2, MF3, MF4 and MF5, installed in 1995, capacity: 2,300 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (op) One (1) magna flux machine, known as MF7, installed in 1999, capacity: 2,300 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (pq) Four (4) mazak machines, known as M1 through M4, installed in 1999, capacity: 800 pounds of carbon steel per hour each. (326 IAC 6-3-2)
- (r) Two (2) Mazak machines, identified as M5 and M6, each with a maximum process rate of 800 pounds of carbon steel per hour.**
- (s) Six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, each with a maximum process rate of 120 parts per hour.**
- (t) Two (2) CNC machines, identified as CNCM4, and CNCM6, each with a maximum process rate of 400 parts per hour.**
- (u) Two (2) crack and assembly machines, identified as CAM1 and CAM2, with respective maximum process rates of 267 and 400 parts per hour.**
- (v) One (1) hone machine, identified as HM1, with a maximum process rate of 720 parts per hour.**
- (qw) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. (326 IAC 8-3-5) (326 IAC 8-3-2) consisting of two (2) parts washers, installed in 1994.
- (x) One (1) parts washer, identified as PWM1, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack.**
- (fy) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (sz) Paved and unpaved roads and parking lots with public access. (326 IAC 6-4)
- (taa) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations as well as a quality control Wheelabator shot blaster. (326 IAC 6-3-2)
- (+bb) Emergency generators as follows: diesel generators not exceeding 1,600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower.
- (vcc) Farm operations.
- (wdd) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (xee) Ink jet operations (14 stations) have the potential to emit MEK and methanol (HAPs) emissions at a total of 0.229 tons per year.

- (yff) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.
- (zgg) Any operation using aqueous solutions containing less than 1 percent by weight of VOCs excluding HAPs.
- (aahh) Noncontact cooling tower systems with either of the following: forced and induced draft cooling tower system not regulated under a NESHAP.
- (bbii) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (eejj) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (ddkk) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (eell) One (1) automated deflash machine, known as AD10, equipped with a self-contained aerology unit (dust collector), known as ADA10, exhausting inside the building, installed in 1999, capacity: 1,200 pounds of carbon steel rods per hour.
- (ffmm) Thirty-six (36) rework sanders, known as G1 through G36, equipped with eleven (11) aerology units (dust collectors), installed in 1999, capacity: 500 pounds of carbon steel rods per hour, each.

(b) Unit Description of Section D.3:

The unit description of Condition A.3 shall be changed as follows to include the proposed units description.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (a) Three (3) compacting presses, known as CP1 through CP3, installed in 1994, capacity: 2,880 pounds of powdered carbon steel per hour, each. (326 IAC 6-3-2).....
- (h) Two (2) double disk grinders, identified as DDM1 and DDM2, each with a maximum process rate of 720 parts per hour.**
- (hi) Four (4) 900-ton forge presses, known as F1 through F4, installed in 1994, capacity of 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (i-j) Two (2) 900-ton forge presses, known as F5 and F6, installed in 1995, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (jk) One (1) 900-ton forge press, known as F7, installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (k l) One (1) 1,000-ton forge press, known as F8, installed in 1997, capacity: 2,100 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (l-m) Six (6) 900-ton forge presses, known as F9 through F14, to be installed, capacity: 1,050 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (m-n) Two (2) 1,000-ton forge presses, known as F15 and F16, installed in 1999, capacity: 2,100 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (no) Five (5) magna flux machines, known as MF1, MF2, MF3, MF4 and MF5, installed in 1995, capacity: 2,300 pounds of carbon steel rods per hour, each. (326 IAC 6-3-2)
- (op) One (1) magna flux machine, known as MF7, installed in 1999, capacity: 2,300 pounds of carbon steel rods per hour. (326 IAC 6-3-2)
- (pq) Four (4) mazak machines, known as M1 through M4, installed in 1999, capacity: 800 pounds of carbon steel per hour each. (326 IAC 6-3-2)

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities - Continued

- (r) **Two (2) Mazak machines, identified as M5 and M6, each with a maximum process rate of 800 pounds of carbon steel per hour.**
- (s) **Six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, each with a maximum process rate of 120 parts per hour**
- (t) **Two (2) CNC machines, identified as CNCM4, and CNCM6, each with a maximum process rate of 400 parts per hour**
- (u) **Two (2) crack and assembly machines, identified as CAM1 and CAM2, with respective maximum process rates of 267 and 400 parts per hour**
- (v) **One (1) hone machine, identified as HM1, with a maximum process rate of 720 parts per hour**
- (qw) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. (326 IAC 8-3-5) (326 IAC 8-3-2) consisting of two (2) parts washers, installed in 1994.
- (x) **One (1) parts washer, identified as PWM1, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack**
- (fy) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (sz) Paved and unpaved roads and parking lots with public access. (326 IAC 6-4)
- (taa) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations as well as a quality control Wheelabrator shot blaster. (326 IAC 6-3-2)
- (tbb) Emergency generators as follows: diesel generators not exceeding 1,600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower.
- (vcc) Farm operations.
- (wdd) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (xee) Ink jet operations (14 stations) have the potential to emit MEK and methanol (HAPs) emissions at a total of 0.229 tons per year.
- (yff) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.
- (zgg) Any operation using aqueous solutions containing less than 1 percent by weight of VOCs excluding HAPs.
- (aahh) Noncontact cooling tower systems with either of the following: forced and induced draft cooling tower system not regulated under a NESHAP.
- (bbii) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (eejj) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (dakk) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (eell) One (1) automated deflash machine, known as AD10, equipped with a self-contained aerocology unit (dust collector), known as ADA10, exhausting inside the building, installed in 1999, capacity: 1,200 pounds of carbon steel rods per hour.
- (ffmm) Thirty-six (36) rework sanders, known as G1 through G36, equipped with eleven (11) aerocology units (dust collectors), installed in 1999, capacity: 500 pounds of carbon steel rods per hour, each.

(c) New Condition D.3.5:

New Condition D.3.5 shall be added as follows to ensure that if the actual VOC emissions from the parts washer exceed their respective applicable levels of 15 lb/day, the Permittee obtains approval from the OAQ prior to making the changes.

D.3.5 VOC, Parts Washer PWM1

Should the Permittee make any changes or modifications which would increase the actual VOC emissions for parts washer PWM1 to greater than or equal to fifteen (15) pounds per day, the Permittee shall obtain prior approval from IDEM, OAQ and shall be subject to the requirements of 326 IAC 8-3.

All subsequent conditions shall be renumbered and the Table of Contents adjusted accordingly to reflect the condition changes.

(d) New Condition D.3.8:

New Condition D.3.8 shall be added as follows to include the recordkeeping requirements that will be used to document that the actual VOC emissions are less than the applicable rate of fifteen (15) pounds per day.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.8 Record Keeping Requirements

To document that the actual VOC emissions of Condition D.3.5 are less than the applicable level of fifteen (15) pounds per day, the Permittee shall maintain records of the amount and VOC content of the worst case parts washing solution used. Said records shall include all purchase orders and invoices and the material safety data sheets (MSDS) for the worst case parts washing solution used at parts washer PWM1.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

The Table of Contents adjusted accordingly to reflect the condition changes.

Conclusion

The operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Administrative Amendment No. 079-20049-00014.