



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
SHELBY COUNTY**

CERTIFIED MAIL

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov.
Center

Application No: 05-11350

DATE: 6/19/2001

Honda of America Mfg Inc
Paul Huwer
12500 MERANDA RD
ANNA, OH 453029699

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

SWDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 05-11350

Application Number: 05-11350
APS Premise Number: 0575000174
Permit Fee: **\$2400**
Name of Facility: Honda of America Mfg Inc
Person to Contact: Paul Huwer
Address: 12500 MERANDA RD
ANNA, OH 453029699

Location of proposed air contaminant source(s) [emissions unit(s)]:

12500 Meranda Rd
Anna, Ohio

Description of proposed emissions unit(s):

line 4 holding/pouring system.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.10 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are

required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

B. State Only Enforceable Permit To Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

4. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete

within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

6. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

7. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

8. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other

emissions unit(s).

9. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

10. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	10.1
NOx	0.8
CO	0.8
OC	0.013
SOx	0.0014

Honda of America Mfg Inc
PTI Application: **05-11350**
Issued: 6/19/2001

Facility ID: **0575000174**

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

The particulate emissions from baghouse BH-2 (old BH-50) serving Ferrous Casting Line #4 (emissions units P078, P079, P080, P081, P082 and P083) shall not exceed 0.004 grain per actual cubic foot of the total exhaust gases.

The permittee reserves the right to direct the particulate emissions from any other existing or new emissions units (once permitted and thereby considered existing) to baghouse #2 (BH-2) with the understanding that emissions will not exceed 0.004 grain per actual cubic foot of the total exhaust gases, and total flow directed to fabric filter BH-2 will not exceed 65,000 acfm(\pm 5% variability).

Uncontrolled limits for Ferrous Casting Line #4 are based on iron throughput of 2.2 tons per hour and 8268 tons per year.

This right is allowed as long as the permittee does not trigger the modification definition pursuant to Ohio Administrative Code (OAC) rule 3745-31-01 and submits information to the Ohio EPA within thirty days after documenting the change(s). This information would include, but is not limited to, the following: a description of which emissions units were redirected to which baghouse, and calculations supporting the permittee's contention that the redirection of existing emissions units would not trigger the modification definition pursuant to Ohio Administrative Code (OAC) rule 3745-31-01.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P078 - Ferrous Casting Line # 4 Spin Cast Machine #1	OAC rule 3745-31-05(A)(3)
	OAC Rule 3745-31-05(D)
	OAC 3745-17-07 (A)(1)
	OAC rule 3745-17-11(B)(1)

Issued

Emissions Unit ID: P078

Applicable Emissions
Limitations/Control
Measures

Total Controlled PM emissions not to exceed 2.22 lb per hr from Ferrous Casting Line #4 baghouse stack.

0.004 gr./dscf from the baghouse stack.

0% Opacity, as a six minute average, from the baghouse stack.

Total Combined Uncontrolled PM Emissions from Spin Cast Machine #1 and Spin Cast Machine #2 not to exceed 0.0028 tons per year.

Total Uncontrolled PM Emissions from Spin Cast Machine #1 not to exceed 0.00073 lb per hour.

Emissions from natural gas usage in the Spin Cast Machine #1 mold pre-heat burner shall not exceed:

- 0.1 lb NOx/hour
- 0.4 tons NOx/year
- 0.1 lb CO/hour
- 0.4 tons CO/year
- 0.0041 lb OC/hour
- 0.013 tons OC/year
- 0.00045 lb SOx/hour
- 0.0014 tons SOx/year

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line

#4.

Total Controlled PM emissions not to exceed 9.71 tons per rolling 12-months from Ferrous Casting Line #4 baghouse stack.

The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3)

The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3)

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the following:

- i. the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse and
- ii. compliance with the limits in term A.I.1.

2.b This emission unit shall use only detergent based or earthen based mold release agents.

II. Operational Restrictions

- 1. The maximum throughput for Spin Cast Machine #1 shall not exceed 1.1 tons of iron per hour and the maximum combined throughput for Spin Cast Machine #1 and Spin Cast Machine #2 shall not exceed 8268 tons of iron rolling, 12- months.
- 2. The pressure drop across the baghouse shall be maintained within the range of 1 to 15 inches of water while any emission unit controlled by the baghouse is in operation. The exception is for the first 45 days following a change of at least 50% of the fabric bags. During that time, the pressure drop shall be maintained below 15 inches of water while any emission unit controlled by the baghouse is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. The total iron throughput for each month.
 - b. The rolling, 12-month summation of the iron throughput.

(No hourly recordkeeping required. 1.1 tons of iron per hour represents the maximum designed capacity of the equipment.)

In order to ensure federal enforceability, for the first 12 calendar months of operation, Honda of America shall not exceed the following iron throughput for the specific time period.

<u>Month</u>	<u>Total Allowable Tons of Iron Throughput</u>
1	689

1-2	1378
1-3	2067
1-4	2756
1-5	3445
1-6	4134
1-7	4823
1-8	5512
1-9	6201
1-10	6890
1-11	7579
1-12	8268

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit(s) is in operation. The monitoring equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once each operating day.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month iron throughput limitation.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the emission unit was in operation and the pressure drop across the baghouse did not comply with the allowable range specified in term A. II. 2.
3. These reports, as denoted in terms A.IV.1. and 2., are due by the date described in Part 1-General Terms and Conditions of the permit under section (A) (1).

V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

9.71 tons of Controlled PM per year, as a rolling 12-month summation from the baghouse stack for Ferrous Casting Line #4..

Applicable Compliance Method:

Compliance shall be assumed as long the 0.004 gr./dscf PM limit from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{MASER})(\text{AOH})(\text{CONV}) = 9.71 \text{ tons of PM per year}^{**}$$

where

MASER = the maximum allowable stack emission rate (2.22 lbs PM/hr.)

AOH = the actual operating hours

CONV = conversion factor (1 ton/2000 lbs.)

**Based on 8760 operating hours per year.

2. Emission Limitation:

2.22 lbs of Controlled PM/hour from the baghouse stack for Ferrous Casting Line #4.

Compliance shall be assumed as long as both the 0.004 gr./dscf PM limit from the baghouse stack and 0% Opacity, as a six minute average, from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{BFR}) \times (\text{AV}) \times (\text{ST} / \text{BET}) \times (\text{BEP} / \text{SP}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 2.22 \text{ tons of PM per year}$$

where

BFR = Baghouse Flow Rate (65,000 acfm)

AV = the air variability factor (105%)

ST = Standard Temperature (530 Rankine)

BET = Baghouse Exit Temperature (560 Rankine)

BEP = Baghouse Exit Temperature (14.69b/in²)

SP = Standard Pressure (14.69b/in²)

BEF = Baghouse Efficiency (0.004 grains/dscf)

TI = Time (60 minutes per hour)

CONV = conversion factor (1 lb = 7000 grains)

The permittee shall conduct, or have conducted, emission testing for the baghouse stack for

Issued: 6/19/2001

Ferrous Casting Line #4 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months of project completion and mass production start-up.
- b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

<u>Pollutant</u>	<u>Test Method</u>	<u>Location</u>
Particulate	Method 5	40 <u>CFR</u> Part 60, Appendix A

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit(s) operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit(s) and the testing procedures provide a valid characterization of the emissions from the emissions unit(s) and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

3. Emission Limitation:

Not to exceed 0.0028 tons of Uncontrolled PM emissions, as a rolling 12-month summation for Spin Cast Machine #1 and Spin Cast Machine #2.

Applicable Compliance Method:

Compliance shall be assumed as long as the combined maximum iron throughput rate for Spin Cast Machine #1 and Spin Cast Machine #2 per rolling 12-month summation is not exceeded. This is based on the recordkeeping requirements in term A.III. and the summation of the following calculations:

Process Emissions

$$(MMR) \times (PMER) \times (CONV) \times (SF) \times (1-CAP) = 0.0028 \text{ tons of PM per year}$$

where

MMR = the combined maximum metal rate (8268 tons per year)**

PMER=the PM Emission rate (0.33 lb PM/ton of metal)(Air Emissions from Permanent Mold Castings of Ductile Iron Pipe, Marvin D McKinley, Professor of chemical Engineering, University of Alabama, September 1994.)

CONV = conversion factor (1 ton/2000 lbs.)

SF= Safety Factor of 2

CAP = Control Device Capture Efficiency (99.9%)

and

Natural Gas Combustion

$$(BBTU) \times (1/BCONV) \times (PMEF) \times (1-CAP) \times (CONV) \times (HRS) = 0.00005 \text{ tons of PM per year}$$

where

BBTU = Burner BTU/hr (735,000 BTU/hr)

BCONV = BTU to scf conversion factor (1000 BTU/scf)

PMEF = PM Emission Factor (7.6 lb PM/10⁶ scf)(AP-42 Version 5. Table 1.4-2)

CAP = Control Device Capture Efficiency (99.9%)

CONV = Conversion Factor (1 ton/2000 lbs)

HRS = Operating Hours per year (8760 hours per year)

**As long as the 12-month combined maximum iron throughput limitation in term A.II. is not exceeded, compliance with this limitation is demonstrated.

4. Emission Limitation

0.00073 lbs of Uncontrolled PM emissions per hour as a summation from Spin Cast Machine #1.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate of 1.1 tons of iron per hour is not exceeded. This is based on both the record keeping requirements in term A.III. and the summation of the following calculations.

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Honda

PTI A₁

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Emissions Unit ID: P078

Process Emissions

$$(\text{MMR}) \times (\text{PMER}) \times (\text{SF}) \times (1-\text{CAP}) = 0.00073 \text{ lbs of PM per hour}$$

where

PMER=the PM Emission rate (0.33 lb PM/ton of metal)(Air Emissions from Permanent Mold Castings of Ductile Iron Pipe, Marvin D McKinley, Professor of chemical Engineering, University of Alabama, September 1994.)

MMR = the maximum metal rate (1.1 ton iron/hour)**

SF= Safety Factor of 2

CAP = Control Device Capture Efficiency (99.9%)

and

Natural Gas Combustion

$$(\text{BBTU}) \times (1/\text{BCONV}) \times (\text{PMEF}) \times (1-\text{CAP}) = 0.00001 \text{ lbs of PM per hour}$$

where

BBTU = Burner BTU/hr (735,000 BTU/hr)

BCONV = BTU to scf conversion factor (1000 BTU/scf)

PMEF = PM Emission Factor (7.6 lb PM/10⁶ scf)(AP-42 Version 5. Table 1.4-2)

CAP = Control Device Capture Efficiency (99.9%)

**This limit represents the maximum capacity of the Line # 4 Spin Cast Machine #1. Since this limit reflects the maximum throughput capacity of this source, no additional compliance determination is required.

5. Emission Limitation:

NO_x Emissions from Spin Cast Machine #1 shall not exceed 0.1 lb/hr and 0.4 ton/year per rolling 12 months, CO Emissions from Spin Cast Machine #1 shall not exceed 0.1 lbs/hr and 0.4 tons/year per rolling 12 months, OC emissions from Spin Cast Machine #1 shall not exceed 0.0041 lb/hr and 0.013 ton/year per rolling 12 months, and SO_x emissions from Spin Cast Machine #1 shall not exceed 0.0045 lb/hr and 0.0014 ton/year per rolling 12 months.

NO_x, CO, OC and SO_x Emissions are generated solely by the combustion of natural gas.

Applicable Compliance Method:

Issued: 6/19/2001

These limits represent the maximum capacity of the burners. These emission limitations were determined by multiplying the maximum natural gas usage from the burners by the emission factors for each pollutant (AP-42 Version 5, Table 1.4-2). Since these limits reflect the potential emissions of the burners, no additional compliance determination is required.

6. Emission Limitation:

0% opacity, as a six-minute average, from the baghouse stack.

Applicable Compliance Method:

Compliance shall be determined according to test method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60.

7. Emission Limitation:

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

Applicable Compliance Method:

40 CFR Part 60, Method 9, with opacity readings taken from any exit of the building.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P078 - Ferrous Casting Line # 4 Spin Cast Machine #1		

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P079 - Ferrous Casting Line # 4 Spin Cast Machine #2	OAC rule 3745-31-05(A)(3)
	OAC Rule 3745-31-05(D)
	OAC 3745-17-07 (A)(1)
	OAC rule 3745-17-11(B)(1)

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Applicable Emissions Limitations/Control Measures	0.0014 tons SOx/year
Total Controlled PM emissions not to exceed 2.22 lb per hr from Ferrous Casting Line #4 baghouse stack.	20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.
0.004 gr./dscf from the baghouse stack.	Total Controlled PM emissions not to exceed 9.71 tons per rolling 12-months from Ferrous Casting Line #4 baghouse stack.
0% Opacity, as a six minute average, from the baghouse stack.	The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3)
Total Combined Uncontrolled PM Emissions from Spin Cast Machine #1 and Spin Cast Machine #2 not to exceed 0.0028 tons per year.	The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3)
Total Uncontrolled PM Emissions from Spin Cast Machine #2 not to exceed 0.00073 lb per hour.	
Emissions from natural gas usage in the Spin Cast Machine #1 mold pre-heat burner shall not exceed:	
0.1 lb NOx/hour	
0.4 tons NOx/year	
0.1 lb CO/hour	
0.4 tons CO/year	
0.0041 lb OC/hour	
0.013 tons OC/year	
0.00045 lb SOx/hour	

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2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the following:

- i. the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse and
- ii. compliance with the limits in term A.I.1.

2.b This emission unit shall use only detergent-based or earthen-based mold release agents.

II. Operational Restrictions

- 1. The maximum throughput for Spin Cast Machine #2 shall not exceed 1.1 tons of iron per hour and the maximum combined throughput for Spin Cast Machine #1 and Spin Cast Machine #2 shall not exceed 8268 tons of iron rolling, 12- months.
- 2. The pressure drop across the baghouse shall be maintained within the range of 1 to 15 inches of water while any emission unit controlled by the baghouse is in operation. The exception is for the first 45 days following a change of at least 50% of the fabric bags. During that time, the pressure drop shall be maintained below 15 inches of water while any emission unit controlled by the baghouse is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. The total iron throughput for each month.
 - b. The rolling, 12-month summation of the iron throughput.

(No hourly recordkeeping required. 1.1 tons of iron per hour represents the maximum designed capacity of the equipment.)

In order to ensure federal enforceability, for the first 12 calendar months of operation, Honda of America shall not exceed the following iron throughput for the specific time period.

<u>Month</u>	<u>Total Allowable Tons of Iron Throughput</u>
1	689

1-2	1378
1-3	2067
1-4	2756
1-5	3445
1-6	4134
1-7	4823
1-8	5512
1-9	6201
1-10	6890
1-11	7579
1-12	8268

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit(s) is in operation. The monitoring equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once each operating day.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month iron throughput limitation.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the emission unit was in operation and the pressure drop across the baghouse did not comply with the allowable range specified in term A. II. 2.
3. These reports, as denoted in terms A.IV.1. and 2., are due by the date described in Part 1-General Terms and Conditions of the permit under section (A) (1).

V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

9.71 tons of Controlled PM per year, as a rolling 12-month summation from the baghouse stack for Ferrous Casting Line #4.

Applicable Compliance Method:

Compliance shall be assumed as long as the 0.004 gr./dscf PM limit from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{MASER})(\text{AOH})(\text{CONV}) = 9.71 \text{ tons of PM per year}^{**}$$

where

MASER = the maximum allowable stack emission rate (2.22 lbs PM/hr.)

AOH = the actual operating hours

CONV = conversion factor (1 ton/2000 lbs.)

**Based on 8760 operating hours per year.

2. Emission Limitation:

2.22 lbs of Controlled PM/hour from the baghouse stack for Ferrous Casting Line #4.

Compliance shall be assumed as long as both the 0.004 gr./dscf PM limit from the baghouse stack and 0% Opacity, as a six minute average, from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{BFR}) \times (\text{AV}) \times (\text{ST} / \text{BET}) \times (\text{BEP} / \text{SP}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 2.22 \text{ tons of PM per year}$$

where

BFR = Baghouse Flow Rate (65,000 acfm)

AV = the air variability factor (105%)

ST = Standard Temperature (530 Rankine)

BET = Baghouse Exit Temperature (560 Rankine)

BEP = Baghouse Exit Temperature (14.69b/in²)

SP = Standard Pressure (14.69b/in²)
 BEF = Baghouse Efficiency (0.004 grains/dscf)
 TI = Time (60 minutes per hour)
 CONV = conversion factor (1 lb = 7000 grains)

The permittee shall conduct, or have conducted, emission testing for the baghouse stack for Ferrous Casting Line #4 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months of project completion and mass production start-up.
- b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

<u>Pollutant</u>	<u>Test Method</u>	<u>Location</u>
Particulate	Method 5	40 <u>CFR</u> Part 60, Appendix A

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit(s) operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit(s) and the testing procedures provide a valid characterization of the emissions from the emissions unit(s) and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District

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Office or local air agency within 30 days following completion of the test(s).

3. Emission Limitation:

Not to exceed 0.0028 tons of Uncontrolled PM emissions, as a rolling 12-month summation for Spin Cast Machine #1 and Spin Cast Machine #2.

Applicable Compliance Method:

Compliance shall be assumed as long as the combined maximum iron throughput rate for Spin Cast Machine #1 and Spin Cast Machine #2 per rolling 12-month summation is not exceeded. This is based on the recordkeeping requirements in term A.III. and the summation of the following calculations:

Process Emissions

$(MMR) \times (PMER) \times (CONV) \times (SF) \times (1-CAP) = 0.0028$ tons of PM per year
 where

MMR = the combined maximum metal rate (8268 tons per year)**

PMER=the PM Emission rate (0.33 lb PM/ton of metal)(Air Emissions from Permanent Mold Castings of Ductile Iron Pipe, Marvin D McKinley, Professor of chemical Engineering, University of Alabama, September 1994.)

CONV = conversion factor (1 ton/2000 lbs.)

SF= Safety Factor of 2

CAP = Control Device Capture Efficiency (99.9%)

and

Natural Gas Combustion

$(BBTU) \times (1/BCONV) \times (PMEF) \times (1-CAP) \times (CONV) \times (HRS) = 0.00005$ tons of PM per year

where

BBTU = Burner BTU/hr (735,000 BTU/hr)

BCONV = BTU to scf conversion factor (1000 BTU/scf)

PMEF = PM Emission Factor (7.6 lb PM/10⁶ scf)(AP-42 Version 5. Table 1.4-2)

CAP = Control Device Capture Efficiency (99.9%)

CONV = Conversion Factor (1 ton/2000 lbs)

HRS = Operating Hours per year (8760 hours per year)

**As long as the 12-month combined maximum iron throughput limitation in term A.II. is not exceeded, compliance with this limitation is demonstrated.

4. Emission Limitation

0.00073 lbs of Uncontrolled PM emissions per hour as a summation from Spin Cast Machine #2.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate of 1.1 tons of iron per hour is not exceeded. This is based on both the record keeping requirements in term A.III. and the summation of the following calculations.

Process Emissions

$$(\text{MMR}) \times (\text{PMER}) \times (\text{SF}) \times (1-\text{CAP}) = 0.00073 \text{ lbs of PM per hour}$$

where

PMER=the PM Emission rate (0.33 lb PM/ton of metal)(Air Emissions from Permanent Mold Castings of Ductile Iron Pipe, Marvin D McKinley, Professor of chemical Engineering, University of Alabama, September 1994.)

MMR = the maximum metal rate (1.1 ton iron/hour)**

SF= Safety Factor of 2

CAP = Control Device Capture Efficiency (99.9%)

and

Natural Gas Combustion

$$(\text{BBTU}) \times (1/\text{BCONV}) \times (\text{PMEF}) \times (1-\text{CAP}) = 0.00001 \text{ lbs of PM per hour}$$

where

BBTU = Burner BTU/hr (735,000 BTU/hr)

BCONV = BTU to scf conversion factor (1000 BTU/scf)

PMEF = PM Emission Factor (7.6 lb PM/10⁶ scf)(AP-42 Version 5. Table 1.4-2)

CAP = Control Device Capture Efficiency (99.9%)

**This limit represents the maximum capacity of the Line # 4 Spin Cast Machine #2. Since this limit reflects the maximum throughput capacity of this source, no additional compliance determination is required.

5. Emission Limitation:

NO_x Emissions from Spin Cast Machine #2 shall not exceed 0.1 lb/hr and 0.4 ton/year per rolling 12 months, CO Emissions from Spin Cast Machine #2 shall not exceed 0.1 lbs/hr and 0.4 tons/year per rolling 12 months, OC emissions from Spin Cast Machine #2 shall not exceed 0.0041 lb/hr and 0.013 ton/year per rolling 12 months, and SO_x emissions from Spin Cast

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Machine #2 shall not exceed 0.0045 lb/hr and 0.0014 ton/year per rolling 12 months.

NO_x, CO, OC and SO_x Emissions are generated solely by the combustion of natural gas.

Applicable Compliance Method:

These limits represent the maximum capacity of the burners. These emission limitations were determined by multiplying the maximum natural gas usage from the burners by the emission factors for each pollutant (AP-42 Version 5, Table 1.4-2). The PM emissions were calculated using a 99.9% control device capture efficiency. Since these limits reflect the maximum potential emissions of the burners, no additional compliance determination is required.

6. Emission Limitation:

0% opacity, as a six-minute average, from the baghouse stack.

Applicable Compliance Method:

Compliance shall be determined according to test method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60.

7. Emission Limitation:

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

Applicable Compliance Method:

40 CFR Part 60, Method 9, with opacity readings taken from any exit of the building.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P079 - Ferrous Casting Line # 4 Spin Cast Machine #2		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P080 - Ferrous Casting Line # 4 Shotblast Machine	OAC rule 3745-31-05(A)(3)	OAC 3745-17-07 (A)(1)
		OAC rule 3745-17-11(B)(1)
	OAC Rule 3745-31-05(D)	

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Applicable Emissions
Limitations/Control
Measures

rule 3745-31-05(A)(3)

Total Controlled PM emissions not to exceed 2.22 lb per hr from Ferrous Casting Line #4 baghouse stack.

The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3)

0.004 gr./dscf from the baghouse stack.

0% Opacity, as a six minute average, from the baghouse stack.

Total Uncontrolled PM Emissions from Ferrous Casting Line #4 Shotblast Machine not to exceed 0.02 tons per year.

Total Uncontrolled PM Emissions from Ferrous Casting Line #4 Shotblast Machine not to exceed 0.011 lb per hour.

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

Total Controlled PM emissions not to exceed 9.71 tons per rolling 12-months from Ferrous Casting Line #4 baghouse stack.

The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC

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2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the following:

- i. the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse and
- ii. compliance with the limits in term A.I.1.

II. Operational Restrictions

- 1. The maximum throughput for Ferrous Casting Line #4 shall not exceed 2.2 tons of iron per hour and 8268 tons of iron per rolling, 12- months.
- 2. The pressure drop across the baghouse shall be maintained within the range of 1 to 15 inches of water while any emission unit controlled by the baghouse is in operation. The exception is for the first 45 days following a change of at least 50% of the fabric bags. During that time, the pressure drop shall be maintained below 15 inches of water while any emission unit controlled by the baghouse is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. The total iron throughput for each month.
 - b. The rolling, 12-month summation of the iron throughput.

(No hourly recordkeeping required. 2.2 tons of iron per hour represents the maximum designed capacity of the equipment.)

In order to ensure federal enforceability, for the first 12 calendar months of operation, Honda of America shall not exceed the following iron throughput for the specific time period.

<u>Month</u>	<u>Total Allowable Tons of Iron Throughput</u>
1	689
1-2	1378
1-3	2067
1-4	2756

1-5	3445
1-6	4134
1-7	4823
1-8	5512
1-9	6201
1-10	6890
1-11	7579
1-12	8268

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit(s) is in operation. The monitoring equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once each operating day.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month iron throughput limitation.
- The permittee shall submit deviation (excursion) reports that identify all periods of time during which the emission unit was in operation and the pressure drop across the baghouse did not comply with the allowable range specified in term A. II. 2.
- These reports, as denoted in terms A.IV.1. and 2., are due by the date described in Part 1-General Terms and Conditions of the permit under section (A) (1).

V. Testing Requirements

- Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

- Emission Limitation:

9.71 tons of Controlled PM per year, as a rolling 12-month summation from the baghouse stack for Ferrous Casting Line #4..

Applicable Compliance Method:

Compliance shall be assumed as long the 0.004 gr./dscf PM limit from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following

calculation:

$$(\text{MASER})(\text{AOH})(\text{CONV}) = 9.71 \text{ tons of PM per year}$$

where

MASER = the maximum allowable stack emission rate (2.22 lbs PM/hr.)

AOH = the actual operating hours**

CONV = conversion factor (1 ton/2000 lbs.)

**Based on 8760 operating hours per year.

2. Emission Limitation:

2.22 lbs of Controlled PM/hour from the baghouse for Ferrous Casting Line #4.

Compliance shall be assumed as long as both the 0.004 gr./dscf PM limit from the baghouse stack and 0% Opacity, as a six minute average, from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{BFR}) \times (\text{AV}) \times (\text{ST} / \text{BET}) \times (\text{BEP} / \text{SP}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 2.22 \text{ tons of PM per year}$$

where

BFR = Baghouse Flow Rate (65,000 acfm)

AV = the air variability factor (105%)

ST = Standard Temperature (530 Rankine)

BET = Baghouse Exit Temperature (560 Rankine)

BEP = Baghouse Exit Temperature (14.69b/in²)

SP = Standard Pressure (14.69b/in²)

BEF = Baghouse Efficiency (0.004 grains/dscf)

TI = Time (60 minutes per hour)

CONV = conversion factor (1 lb = 7000 grains)

The permittee shall conduct, or have conducted, emission testing for the baghouse stack for Ferrous Casting Line #4 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months of project completion and mass production start-up.
- b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

<u>Pollutant</u>	<u>Test Method</u>	<u>Location</u>
Particulate	Method 5	40 <u>CFR</u> Part 60, Appendix A

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit(s) operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit(s) and the testing procedures provide a valid characterization of the emissions from the emissions unit(s) and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

3. Emission Limitation:

0.02 tons of Uncontrolled PM emissions, as a rolling 12-month summation from Ferrous Casting Line #4 Shotblast Machine.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate per rolling 12-month summation is not exceeded. This is based on the recordkeeping requirements in term A.III. and the following calculation:

$$(\text{MMR}) \times (\text{PMER}) \times (\text{CONV}) \times (1-\text{CAP}) \times (1-\text{BCAP}) = 0.02 \text{ tons of PM per year}$$

where

MMR = the maximum metal rate (8268 tons per year)**

PMER=the PM Emission rate (15.5 lb PM/ton of metal)(Modern Casting, January 1972)

CONV = conversion factor (1 ton/2000 lbs.)

CAP = Control Device Capture Efficiency (99.9%)

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BCAP = Building Capture Efficiency (70%) (April 10, 1998 letter to Ironton Iron Inc.
from Stephen Giles, Director of Portsmouth Local Air Agency)

**As long as the 12-month maximum iron throughput limitation in term A.II. is not
exceeded, compliance with this limitation is demonstrated.

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4. Emission Limitation

0.011 lbs of Uncontrolled PM emissions per hour as a summation from Ferrous Casting Line #4 Shotblast Machine.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate of 2.2 tons of iron per hour is not exceeded. This is based on both the record keeping requirements in term A.III. and the following calculation.

$$(MMR) \times (PMER) \times (1-CAP) \times (1-BCAP) = 0.011 \text{ lbs of PM per hour}$$

where

MMR = the maximum metal rate (2.2 ton iron/hour)**

PMER=the PM Emission rate (15.5 lb PM/ton of metal)(Modern Casting, January 1972)

CAP = Control Device Capture Efficiency (99.9%)

BCAP = Building Capture Efficiency (70%) (April 10,1998 letter to Ironton Iron Inc. from Stephen Giles, Director of Portsmouth Local Air Agency)

**This limit represents the maximum capacity of the Line # 4 Shotblast Machine. Since this limit reflects the maximum throughput capacity of this source, no additional compliance determination is required.

5. Emission Limitation:

0% opacity, as a six-minute average, from the baghouse stack.

Applicable Compliance Method:

Compliance shall be determined according to test method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60.

6. Emission Limitation:

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

Applicable Compliance Method:

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40 CFR Part 60, Method 9, with opacity readings taken from any exit of the building.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P080 - Ferrous Casting Line #4 Shotblast Machine		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P081 - Ferrous Casting Line #4 Tube Cutting Machine #1	OAC rule 3745-31-05(A)(3)	OAC 3745-17-07 (A)(1)
		OAC rule 3745-17-11(B)(1)
	OAC Rule 3745-31-05(D)	

Honda of America Mfg Inc
 PTI Application: 05 11250
Issued

Facility ID: 0575000174

Emissions Unit ID: P081

Applicable Emissions
 Limitations/Control
 Measures

Total Controlled PM
 emissions not to exceed 2.22
 lb per hr from Ferrous
 Casting Line #4 baghouse
 stack.

0.004 gr./dscf from the
 baghouse stack.

0% Opacity, as a six minute
 average, from the baghouse
 stack.

Total Combined
 Uncontrolled PM Emissions
 from Tube Cutting Machine
 #1 and Tube Cutting
 Machine #2 not to exceed
 0.003 tons per year.

Total Uncontrolled PM
 Emissions from Ferrous
 Casting Line #4 Tube
 Cutting Machine #1 not to
 exceed 0.0006 lb per hour.

20% Opacity, as a three
 minute average, from any
 building exhaust associated
 with Ferrous Casting Line
 #4.

Total Controlled PM
 emissions not to exceed 9.71
 tons per rolling 12-months
 from Ferrous Casting Line
 #4 baghouse stack

The emissions limitations
 specified by these rules are
 less stringent than the
 emission limitations

established pursuant to OAC rule
 3745-31-05(A)(3)

The emissions limitations specified
 by these rules are less stringent than
 the emission limitations established
 pursuant to OAC rule 3745-31-05
 (A)(3)

2. Additional Terms and Conditions**2.a** Compliance with OAC rule 3745-31-05 shall be demonstrated by the following:

- i. the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse and
- ii. compliance with the limits in term A.I.1.

II. Operational Restrictions

1. The maximum throughput for Tube Cutting Machine #1 shall not exceed 1.1 tons of iron per hour and the maximum combined throughput for Tube Cutting Machine #1 and Tube Cutting Machine #2 shall not exceed 8268 tons of iron rolling, 12- months.
2. The pressure drop across the baghouse shall be maintained within the range of 1 to 15 inches of water while any emission unit controlled by the baghouse is in operation. The exception is for the first 45 days following a change of at least 50% of the fabric bags. During that time, the pressure drop shall be maintained below 15 inches of water while any emission unit controlled by the baghouse is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. The total iron throughput for each month.
 - b. The rolling, 12-month summation of the iron throughput.

(No hourly recordkeeping required. 1.1 tons of iron per hour represents the maximum designed capacity of the equipment.)

In order to ensure federal enforceability, for the first 12 calendar months of operation, Honda of America shall not exceed the following iron throughput for the specific time period.

<u>Month</u>	<u>Total Allowable Tons of Iron Throughput</u>
1	689
1-2	1378
1-3	2067
1-4	2756
1-5	3445
1-6	4134
1-7	4823
1-8	5512
1-9	6201
1-10	6890
1-11	7579
1-12	8268

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit(s) is in operation. The monitoring equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once each operating day.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month iron throughput limitation.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the emission unit was in operation and the pressure drop across the baghouse did not comply with the allowable range specified in term A. II. 2.
3. These reports, as denoted in terms A.IV.1. and 2., are due by the date described in Part 1-General Terms and Conditions of the permit under section (A) (1).

V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

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Issued

Facility ID: **0575000174**

Emissions Unit ID: P081

9.71 tons of Controlled PM per year, as a rolling 12-month summation from the baghouse stack for Ferrous Casting Line #4..

Applicable Compliance Method:

Compliance shall be assumed as long the 0.004 gr./dscf PM limit from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{MASER})(\text{AOH})(\text{CONV}) = 9.71 \text{ tons of PM per year}$$

where

MASER = the maximum allowable stack emission rate (2.22 lbs PM/hr.)

AOH = the actual operating hours**

CONV = conversion factor (1 ton/2000 lbs.)

**Based on 8760 operating hours per year.

2. Emission Limitation:

2.22 lbs of Controlled PM/hour from the baghouse stack for Ferrous Casting Line #4.

Compliance shall be assumed as long as both the 0.004 gr./dscf PM limit from the baghouse stack and 0% Opacity, as a six minute average, from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{BFR}) \times (\text{AV}) \times (\text{ST} / \text{BET}) \times (\text{BEP} / \text{SP}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 2.22 \text{ tons of PM per year}$$

where

BFR = Baghouse Flow Rate (65,000 acfm)

AV = the air variability factor (105%)

ST = Standard Temperature (530 Rankine)

BET = Baghouse Exit Temperature (560 Rankine)

BEP = Baghouse Exit Temperature (14.69b/in²)

SP = Standard Pressure (14.69b/in²)

BEF = Baghouse Efficiency (0.004 grains/dscf)

TI = Time (60 minutes per hour)

CONV = conversion factor (1 lb = 7000 grains)

The permittee shall conduct, or have conducted, emission testing for the baghouse stack for Ferrous Casting Line #4 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months of project completion and mass production start-up.

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- b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
- | <u>Pollutant</u> | <u>Test Method</u> | <u>Location</u> |
|------------------|--------------------|----------------------------|
| Particulate | Method 5 | 40 CFR Part 60, Appendix A |
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit(s) operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit(s) and the testing procedures provide a valid characterization of the emissions from the emissions unit(s) and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

3. Emission Limitation:

Not to exceed 0.003 tons of Uncontrolled PM emissions, as a rolling 12-month summation for Tube Cutting Machine #1 and Tube Cutting Machine #2.

Applicable Compliance Method:

Compliance shall be assumed as long as the combined maximum iron throughput rate for Tube Cutting Machine #1 and Tube Cutting Machine #2 per rolling 12-month summation is not exceeded. This is based on the recordkeeping requirements in term A.III. and the following calculation:

$$(MMR) \times (PMER) \times (CONV) \times (1-CAP) \times (1-BCAP) = 0.003 \text{ tons of PM per year}$$

where

MMR = the maximum metal rate (8268 tons per year)**

PMER=the PM Emission rate (1.7 lb PM/ton of metal)(SCC ID 3-04-003-40)

CONV = conversion factor (1 ton/2000 lbs.)

CAP = Control Device Capture Efficiency (99.9%)

BCAP = Building Capture Efficiency (70%) (April 10,1998 letter to Ironton Iron Inc. from Stephen Giles, Director of Portsmouth Local Air Agency)

**As long as the 12-month maximum iron throughput limitation in term A.II. is not exceeded, compliance with this limitation is demonstrated.

4. Emission Limitation

0.0006 lbs of Uncontrolled PM emissions per hour as a summation from Tube Cutting Machine #1.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate of 1.1 tons of iron per hour is not exceeded. This is based on both the record keeping requirements in term A.III. and the following calculation.

$$(MMR) \times (PMER) \times (1-CAP) \times (1-BCAP) = 0.0006 \text{ lbs of PM per hour}$$

where

MMR = the maximum metal rate (1.1 ton iron/hour)**

PMER=the PM Emission rate (1.7 lb PM/ton of metal)(SCC ID 3-04-003-40)

CAP = Control Device Capture Efficiency (99.9%)

BCAP = Building Capture Efficiency (70%) (April 10,1998 letter to Ironton Iron Inc. from Stephen Giles, Director of Portsmouth Local Air Agency)

**This limit represents the maximum capacity of the Line # 4 Tube Cutting Machine #1. Since this limit reflects the maximum throughput capacity of this source, no additional compliance determination is required.

5. Emission Limitation:

0% opacity, as a six-minute average, from the baghouse stack.

Applicable Compliance Method:

Compliance shall be determined according to test method 9 as set forth in "Appendix on Test

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Methods" in 40 CFR Part 60.

6. Emission Limitation:

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

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Emissions Unit ID: P081

Applicable Compliance Method:

40 CFR Part 60, Method 9, with opacity readings taken from any exit of the building.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P081 - Ferrous Casting Line #4 Tube Cutting Machine #1		

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P082 - Ferrous Casting Line #4 Tube Cutting Machine #2	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(1)
	OAC Rule 3745-31-05(D)	
	OAC 3745-17-07 (A)(1)	

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Facility ID: **0575000174**

Emissions Unit ID: P082

Applicable Emissions
Limitations/Control
Measures

Total Controlled PM emissions not to exceed 2.22 lb per hr from Ferrous Casting Line #4 baghouse stack.

0.004 gr./dscf from the baghouse stack.

0% Opacity, as a six minute average, from the baghouse stack.

Total Combined Uncontrolled PM Emissions from Tube Cutting Machine #1 and Tube Cutting Machine #2 not to exceed 0.003 tons per year.

Total Uncontrolled PM Emissions from Ferrous Casting Line #4 Tube Cutting Machine #2 not to exceed 0.0006 lb per hour.

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

Total Controlled PM emissions not to exceed 9.71 tons per rolling 12-months from Ferrous Casting Line #4 baghouse stack.

The emissions limitations specified by these rules are less stringent than the emission limitations

established pursuant to OAC rule 3745-31-05(A)(3)

The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3)

2. Additional Terms and Conditions**2.a** Compliance with OAC rule 3745-31-05 shall be demonstrated by the following:

- i. the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse and
- ii. compliance with the limits in term A.I.1.

II. Operational Restrictions

1. The maximum throughput for Tube Cutting Machine #2 shall not exceed 1.1 tons of iron per hour and the maximum combined throughput for Tube Cutting Machine #1 and Tube Cutting Machine #2 shall not exceed 8268 tons of iron rolling, 12- months.
2. The pressure drop across the baghouse shall be maintained within the range of 1 to 15 inches of water while any emission unit controlled by the baghouse is in operation. The exception is for the first 45 days following a change of at least 50% of the fabric bags. During that time, the pressure drop shall be maintained below 15 inches of water while any emission unit controlled by the baghouse is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. The total iron throughput for each month.
 - b. The rolling, 12-month summation of the iron throughput.

(No hourly recordkeeping required. 1.1 tons of iron per hour represents the maximum designed capacity of the equipment.)

In order to ensure federal enforceability, for the first 12 calendar months of operation, Honda of America shall not exceed the following iron throughput for the specific time period.

<u>Month</u>	<u>Total Allowable Tons of Iron Throughput</u>
1	689
1-2	1378
1-3	2067
1-4	2756
1-5	3445
1-6	4134
1-7	4823
1-8	5512
1-9	6201
1-10	6890
1-11	7579
1-12	8268

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit(s) is in operation. The monitoring equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once each operating day.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month iron throughput limitation.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the emission unit was in operation and the pressure drop across the baghouse did not comply with the allowable range specified in term A. II. 2.
3. These reports, as denoted in terms A.IV.1. and 2., are due by the date described in Part 1-General Terms and Conditions of the permit under section (A) (1).

V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

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Emissions Unit ID: P082

9.71 tons of Controlled PM per year, as a rolling 12-month summation from the baghouse stack for Ferrous Casting Line #4..

Applicable Compliance Method:

Compliance shall be assumed as long the 0.004 gr./dscf PM limit from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{MASER})(\text{AOH})(\text{CONV}) = 9.71 \text{ tons of PM per year}$$

where

MASER = the maximum allowable stack emission rate (2.22 lbs PM/hr.)

AOH = the actual operating hours**

CONV = conversion factor (1 ton/2000 lbs.)

**Based on 8760 operating hours per year.

2. Emission Limitation:

2.22 lbs of Controlled PM/hour from the baghouse stack for Ferrous Casting Line #4.

Compliance shall be assumed as long as both the 0.004 gr./dscf PM limit from the baghouse stack and 0% Opacity, as a six minute average, from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(\text{BFR}) \times (\text{AV}) \times (\text{ST} / \text{BET}) \times (\text{BEP} / \text{SP}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 2.22 \text{ tons of PM per year}$$

where

BFR = Baghouse Flow Rate (65,000 acfm)

AV = the air variability factor (105%)

ST = Standard Temperature (530 Rankine)

BET = Baghouse Exit Temperature (560 Rankine)

BEP = Baghouse Exit Temperature (14.69b/in²)

SP = Standard Pressure (14.69b/in²)

BEF = Baghouse Efficiency (0.004 grains/dscf)

TI = Time (60 minutes per hour)

CONV = conversion factor (1 lb = 7000 grains)

The permittee shall conduct, or have conducted, emission testing for the baghouse stack for Ferrous Casting Line #4 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months of project completion and mass production start-up.

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- b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

<u>Pollutant</u>	<u>Test Method</u>	<u>Location</u>
Particulate	Method 5	40 <u>CFR</u> Part 60, Appendix A

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit(s) operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit(s) and the testing procedures provide a valid characterization of the emissions from the emissions unit(s) and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

3. Emission Limitation:

Not to exceed 0.003 tons of Uncontrolled PM emissions, as a rolling 12-month summation for Tube Cutting Machine #1 and Tube Cutting Machine #2.

Applicable Compliance Method:

Compliance shall be assumed as long as the combined maximum iron throughput rate for Tube Cutting Machine #1 and Tube Cutting Machine #2 per rolling 12-month summation is not exceeded. This is based on the recordkeeping requirements in term A.III. and the following

calculation:

$$(MMR) \times (PMER) \times (CONV) \times (1-CAP) \times (1-BCAP) = 0.003 \text{ tons of PM per year}$$

where

MMR = the maximum metal rate (8268 tons per year)**

PMER=the PM Emission rate (1.7 lb PM/ton of metal)(SCC ID 3-04-003-40)

CONV = conversion factor (1 ton/2000 lbs.)

CAP = Control Device Capture Efficiency (99.9%)

BCAP = Building Capture Efficiency (70%) (April 10,1998 letter to Ironton Iron Inc. from Stephen Giles, Director of Portsmouth Local Air Agency)

**As long as the 12-month maximum iron throughput limitation in term A.II. is not exceeded, compliance with this limitation is demonstrated

4. Emission Limitation

0.0006 lbs of Uncontrolled PM emissions per hour as a summation from Tube Cutting Machine #2.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate of 1.1 tons of iron per hour is met. This is based on both the record keeping requirements in term A.III. and the following calculation.

$$(MMR) \times (PMER) \times (1-CAP) \times (1-BCAP) = 0.0006 \text{ lbs of PM per hour}$$

where

MMR = the maximum metal rate (1.1 ton iron/hour)**

PMER=the PM Emission rate (1.7 lb PM/ton of metal)(SCC ID 3-04-003-40)

CAP = Control Device Capture Efficiency (99.9%)

BCAP = Building Capture Efficiency (70%) (April 10,1998 letter to Ironton Iron Inc. from Stephen Giles, Director of Portsmouth Local Air Agency)

**This limit represents the maximum capacity of the Line # 4 Tube Cutting Machine #2. Since this limit reflects the maximum throughput capacity of this source, no additional compliance determination is required.

5. Emission Limitation:

0% opacity, as a six-minute average, from the baghouse stack.

Applicable Compliance Method:

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Compliance shall be determined according to test method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60.

6. Emission Limitation:

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

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Issued: 6/19/2001

Emissions Unit ID: P082

Applicable Compliance Method:

40 CFR Part 60, Method 9, with opacity readings taken from any exit of the building.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P082 - Ferrous Casting Line #4 Tube Cutting Machine #2		

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P083 - Ferrous Casting Line #4 Autopour System	OAC rule 3745-31-05(A)(3)	OAC 3745-17-07 (A)(1)
		OAC rule 3745-17-11(B)(1)
	OAC Rule 3745-31-05(D)	

Applicable Emissions
Limitations/Control
Measures

rule 3745-31-05(A)(3)

Total Controlled PM
 emissions not to exceed 2.22
 lb per hr from Ferrous
 Casting Line #4 baghouse
 stack.

The emissions limitations specified by
 these rules are less stringent than the
 emission limitations established
 pursuant to OAC rule 3745-31-05
 (A)(3)

0.004 gr./dscf from the
 baghouse stack.

0% Opacity, as a six minute
 average, from the baghouse
 stack.

Total Uncontrolled PM
 Emissions from Ferrous
 Casting Line #4 Autopour
 System not to exceed 0.27
 tons per year.

Total Uncontrolled PM
 Emissions from Ferrous
 Casting Line #4 Autopour
 System not to exceed 0.15 lb
 per hour.

20% Opacity, as a three
 minute average, from any
 building exhaust associated
 with Ferrous Casting Line
 #4.

Total Controlled PM
 emissions not to exceed 9.71
 tons per rolling 12-months
 from Ferrous Casting Line
 #4 baghouse stack.

The emissions limitations
 specified by these rules are
 less stringent than the
 emission limitations
 established pursuant to OAC

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the following:

- i. the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse and
- ii. compliance with the limits in term A.I.1.

II. Operational Restrictions

- 1. The maximum throughput for Ferrous Casting Line #4 Autopour System shall not exceed 2.2 tons of iron per hour and 8268 tons of iron per rolling, 12- months.
- 2. The pressure drop across the baghouse shall be maintained within the range of 1 to 15 inches of water while any emission unit controlled by the baghouse is in operation. The exception is for the first 45 days following a change of at least 50% of the fabric bags. During that time, the pressure drop shall be maintained below 15 inches of water while any emission unit controlled by the baghouse is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. The total iron throughput for each month.
 - b. The rolling, 12-month summation of the iron throughput.

(No hourly recordkeeping required. 2.2 tons of iron per hour represents the maximum designed capacity of the equipment.)

In order to ensure federal enforceability, for the first 12 calendar months of operation, Honda of America shall not exceed the following iron throughput for the specific time period.

<u>Month</u>	<u>Total Allowable Tons of Iron Throughput</u>
1	689
1-2	1378
1-3	2067
1-4	2756

1-5	3445
1-6	4134
1-7	4823
1-8	5512
1-9	6201
1-10	6890
1-11	7579
1-12	8268

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit(s) is in operation. The monitoring equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once each operating day.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month iron throughput limitation.
- The permittee shall submit deviation (excursion) reports that identify all periods of time during which the emission unit was in operation and the pressure drop across the baghouse did not comply with the allowable range specified in term A. II. 2.
- These reports, as denoted in terms A.IV.1. and 2., are due by the date described in Part 1-General Terms and Conditions of the permit under section (A) (1).

V. Testing Requirements

- Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

- Emission Limitation:

9.71 tons of Controlled PM per year, as a rolling 12-month summation from the baghouse stack for Ferrous Casting Line #4..

Applicable Compliance Method:

Compliance shall be assumed as long as the 0.004 gr./dscf PM limit from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the

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Emissions Unit ID: P083

following calculation:

$(\text{MASER})(\text{AOH})(\text{CONV}) = 9.71 \text{ tons of PM per year}$

where

MASER = the maximum allowable stack emission rate (2.22 lbs PM/hr.)

AOH = the actual operating hours**

CONV = conversion factor (1 ton/2000 lbs.)

**Based on 8760 operating hours per year.

2. Emission Limitation:

2.22 lbs of Controlled PM/hour from the baghouse stack for Ferrous Casting Line #4.

Compliance shall be assumed as long the both the 0.004 gr./dscf PM limit from the baghouse stack and 0% Opacity, as a six minute average, from the baghouse stack is met. This is based both on the operating requirements in term A.II. and the following calculation:

$$(BFR) \times (AV) \times (ST / BET) \times (BEP / SP) \times (BEF) \times (TI) \times (CONV) = 2.22 \text{ tons of PM per year}$$

where

BFR = Baghouse Flow Rate (65,000 acfm)

AV = the air variability factor (105%)

ST = Standard Temperature (530 Rankine)

BET = Baghouse Exit Temperature (560 Rankine)

BEP = Baghouse Exit Temperature (14.69b/in²)

SP = Standard Pressure (14.69b/in²)

BEF = Baghouse Efficiency (0.004 grains/dscf)

TI = Time (60 minutes per hour)

CONV = conversion factor (1 lb = 7000 grains)

The permittee shall conduct, or have conducted, emission testing for the baghouse stack for Ferrous Casting Line #4 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months of project completion and mass production start-up.
- b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Pollutant

Test Method

Location

Particulate Method 5 40 CFR Part 60, Appendix A

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit(s) operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit(s) and the testing procedures provide a valid characterization of the emissions from the emissions unit(s) and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

3. Emission Limitation:

0.27 tons of Uncontrolled PM emissions, as a rolling 12-month summation from Ferrous Casting Line #4 Autopour System.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate per rolling 12-month summation is not exceeded. This is based on the recordkeeping requirements in term A.III. and the summation of the following calculations:

Holding

$(MMR) \times (PMER) \times (CONV) \times (1-CAP) = 0.18 \text{ tons of PM per year}$

where

MMR = the maximum metal rate (8268 tons per year)**

Honda of America Mfg Inc
PTI Application: **05-11350**
Issued

Facility ID: **0575000174**

Emissions Unit ID: P083

PMER=the PM Emission rate (0.86 lb PM/ton of metal)(SCC ID 3-04-003-03)

CONV = conversion factor (1 ton/2000 lbs.)

CAP = Control Device Capture Efficiency (95%)

Pouring

$(MMR) \times (PMER) \times (CONV) \times (1-CAP) = 0.09$ tons of PM per year

where

MMR = the maximum metal rate (8268 tons per year)**

PMER=the PM Emission rate (2.06 lb PM/ton of metal)(SCC ID 3-04-003-20)

CONV = conversion factor (1 ton/2000 lbs.)

CAP = Control Device Capture Efficiency (99%)

**As long as the 12-month maximum iron throughput limitation in term A.II. is not exceeded, compliance with this limitation is demonstrated.

4. Emission Limitation

0.15 lbs of Uncontrolled PM emissions per hour as a summation from Ferrous Casting Line #4 Autopour System.

Applicable Compliance Method:

Compliance shall be assumed as long as the maximum iron throughput rate of 2.2 tons of iron per hour is not exceeded. This is based on both the record keeping requirements in term A.III. and the summation of the following calculations.

Holding

$(MMR) \times (PMER) \times (1-CAP) = 0.1 \text{ lbs of PM per hour}$
where

MMR = the maximum metal rate (2.2 ton iron/hour)**

PMER=the PM Emission rate (0.86 lb PM/ton of metal)(SCC ID 3-04-003-03)

CAP = Control Device Capture Efficiency (95%)

Pouring

$(MMR) \times (PMER) \times (1-CAP) = 0.05 \text{ lbs of PM per hour}$

where

MMR = the maximum metal rate (2.2 ton iron/hour)**

PMER=the PM Emission rate (2.06 lb PM/ton of metal)(SCC ID 3-04-003-20)

CAP = Control Device Capture Efficiency (99%)

**This limit represents the maximum capacity of the Line # 4 Autopour System. Since this limit reflects the maximum throughput capacity of this source, no additional compliance determination is required.

5. Emission Limitation:

74

Honda

PTI A₁

Issued: 6/19/2001

Emissions Unit ID: P083

0% opacity, as a six-minute average, from the baghouse stack.

75

Honda

PTI A₁

Issued: 6/19/2001

Emissions Unit ID: P083

Applicable Compliance Method:

Compliance shall be determined according to test method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60.

6. Emission Limitation:

20% Opacity, as a three minute average, from any building exhaust associated with Ferrous Casting Line #4.

Applicable Compliance Method:

40 CFR Part 60, Method 9, with opacity readings taken from any exit of the building.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P083 - Ferrous Casting Line #4 Autopour System		

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 05-11350 Facility ID: 0575000174

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Line #4 Spin Cast Machine #1 CITY/TWP Anna

SIC CODE 3714 SCC CODE 3-09-016-02 EMISSIONS UNIT ID P078

EMISSIONS UNIT DESCRIPTION Ferrous Casting Line #4 Spin Cast Machine #1

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
PM ₁₀	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
Sulfur Dioxide	lb/hr	0.00045 lb/hr	0.0014 TPY	0.00045 lb/hr	0.0014 TPY
Organic Compounds	lb/hr	0.0041 lb/hr	0.013 TPY	0.0041 lb/hr	0.013 TPY
Nitrogen Oxides	lb/hr	0.1 lb/hr	0.4 TPY	0.1 lb/hr	0.4 TPY
Carbon Monoxide	lb/hr	0.1 lb/hr	0.4 TPY	0.1 lb/hr	0.4 TPY
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: BAT shall be demonstrated by the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 05-11350 Facility ID: 0575000174

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Line #4 Spin Cast Machine #2 CITY/TWP Anna

Emissions Unit ID: P083

SIC CODE 3714 SCC CODE 3-09-016-02 EMISSIONS UNIT ID P079

EMISSIONS UNIT DESCRIPTION Ferrous Casting Line #4 Spin Cast Machine #2

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
PM ₁₀	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
Sulfur Dioxide	lb/hr	0.00045 lb/hr	0.0014 TPY	0.00045 lb/hr	0.0014 TPY
Organic Compounds	lb/hr	0.0041 lb/hr	0.013 TPY	0.0041 lb/hr	0.013 TPY
Nitrogen Oxides	lb/hr	0.1 lb/hr	0.4 TPY	0.1 lb/hr	0.4 TPY
Carbon Monoxide	lb/hr	0.1 lb/hr	0.4 TPY	0.1 lb/hr	0.4 TPY
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: BAT shall be demonstrated by the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 05-11350 Facility ID: 0575000174

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Line #4 Shotblast Machine CITY/TWP Anna

Emissions Unit ID: P083

SIC CODE 3714 SCC CODE 3-09-002-08 EMISSIONS UNIT ID P080

EMISSIONS UNIT DESCRIPTION Ferrous Casting Line #4 Shotblast Machine

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
PM ₁₀	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: BAT shall be demonstrated by the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 05-11350 Facility ID: 0575000174

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Line #4 Tube Cutting Machine #1 CITY/TWP Anna

Emissions Unit ID: P083

SIC CODE 3714 SCC CODE 3-04-003-40 EMISSIONS UNIT ID P081

EMISSIONS UNIT DESCRIPTION Ferrous Casting Line #4 Tube Cutting Machine #1

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
PM ₁₀	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: BAT shall be demonstrated by the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 05-11350

Facility ID: 0575000174

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Line #4 Tube Cutting Machine #2

CITY/TWP Anna

Emissions Unit ID: P083

SIC CODE 3714

SCC CODE 3-04-003-40

EMISSIONS UNIT ID P082

EMISSIONS UNIT DESCRIPTION Ferrous Casting Line #4 Tube Cutting Machine #2

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
PM ₁₀	fe/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: BAT shall be demonstrated by the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse.

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TOXIC AIR CONTAMINANTS

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AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 05-11350 Facility ID: 0575000174

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Line #4 Autopour Svstem CITY/TWP Anna

Emissions Unit ID: P083

SIC CODE 3714 SCC CODE 3-04-003-03 EMISSIONS UNIT ID P083

EMISSIONS UNIT DESCRIPTION Ferrous Casting Line #4 Autopour System

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
PM ₁₀	gr/dscf	0.004 gr/dscf	10.1 TPY	0.004 gr/dscf	10.1 TPY
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: BAT shall be demonstrated by the use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control PM dust by venting to a baghouse.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS: