



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

December 16, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: NTN Driveshaft, Inc. / 005-19905-00066

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 9/16/03



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

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December 16, 2004

Mr. Bill Miller
NTN Driveshaft, Inc.
8251 South International Drive
Columbus, Indiana 47201

Re: 005-19905-00066
Notice-only change to
MSOP 005-14340-00066

Dear Mr. Miller:

NTN Driveshaft, Inc. was issued a Minor Source Operating Permit September 16, 2003 for a stationary source manufacturing constant velocity joints (CVJ) driveshaft parts and related components located at 8251 South International Drive, Columbus, Indiana 47201. A letter notifying the Office of Air Quality of notice-only changes to the permit was received on November 19, 2004. The source identified typographical errors in the permit and requested that the permit be updated to include additional emission units with potential emissions of regulated criteria pollutants and hazardous air pollutants of less than the exemption threshold levels specified in 326 IAC 2-1.1-3. Pursuant to the provisions of 326 IAC 2-6.1-6, Sections A.2, D.2, and D.3.1 of the permit are hereby revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (g) Emission units with PM and PM10 emissions less than five (5) tons per year, SO₂, NO_x, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, and lead emissions less than two-tenths (0.2) tons per year:
 - (2) One (1) My shot blaster 1, identified as EU24, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 462 pounds of ~~sand~~**steel** shot per hour, with an integral fabric filter, and exhausting to stack My 1;
 - (3) One (1) My shot blaster 2, identified as EU25, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 377 pounds of ~~sand~~**steel** shot per hour, with an integral fabric filter, and exhausting to stack My 2;
- (k) Five (5) rust preventative coating lines RP#1 through 5 (identified as EU54, 55, 56, 57, and 58), each with a maximum rated capacity of 180 steel CVJ units per hour, **utilizing a non-VOC containing cleaner (Gillite 0650)**, and exhausting to stacks RP1, RP2, RP3, RP4, and RP5;
- (l) **Two (2) friction welding lines, designated as Friction Welding Line East located in the CVJ East plant and Friction Welding Line West located in the CVJ West plant, utilizing frictional heat and pressure to join components together, each equipped with a parts cleaning station that utilizes a non-VOC containing cleaner (Gillite 0650);**

- (m) **Emission units associated with trivial activities including hand held equipment utilized for buffing, cutting, drilling, grinding, machining, polishing, routing, sanding, sawing, turning, and for application of non-VOC containing hot melt adhesives:**
 - (1) **One portable dry blast machine with enclosure using glass beads;**
 - (2) **One belt sander;**
 - (3) **Two drills; and**
 - (4) **One lathe;**
- (n) **Emission units associated with insignificant activities:**
 - (1) **Machining where an aqueous cutting coolant continuously floods the machining interface;**
 - (2) **One brazing unit to apply a silver brazing plate; and**
 - (3) **One spot welder;**

SECTION D.2

FACILITY OPERATION CONDITIONS

Emission Unit Description: Shot Blasters

- (g) Emission units with PM and PM10 emissions less than five (5) tons per year, SO₂, NO_x, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, and lead emissions less than two-tenths (0.2) tons per year:
 - (1) One (1) Hub shot blaster, identified as EU4 (F2), constructed in 1996, with a rated capacity of 1,200 steel CVJ units per hour and 60,847 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack F2;
 - (2) One (1) My shot blaster 1, identified as EU24, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 462 pounds of ~~sand~~-steel shot per hour, with an integral fabric filter, and exhausting to stack My 1;
 - (3) One (1) My shot blaster 2, identified as EU25, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 377 pounds of ~~sand~~-steel shot per hour, with an integral fabric filter, and exhausting to stack My 2;
 - (17) Two (2) shot blasters, identified as CVJ #1 and CVJ #2, constructed in 2003, with a maximum throughput rate of 14 steel CVJ units per hour and a maximum of 720 pounds of steel shot per hour, controlled by an integral fabric filter, and exhausting to stacks CVJSB1 and CVJSB2, respectively.
 - (18) Three (3) shot blasting units (identified as EU51, 52, and 53), each with a maximum rated capacity of 14 steel CVJ units per hour and 720 pounds of steel shot per hour, using three (3) baghouses that are integral to control, and exhausting at stacks CVJSB3 through CVJSB5.

(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 2-6.1-5(a)(1)]

D.3.1 Particulate Emissions Limitations [326 IAC 6-3-2]

- (b) Particulate from the spray booths associated with heat treat lines BJ1(EU5), BJ2(EU6), TJ4(EU9), TJ6(EU10), and HT25(EU15) shall be controlled by dry particulate filters **(for BJ1(EU5)) and by water curtains (for BJ2(EU6), TJ4(EU9), TJ6(EU10), and HT25(EU15))**, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this letter 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 Nathan C. Bell, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 317-234-3350 or in Indiana at 1-800-451-6027 (ext 43350).

Sincerely,

Original signed by

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ncb

Attachments

cc: File - Bartholomew County
U.S. EPA, Region V
Bartholomew County Health Department
Air Compliance Section Inspector - Vaughn Ison
Compliance Data Section - Jennifer Dorn
Administrative and Development
Technical Support and Modeling - Michelle Boner



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MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**NTN Driveshaft, Inc.
 8251 S. International Dr.
 Columbus, Indiana 47201**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

| | |
|---|--|
| Operation Permit No.: MSOP 005-14340-00066 | |
| Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality | Issuance Date: September 16, 2003 Expiration Date: September 16, 2008 |
| First Significant Permit Revision No.: 005-18032-00066 | Issuance Date: February 5, 2004 |
| First Notice Only Change No.: 005-18660-00066 | Issuance Date: April 6, 2004 |
| Second Notice Only Change No.: 005-19905-00066 | Pages Effected: 5, 9, 9a, 22, 28 |
| Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality | Issuance Date: December 16, 2004 |

- (g) Emission units with PM and PM10 emissions less than five (5) tons per year, SO₂, NO_x, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, and lead emissions less than two-tenths (0.2) tons per year:
- (1) One (1) Hub shot blaster, identified as EU4 (F2), constructed in 1996, with a rated capacity of 1,200 steel CVJ units per hour and 60,847 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack F2;
 - (2) One (1) My shot blaster 1, identified as EU24, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 462 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack My 1;
 - (3) One (1) My shot blaster 2, identified as EU25, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 377 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack My 2;
 - (4) One (1) heat treat line BJ1, identified as EU5, constructed in 1996, consisting of induction hardening, a spray paint booth, and a convection oven, all with a rated capacity of 280 steel CVJ units per hour, 0.15 gallons of paint per hour, and 0.10 gallons of quenchant per hour, using an oil mist collector to control particulate emissions from induction hardening and dry filters to control particulate emissions from the spray paint booth, and exhausting to stacks BJ1IH, BJ1SPB, and BJ1CO;
 - (5) One (1) heat treat line BJ2, identified as EU6, constructed in 1996, consisting of induction hardening, a spray paint booth, and a convection oven, all with a rated capacity of 300 steel CVJ units per hour, 0.16 gallons of paint per hour, and 0.11 gallons of quenchant per hour, using an oil mist collector to control particulate emissions from induction hardening and a water curtain to control particulate emissions from the spray paint booth, and exhausting to stacks BJ2IH, BJ2SPB, and BJ2CO;
 - (6) One (1) heat treat line TJ2, identified as EU7, constructed in 1996, consisting of induction hardening, a spray paint booth, and a convection oven, all with a rated capacity of 150 steel CVJ units per hour, 0.08 gallons of paint per hour, and 0.05 gallons of quenchant per hour, using an oil mist collector to control particulate emissions from induction hardening and dry filters to control particulate emissions from the spray paint booth, and exhausting to stacks TJ2IH, TJ2SPB, and TJ2CO;
 - (7) One (1) heat treat line TJ3, identified as EU8, constructed in 1996, consisting of induction hardening, a spray paint booth, and a convection oven, with a rated capacity of 150 steel CVJ units per hour, 0.08 gallons of paint per hour, and 0.05 gallons of quenchant per hour, using an oil mist collector to control particulate emissions from induction hardening and dry filters to control particulate emissions from the spray paint booth, and exhausting to stacks TJ3IH, TJ3SPB, and TJ3CO;
 - (8) One (1) heat treat line TJ4, identified as EU9, constructed in 1997, consisting of induction hardening, a spray paint booth, and a convection oven, with a rated capacity of 270 steel CVJ units per hour, 0.14 gallons of paint per hour, and 0.10 gallons of quenchant per hour, using an oil mist collector to control particulate emissions from induction hardening and a water curtain to control particulate emissions from the spray paint booth, and exhausting to stacks TJ4IH, TJ4SPB, and TJ4CO;

- (11) One (1) natural gas-fired boiler, identified as B11, constructed in 1989, with a rated capacity of 1.98 million British thermal units per hour, and exhausting to stack B11;
 - (12) One (1) natural gas-fired boiler, identified as B12, constructed in 2002, with a rated capacity of 0.2 million British thermal units per hour, and exhausting to stack B12;
 - (13) Seventy-two (72) natural gas-fired space heaters, identified as UH1-72, with a combined rated maximum capacity of 7.71 million British thermal units per hour;
 - (14) Fifty-eight (58) natural gas-fired roof top air handlers, identified as RTAH1-58, with a combined rated maximum capacity of 24.63 million British thermal units per hour (note: each unit has a maximum capacity less than 10 million British thermal units per hour);
 - (15) Thirteen (13) natural gas-fired air make-up units, identified as MAU1-13, with a combined rated maximum capacity of 23.15 million British thermal units per hour (note: each unit has a maximum capacity less than 10 million British thermal units per hour);
 - (16) Three (3) natural gas-fired HVAC units, identified as A/C1-3, with a combined rated maximum capacity of 1.68 million British thermal units per hour;
 - (17) Twenty-two (22) natural gas-fired miscellaneous units, identified as WH, with a combined rated maximum capacity of 4.15 million British thermal units per hour;
 - (18) One (1) natural gas-fired boiler (identified as boiler B13), with a maximum heat input capacity of 4.20 MMBtu per hour, and exhausting at stack B13;
 - (19) Natural gas-fired combustion units consisting of unit space heaters, roof top air handlers, and air make-up units, with a combined heat input capacity of 101 MMBtu per hour;
- (j) Three (3) CVJ forging presses #3, #4 and #5 (identified as EU28, 29, and 30), each with a maximum rated capacity of 12,00 steel billets per hour and 3.84 gallons of graphite lubricant per hour, using a venturi scrubber with an oil mist elimination chamber as control, and exhausting at stacks F5, F6 and F7;
 - (k) Five (5) rust preventative coating lines RP#1 through 5 (identified as EU54, 55, 56, 57, and 58), each with a maximum rated capacity of 180 steel CVJ units per hour, utilizing a non-VOC containing cleaner (Gillite 0650), and exhausting to stacks RP1, RP2, RP3, RP4, and RP5;
 - (l) Two (2) friction welding lines, designated as Friction Welding Line East located in the CVJ East plant and Friction Welding Line West located in the CVJ West plant, utilizing frictional heat and pressure to join components together, each equipped with a parts cleaning station that utilizes a non-VOC containing cleaner (Gillite 0650);
 - (m) Emission units associated with trivial activities including hand held equipment utilized for buffing, cutting, drilling, grinding, machining, polishing, routing, sanding, sawing, turning, and for application of non-VOC containing hot melt adhesives:
 - (1) One portable dry blast machine with enclosure using glass beads;
 - (2) One belt sander;

- (3) Two drills; and
- (4) One lathe;
- (n) Emission units associated with insignificant activities:
 - (1) Machining where an aqueous cutting coolant continuously floods the machining interface;
 - (2) One brazing unit to apply a silver brazing plate; and
 - (3) One spot welder;

A.3 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 an affected source under Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3);
- (c) 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.2

FACILITY OPERATION CONDITIONS

Facility Description: Shot Blasters

- (g) Emission units with PM and PM10 emissions less than five (5) tons per year, SO₂, NO_x, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, and lead emissions less than two-tenths (0.2) tons per year:
- (1) One (1) Hub shot blaster, identified as EU4 (F2), constructed in 1996, with a rated capacity of 1,200 steel CVJ units per hour and 60,847 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack F2;
 - (2) One (1) My shot blaster 1, identified as EU24, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 462 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack My 1;
 - (3) One (1) My shot blaster 2, identified as EU25, constructed in 1996, with a rated capacity of 120 steel CVJ units per hour and 377 pounds of steel shot per hour, with an integral fabric filter, and exhausting to stack My 2;
 - (17) Two (2) shot blasters, identified as CVJ #1 and CVJ #2, constructed in 2003, with a maximum throughput rate of 14 steel CVJ units per hour and a maximum of 720 pounds of steel shot per hour, controlled by an integral fabric filter, and exhausting to stacks CVJSB1 and CVJSB2, respectively.
 - (18) Three (3) shot blasting units (identified as EU51, 52, and 53), each with a maximum rated capacity of 14 steel CVJ units per hour and 720 pounds of steel shot per hour, using three (3) baghouses that are integral to control, and exhausting at stacks CVJSB3 through CVJSB5.

(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 2-6.1-5(a)(1)]

D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of the three (3) shot blasting units (identified as EU51, 52, and 53) shall not each exceed 2.07 pounds per hour when operating at a process weight rate of 720 pounds per hour. The pounds per hour limitation was calculated using 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

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control device.

| Stack ID (Facility) | Process Weight Rate (lb/hr) | Process Weight Rate (ton/hr) | Particulate Emission Limit (lb/hr) |
|---|-----------------------------|------------------------------|------------------------------------|
| Each of the twelve (12) emission units TJ6IH (EU10), HT26, HT27, HT28, HT29, HT30, HT31, HT32, HT33, HT34, HT35, and HT36 | 257 | 0.13 | 1.04 |
| HT21IH (EU11) | 225 | 0.11 | 0.95 |
| HT22IH (EU12) | 225 | 0.11 | 0.95 |
| HT23IH (EU13) | 180 | 0.09 | 0.82 |
| HT24IH (EU14) | 225 | 0.11 | 0.95 |
| HT25IH (EU15) | 257 | 0.13 | 1.04 |
| Each of two Bonderizing Line (EU22 and EU31) | 11,340 | 5.67 | 13.11 |

These 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:

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

- (b) Particulate from the spray booths associated with heat treat lines BJ1(EU5), BJ2(EU6), TJ4(EU9), TJ6(EU10), and HT25(EU15) shall be controlled by dry particulate filters (for BJ1(EU5)) and by water curtains (for BJ2(EU6), TJ4(EU9), TJ6(EU10), and HT25(EU15)), and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such an observation:

- (1) Repair control device so that no overspray is visible detectable at the exhaust or accumulates on the ground.
- (2) Operate equipment so that no overspray is visible detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

- (c) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from the quality assurance process (identified as QA), not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than one hundred (100) pounds per hour and the methods in 326 IAC 6-3-21(b) through (d) do not apply shall not exceed 0.551 pounds per hour. This condition is not federally enforceable.