



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 05-13639

Fac ID: 0575000174

DATE: 2/21/2008

Honda of America Mfg Inc
Paul Huwer
12500 MERANDA RD
ANNA, OH 45302-9699

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 of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

SWDO



Permit To Install
Terms and Conditions

Issue Date: 2/21/2008
Effective Date: 2/21/2008

FINAL PERMIT TO INSTALL 05-13639

Application Number: 05-13639
Facility ID: 0575000174
Permit Fee: **\$5750**
Name of Facility: Honda of America Mfg Inc
Person to Contact: Paul Huwer
Address: 12500 MERANDA RD
ANNA, OH 45302-9699

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

**12500 Meranda Rd
Anna, Ohio**

Description of proposed emissions unit(s):

Modification of Line 1 pouring, cooling, shakeout, extraction, and shot blast. Modification is for production increases and addition of carbon monoxide emission limitations.

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

Chris Korleski
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 (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 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 (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, 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. If this permit is for an emissions unit located at a Title V facility, then 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.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

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 re-issuance, or modification
- 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, 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 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.

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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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

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 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 and the State and by citizens (to the extent allowed by section 304 of the Act) 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 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 ninety (90) 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.

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12. 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.

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

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

1. Compliance Requirements

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

2. Reporting 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 (i.e., postmarked) quarterly, 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.

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The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

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4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit 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.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.

6. 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.

7. 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).

8. Construction Compliance Certification

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

9. 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., postmarked), 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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	33.21*
SO2	0.86
NOx	1.43
CO	86.84
OC	57.86

* estimated PE from individual air flows from each emission to the baghouse. Air flow data was from Honda's PTI application and Emissions Activity Category forms.

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Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

1. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B) and 3745-17-08(B) do not apply to the fugitive emissions from the affected emissions units at this facility.
2. The particulate emissions (PE) from baghouse BH-4 serving emissions units P020, P087 and P902 shall not exceed 0.005 grain/dry standard cubic foot (dscf) of the total exhaust gases.

The PE from baghouse BH-5 serving emissions units P017, P910, and P901(tapping and charging) shall not exceed 0.005 grain/dscf of the total exhaust gases.

The PE from baghouse BH-6 serving emissions units P018, P020 and P075 shall not exceed 0.005 grain/dscf of the total exhaust gases.

The permittee reserves the right to direct the PE from any other existing or new emissions units to these baghouses with the understanding that emissions will not exceed 0.005 grain/dscf of the total exhaust gases and/or individual emission unit's permitted allowable emission limitation.

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 Ohio EPA within 30 days after the change(s) documenting the change(s). This information would include, but 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 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.

Operations, Property, and/or Equipment -(P017) - Line no. 1 sand mold making controlled by baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The OC emissions from this emissions unit shall not exceed 8.1 lbs/hr from the application of mold release.</p> <p>The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.</p> <p>See Section I.2.a., I.2.b., I.2.c, and I.2.d.</p>
OAC rule 3745-31-05(C) to Avoid PSD threshold.	<p>The particulate emissions (PE) from baghouse # 5, which controls emissions from emissions unit P017, emissions unit P910, Holding Furnaces, and charging and tapping of emissions unit P901, Cupola, shall not exceed 11.25 tons (PE)/ rolling 12-month period.</p> <p>The fugitive emissions from P017 shall not exceed 0.71 tons of PE/ rolling 12-month period.</p> <p>The OC emissions from this emissions unit shall not exceed 29.2 tons/ rolling 12-month period.</p> <p>See Section II.2</p>
OAC rule 3745-21-07(G)(2)	The OC limitation specified by this rule is less stringent than the OC limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	Visible PE emissions from any baghouse vent that this emission unit is controlled by shall not exceed 20% opacity, as a 6-minute average.
OAC rule 3745-17-11(B)(1) Figure II curve P-1	The PE emissions shall not exceed 21.34 lbs per hour
OAC rule 3745-31-05(A)(3)(b)	See Section I.2.e.

Emissions Unit ID: P017

2. Additional Terms and Conditions

- 2.a** Permit to Install 05-13639 for this emissions unit takes into account the use of a baghouse system, when this emissions unit is in operation, with a maximum emission rate of 0.005 grains of particulate (PE) emissions per dry standard cubic feet (dscf) as a voluntary restriction as proposed by the permittee for purpose of constituting a Synthetic Minor under the applicable emission threshold of Prevention of Significant Deterioration (PSD) requirements.
- 2.b** This emission unit shall be enclosed (inside a building) in such a manner to minimize or eliminate any emissions that may be emitted through the building exhausts into the ambient air.
- 2.c** Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collectors or stacks, or to route emissions from other emissions units to the dust collectors and stacks associated with this emission unit as long as the control device associated the stack it is vented to has demonstrated an emission rate of 0.005 grains of PE/dscf or less.
- 2.d** The hourly OC emission limitations were established to reflect the maximum potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.
- 2.e** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE) emissions from this emissions unit since the potential emissions are less than ten tons per year.

II. Operational Restrictions

1. The maximum operating hours for emissions units P017 shall not exceed 7200, based upon a rolling, 12 month summation of the operating hours.

The permittee has existing records of the 12-month rolling operating hours; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

2. The maximum amount of sand processed through emissions units P017 shall not exceed 394,623 tons per rolling 12-month period.

The permittee has existing records of the 12-month rolling on the amount of metal processed through Ferrous Line #1; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

3. The amount of mold release employed in this emission unit shall not exceed 14,400

Emissions Unit ID: P017

gallons/ rolling 12-month period.

The permittee has existing records of the 12-month rolling operating hours; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

4. The organic content of the mold release employed in this emission unit shall not exceed 4.05 pounds/gallon.
5. This emission unit shall employ mold binders that contain no volatile organic compounds.

III. Monitoring and/or Recordkeeping Requirements:

1. The permittee shall maintain monthly records of the following information:
 - a. the hours that baghouse #5 was operated;
 - b. the particulate emissions (PE) rate from baghouse # 5, in grains per dry standard cubic feet (g/dscf), 0.005 g/dscf or result from most recent stack test;
 - c. the monthly PE from baghouse #5, in tons, (the summation of: $\{[(\text{"b"} \times 72,948 \text{ acfm}) \times 60 \text{ mins/hr} \times (1\text{lb}/7,000)] \times \text{"a"}\} / 2,000 \text{ lbs/ton}$); and
 - d. the rolling, 12-month total PE from baghouse # 5. The rolling, 12-month summation of the total amount of PE (the total amount of PE for the current month ("j") plus the total amount of PE for the 11 previous calendar months).
2. The permittee shall maintain monthly records of the following information:
 - a. the amount of sand employed in emissions unit P017, in tons;
 - b. the rolling, 12-month total sand usage in emissions unit P017. The rolling, 12-month summation of the total sand employed (the total amount of sand employed for the current month ("a") plus the total amount of sand employed for the 11 previous calendar months);
 - c. the monthly fugitive PE emissions, in tons, (the summation of: $\{[(\text{sand usage "a"} \times 3.6 \text{ lbs of PE/ton of sand employed, from Fire SCC 304000350,}) \times (1 - \text{hooding capture efficiency (99.9\%, best engineering assumption)})] / 2000 \text{ lbs/ton}$); and
 - d. the rolling, 12-month total fugitive PE from P017. The rolling, 12-month summation of the total fugitive PE (the total amount of fugitive PE for the current month ("n") plus the total amount of fugitive PE for the 11 previous calendar months).

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3. The permittee shall maintain monthly records of the following information:
 - a. the total operating hours;
 - b. the rolling, 12-month total operating hours for this emissions units. The rolling, 12-month summation of the total operating hours for this emissions unit (the total operating hours for the current month ("a") plus the total operating hours for the 11 previous calendar months);
 - c. the amount of mold release employed, in gallons employed;
 - d. the organic content of each mold release employed, in pounds per gallon;
 - e. the monthly OC emissions from the use of mold release, in tons, (the summation of: ("c" x "d"));
 - f. the rolling, 12-month total OC emissions from the use of mold release. The rolling, 12-month summation of the total amount of OC emissions (the total amount of OC emissions for the current month ("e") plus the total amount of OC emissions for the 11 previous calendar months); and
 - g. is the mold release "photochemically reactive" ("yes" or "no").
4. This facility shall maintain the following monthly records if any photochemically reactive materials are used in this emissions unit.
 - a. if any material employed is by definition "Photochemically Reactive", the amount of each material employed, in gallons;
 - b. if any material employed is by definition "Photochemically Reactive", the organic compound content of each material employed, in lbs/gal;
 - c. if any material employed is by definition "Photochemically Reactive", the organic compound (OC) emissions of each material employed, in lbs of OC/day ("c" x "d");
 - d. if any material employed is by definition "Photochemically Reactive", the total OC emissions from all materials employed, in lbs of OC/day (sum of all "e");
 - e. if any material employed is by definition "Photochemically Reactive", the total

Emissions Unit ID: P017

number of hours this emission unit was operated, in hours/day; and

- f. if any material employed is by definition "Photochemically Reactive", the estimated hourly OC emission rate, in lbs of OC/hr ("f"/"g").
5. 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.

The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit is in operation. The monitoring equipment shall be 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.
 6. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log;
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify the following:
 - a. all exceedances of the rolling, 12-month period OC emission limitation of 29.2 tons;
 - b. all exceedances of the combined rolling, 12-month period PE limitation of 11.25 tons from baghouse # 5, (emissions from emissions unit P017, emissions unit P910, Holding Furnaces, and the charging and tapping of emissions unit P901, Cupola);
 - c. all exceedances of the rolling 12-month period sand usage of 394,623 tons per rolling 12-month period in emissions unit P017;
 - d. all exceedances of the rolling 12-month period fugitive PE limitation of 0.71 tons

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per rolling 12-month period from emissions unit P017;

- e. all exceedances of the rolling, 12-month period 7,200 operation hour limitation; and/or
- f. an identification use of "photochemical reactive" mold release (parting spray).

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

- 2. The permittee shall submit quarterly deviation (excursion) reports that identify the all periods of time in which this emissions unit was in operation and the pressure drop across the baghouse(s) did not comply with the allowable range.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

- 3. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible PE were observed from any stack serving this emissions unit;
 - b. identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and
 - c. describe the corrective actions taken to eliminate the visible PE.

These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

- 1. Compliance with the emission limitation(s) and operational restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:
 - a. Emission Limitation:
 - 8.1 lb of OC emissions/hr

Emissions Unit ID: P017

The hourly OC emission limitation represent the emissions unit's potential to emit and was established by the following methodology:

$$\text{HER} = \text{Mu} \times \text{Oc}$$

where

HER = Hourly emission rate, in lbs of OC/hr;

Mu = Mold release usage rate, in gallons/hr (2 gallons/hr, from Honda data);
and

Oc = Organic Compound (OC) content of the mold release, in pounds of OC per gallon of mold release (4.05, from Honda data).

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Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the understanding that the maximum hourly usage of mold release will not exceed 2 gallons per hour and the maximum OC content of the mold release employed would not exceed 4.05 lbs/gallon.

If required, the permittee shall demonstrate formulation data or USEPA Method 24 shall be used to determine the VOC content of each mold release employed.

b. Emission Limitation:

29.2 tons OC/12-month rolling period, including fugitives.

The hourly OC emission limitation represent the emissions unit's potential to emit and was established by the following methodology:

$$\text{AER} = \text{Mu} \times \text{Oc}$$

where

AER = Annual Emission Rate, in tons per rolling 12-month period ;

Mu = Mold release usage rate, in gallons/ rolling 12-month period (14,400), from Honda data); and

Oc = Organic Compound (OC) content of the mold release, in pounds of OC per gallon of mold release (4.05, from Honda data).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.3., of this permit.

c. Emission Limitation:

21.34 lbs of PE/hr

The hourly emission limitation was established by the following methodology:

$$\text{AMR} = 0.5782 \times (\text{U to the power of } 0.6456)$$

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where:

AMR = Allowable Mass Emission Rate, in lbs/hr;

U = Uncontrolled particulate emissions, in lbs/hr (Fire, SCC 304000350, emission factor of , 3.6 lbs emitted/ton of sand multiplied by 74.3 tons of sand /hr maximum).

Emission calculation is based on the requirements of OAC rule 3745-17-11(B)(1) Figure II, curve P-1.

Applicable Compliance Method:

Compliance with the above limitations is based on the 74.3 tons of sand employed being the maximum potential sand usage in this emissions unit and emission testing demonstrating 0.005 grains/ dscf requirement.

d. Emission Limitation:

The particulate emissions (PE) from baghouse # 5, which controls emissions from emissions unit P017, emissions unit P910, Holding Furnaces, and the charging and tapping of emissions unit P901, Cupola, shall not exceed 11.25 tons (PE)/ rolling 12-month period.

The combined rolling 12-month emission limitation is the total sum of the following equation for all of the above listed emissions units:

$$\text{AER} = [(Af \times Ef \times 60 \text{ mins/hr} \times Cf) \times Ho] / 2000$$

where:

AER = Particulate emissions, in tons per rolling 12 month period;

Af = Maximum Air Flow from Baghouse # 5, in acfm, (72,948, specific acfm rates are from the data provide by Honda);

Ef = Emission factor of the control device, grains of PE per dscf, (0.005 grains/ dscf, data from Honda and represents a voluntary restriction that Honda has requested to be limited to);

Cf = Conversion factor, (1 lbs/7,000 grains); and

Ho = Allowable rolling 12-month hours of operation limitation, (7,200 hrs, Honda's requested voluntary limitation).

Emissions Unit ID: P017

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.1., of this permit.

e. Emission Limitation:

The fugitive particulate emissions (PE) from emissions unit P017, shall not exceed 0.71 tons (PE)/ rolling 12-month period.

The fugitive PE rolling 12-month emission limitation is the total sum of the following equation:

$$\text{FER} = [(\text{MSR} \times \text{Ef}) \times (1 - \text{CAP})] / 2000 \text{ lbs/ton}$$

where:

FER = Fugitive Particulate emissions, in tons per rolling 12 month period;
 MSR = Maximum sand usage rate, in tons, (394,623 tons, from the data provide by Honda);

Ef = Emission factor, in lbs of PE/ton of sand, (3.6 lbs/ton of sand, Fire SCC 304000350); and

CAP = Assumed capture efficiency, in %, (99.9% (0.999), from data provided by Honda).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.2, of this permit.

f. Emission Limitation:

Visible PE shall not exceed opacity, as a 6-minute average, from any baghouse stack nor 20% opacity from any roof vent serving this emission unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall conduct, or have conducted, emission testing for on baghouse # 5 and all other baghouses that this emissions unit is controlled by to demonstrate compliance with the allowable PE limitations.

a. The emission testing shall be conducted within 1 year prior to expiration of the

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Title V permit for this source (facility).

- b. The emission testing shall be conducted to demonstrate compliance with the allowable PE limitations.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emission units being controlled by the baghouse(s) are being operated at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment - (P017) - Line no. 1 sand mold making controlled by baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Limit(s)

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.

Operations, Property, and/or Equipment -(P018) - Rough finishing system with disc deburr machine nos. 1 and 2, controlled by baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) to Avoid PSD threshold.	<p>The particulate emissions (PE) from baghouse # 6, which controls emissions from emissions unit P018, emissions unit P075, Line 1 Shotblast, and emissions unit P020, Line 1 Didion, shall not exceed 12.15 tons (PE)/ rolling 12-month period.</p> <p>The fugitive emissions from P018 shall not exceed 0.62 tons of PE/ rolling 12-month period.</p> <p>See Section II.2</p>
OAC rule 3745-17-07(A)(1)	Visible PE emissions from any baghouse vent that this emission unit is controlled by shall not exceed 20% opacity, as a 6-minute average.
OAC rule 3745-17-11(B)(1) Figure II curve P-1	The PE emissions shall not exceed 18.20 lbs per hour
OAC rule 3745-31-05(A)(3)(b)	See Section I.2.d.

2. Additional Terms and Conditions

- 2.a Permit to Install 05-13639 for this emissions unit takes into account the use of a baghouse system, when this emissions unit is in operation, with a maximum emission rate of 0.005 grains of particulate (PE) emissions per dry standard cubic feet (dscf) as a voluntary restriction as proposed by the permittee for purpose of constituting a Synthetic Minor under the applicable emission threshold of Prevention of Significant Deterioration (PSD) requirements.
- 2.b This emission unit shall be enclosed (inside a building) in such a manner to minimize or eliminate any emissions that may be emitted through the building

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exhausts into the ambient air.

- 2.c Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collectors or stacks, or to route emissions from other emissions units to the dust collectors and stacks associated with this emission unit as long as the control device associated the stack it is vented to has demonstrated an emission rate of 0.005 grains of PE/dscf or less.
- 2.d The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE) emissions from this emissions unit since the potential emissions are less than ten tons per year.

II. Operational Restrictions

- 1. The maximum operating hours for emissions units P018 shall not exceed 7200, based upon a rolling, 12 month summation of the operating hours.

The permittee has existing records of the 12-month rolling operating hours; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

- 2. The maximum amount of metal processed through emissions units P018 shall not exceed 72,900 tons per rolling 12-month period.

The permittee has existing records of the 12-month rolling on the amount of metal processed through Ferrous Line #1; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. the total operating hours;
 - b. the rolling, 12-month total operating hours for this emissions units. The rolling, 12-month summation of the total operating hours for this emissions unit (the total operating hours for the current month ("a") plus the total operating hours for the 11 previous calendar months);
 - c. the hours that baghouse # 6 was operated;

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- d. the particulate emissions (PE) rate from baghouse # 6, in grains per dry standard cubic feet (g/dscf), 0.005 g/dscf or result from most recent stack test;
 - e. the monthly PE from baghouse #6, in tons, (the summation of: $\{[("d" \times 78,719 \text{ acfm}) \times (60 \text{ mins/hr}) \times (1\text{lb}/7,000)] \times "a"\} / 2,000 \text{ lbs/ton}$);
 - f. the rolling, 12-month total PE from baghouse # 6. The rolling, 12-month summation of the total amount of PE (the total amount of PE for the current month ("e") plus the total amount of PE for the 11 previous calendar months);
2. The permittee shall maintain monthly records of the following information:
 - a. the amount of metal processed in emissions unit P018, in tons;
 - b. the rolling, 12-month total metal processed in emissions unit P018. The rolling, 12-month summation of the total sand employed (the total amount of metal processed employed for the current month ("a") plus the total amount of metal processed employed for the 11 previous calendar months);
 - c. the monthly fugitive PE emissions, in tons, (the summation of: $\{[(\text{metal processed "a"} \times 17.0 \text{ lbs of PE/ton of metal processed, from Fire SCC 304000340,}) \times (1 - \text{hooding capture efficiency (99.9\%), best engineering assumption})] / 2000 \text{ lbs/ton}\}$; and
 - d. the rolling, 12-month total fugitive PE from P018. The rolling, 12-month summation of the total fugitive PE (the total amount of fugitive PE for the current month ("c") plus the total amount of fugitive PE for the 11 previous calendar months).
 3. 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.

The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit is in operation. The monitoring equipment shall be 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.

4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be

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noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log:

- a. the color of the emissions;

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- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify the following:
 - a. all exceedances of the combined rolling, 12-month period PE limitation of 12.15 tons from baghouse # 6, (emissions from emissions unit P018, emissions unit P075, Line 1 Shotblast, and emissions unit P020, Line 1 Didion,);
 - b. all exceedances of the rolling 12-month period metal processed of 72,900 tons per rolling 12-month period in emissions unit P018;
 - c. all exceedances of the rolling 12-month period fugitive PE limitation of 0.62 tons per rolling 12-month period from emissions unit P018; and/or
 - d. all exceedances of the rolling, 12-month period 7,200 operation hour limitation.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

2. The permittee shall submit quarterly deviation (excursion) reports that identify the all periods of time in which this emissions unit was in operation and the pressure drop across the baghouse(s) did not comply with the allowable range.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

3. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible PE were observed from any stack serving this emissions unit;
 - b. identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and
 - c. describe the corrective actions taken to eliminate the visible PE.

Emissions Unit ID: P018

These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- a. Emission Limitation:

18.20 lbs of PE/hr

The hourly emission limitation was established by the following methodology:

$$AMR = 0.5782 \times (U \text{ to the power of } 0.6456)$$

where:

AMR = Allowable Mass Emission Rate, in lbs/hr;

U = Uncontrolled particulate emissions, in lbs/hr (Fire, SCC 304000340, emission factor of , 17.0 lbs emitted/ton of metal multiplied by 12.3 tons of metal processed /hr maximum).

Emission calculation is based on the requirements of OAC rule 3745-17-11(B)(1) Figure II, curve P-1.

Applicable Compliance Method:

Compliance with the above limitations is based on the 12.3 tons of metal processed being the maximum potential process rate for this emissions unit and emission testing demonstrating 0.005 grains/ dscf requirement.

- b. Emission Limitation:

The particulate emissions (PE) from baghouse # 6, which controls emissions from emissions unit P018, emissions unit P075, Line 1 Shotblast, and emissions unit P020, Line 1 Didion, shall not exceed 12.15 tons/ rolling 12-month period.

The combined rolling 12-month emission limitation is the total sum of the following equation for all of the above listed emissions units:

$$AER = [(Af \times Ef \times 60 \text{ mins/hr} \times Cf) \times Ho] / 2000$$

where:

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AER = Particulate emissions, in tons per rolling 12 month period;
 Af = Maximum Air Flow from Baghouse #6, in acfm, (78,719, specific acfm rates are from the data provide by Honda);
 Ef = Emission factor of the control device, grains of PE per dscf, (0.005 grains/dscf, data from Honda and represents a voluntary restriction that Honda has requested to be limited to);
 Cf = Conversion factor, (1 lbs/7,000 grains); and
 Ho = Allowable rolling 12-month hours of operation limitation, (7,200 hrs, Honda's requested voluntary limitation).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.1, of this permit.

c. Emission Limitation:

The fugitive particulate emissions (PE) from emissions unit P018, shall not exceed 0.62 tons (PE)/ rolling 12-month period.

The fugitive PE rolling 12-month emission limitation is the total sum of the following equation:

$$FER = [(MSR \times Ef) \times (1-CAP)] / 2000\text{lbs/ton}$$

where:

FER = Fugitive Particulate emissions, in tons per rolling 12 month period;
 MSR = Maximum metal processed rate, in tons, (72,900 tons, from the data provide by Honda);
 Ef = Emission factor, in lbs of PE/ton of sand, (17.0 lbs/ton of metal charged, Fire SCC 304000340); and
 CAP = Assumed capture efficiency, in %, (99.9% (0.999), from data provided by Honda).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.2, of this permit.

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- d. Emission Limitation: Visible PE shall not exceed opacity, as a 6-minute average, from any baghouse stack nor 20% opacity from any roof vent serving this emission unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall conduct, or have conducted, emission testing for on baghouse # 6 and all baghouses that this emissions unit is controlled by to demonstrate compliance with the allowable PE limitations.
 - a. The emission testing shall be conducted within 1 year prior to expiration of the Title V permit for this source (facility).
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable PE limitations.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emission units being controlled by the baghouse(s) are being operated at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

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Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment -(P018) - Rough finishing system with sleeve deburr machine nos. 1 and 2, drum deburr machine no. 1 and disc deburr machine nos. 1 and 2, controlled by baghouse terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Limit(s)

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

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Emissions Unit ID: P018

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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.

Operations, Property, and/or Equipment -(P020) - Line no. 1 extraction/shakeout/sand separation and cooling with conveyors, separation drum, sorting/degating conveyors, and casting cooling conveyors, equipped with a baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The stacked Carbon Monoxide (CO) emissions shall not exceed 23.36 lbs./hr</p> <p>The stacked Organic Compound (OC) emissions shall not exceed 11.48 lbs of organic compound (OC) emissions/hr</p> <p>See Section I.2.a., Section I.2.b., Section I.2.c., and Section I.2.d.</p>

Emissions Unit ID: P020

<p>OAC rule 3745-31-05(C) to Avoid PSD threshold.</p>	<p>The particulate emissions (PE) from baghouse # 6, which controls emissions from emissions unit P020, emissions unit P075, Line 1 Shotblast, and emissions unit P018, Rough finishing system, shall not exceed 12.15 tons (PE)/ rolling 12-month period.</p> <p>The particulate emissions (PE) from baghouse # 4, which controls emissions from emissions unit P020, emissions unit P902, Autopour I Furnace, and emissions unit P087, Disc M/C, shall not exceed 11.53 tons (PE)/ rolling 12-month period.</p> <p>The fugitive emissions from P020 shall not exceed 0.92 tons of PE/ rolling 12-month period.</p> <p>The Carbon Monoxide (CO) emissions shall not exceed 51.24 tons/ 12-month period, based on a rolling, 12-month summation, including fugitives.</p> <p>The Organic Compound (OC) emissions shall not exceed 25.19 tons/ 12-month period, based on a rolling, 12-month summation, including fugitives.</p> <p>See Section II.1 and Section II.2</p>
<p>OAC rule 3745-17-07(A)(1)</p>	<p>Visible PE emissions from any roof vent that emits emissions into the ambient air from this emission unit shall not exceed 20% opacity, as a 6-minute average.</p>
<p>OAC rule 3745-17-11(B)(1) Figure II curve P-1</p>	<p>The PE emissions shall not exceed 21.98 lbs per hour</p>

2. Additional Terms and Conditions

- 2.a** Permit to Install 05-13639 for this emissions unit takes into account the use of a baghouse system, when this emissions unit is in operation, with a maximum emission rate of 0.005 grains of particulate (PE) emissions per dry standard cubic feet (dscf) as a voluntary restriction as proposed by the permittee for purpose of constituting a Synthetic Minor under the applicable emission threshold of Prevention of Significant Deterioration (PSD) requirements.
- 2.b** This emission unit shall be enclosed (inside a building) in such a manner to minimize or eliminate any emissions that may be emitted through the building exhausts into the ambient air.
- 2.c** Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collectors or stacks, or to route emissions from other emissions units to the dust collectors and stacks associated with this emission unit as long as the control devise associated the stack it is vented to

Emissions Unit ID: P020

has demonstrated an emission rate of 0.005 grains of PE/dscf or less.

- 2.d** The hourly OC and CO emission limitations were established to reflect the maximum potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.

II. Operational Restrictions

1. The maximum operating hours for emissions units P020 shall not exceed 7,200, based upon a rolling, 12 month summation of the operating hours.

The permittee has existing records of the 12-month rolling operating hours; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

2. The maximum amount of metal processed through emissions units P020 shall not exceed 57,320 tons per rolling 12-month period.

The permittee has existing records of the 12-month rolling on the amount of metal processed through Ferrous Line #1; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:
- a. the total operating hours;
 - b. the rolling, 12-month total operating hours for this emissions units. The rolling, 12-month summation of the total operating hours for this emissions unit (the total operating hours for the current month ("a") plus the total operating hours for the 11 previous calendar months);
 - c. the hours that baghouse # 6 was operated;
 - d. the particulate emissions (PE) rate from baghouse # 6, in grains per dry standard cubic feet (g/dscf), 0.005 g/dscf or result from most recent stack test;
 - e. the monthly PE from baghouse #6, in tons, (the summation of: $\{[("d" \times 78,719 \text{ acfm}) \times (60 \text{ mins/hr}) \times (1\text{lb}/7,000)] \times "a"\} / 2,000 \text{ lbs/ton}$); and
 - f. the rolling, 12-month total PE from baghouse # 6. The rolling, 12-month summation of the total amount of PE (the total amount of PE for the current month ("e") plus the total amount of PE for the 11 previous calendar months).

Emissions Unit ID: P020

2. The permittee shall maintain monthly records of the following information:
 - a. the hours that baghouse # 4 was operated;
 - b. the particulate emissions (PE) rate from baghouse # 4, in grains per dry standard cubic feet (g/dscf), 0.005 g/dscf or result from most recent stack test;
 - c. the monthly PE from baghouse # 4, in tons, (the summation of: $\{[("b" \times 74,731 \text{ acfm}) \times (60 \text{ mins/hr}) \times (1\text{lb}/7,000)] \times "a" \} / 2,000 \text{ lbs/ton}$); and
 - d. the rolling, 12-month total PE from baghouse # 4. The rolling, 12-month summation of the total amount of PE (the total amount of PE for the current month ("i") plus the total amount of PE for the 11 previous calendar months).

3. The permittee shall maintain monthly records of the following information:
 - a. the amount of metal processed in emissions unit P020, in tons; and
 - b. the rolling, 12-month total metal processed in emissions unit P020. The rolling, 12-month summation of the total sand employed (the total amount of sand employed for the current month ("k") plus the total amount of sand employed for the 11 previous calendar months).

4. The permittee shall maintain monthly records of the following information:
 - a. the carbon monoxide (CO) rate, in pounds per ton of metal processed, 1.77 lbs/ton of metal or result from most recent stack test;
 - b. the monthly CO emissions, in tons, (the summation of: $\{(\text{metal processed "Section III.3.a."} \times "a") + [(\text{metal processed "Section III.3.a."} \times "a") \times (("a" \times (1/99.0\%)) - "a")]\} / 2000 \text{ lbs/ton}$); and
 - c. the rolling, 12-month total CO emissions from P902. The rolling, 12-month summation of the total CO emissions (the total amount of CO emitted for the current month ("b") plus the total amount of CO emitted for the 11 previous calendar months).

5. The permittee shall maintain monthly records of the following information:
 - a. the organic compound (OC) rate, in pounds per ton of metal processed, 0.87 lbs/ton of metal or result from most recent stack test;
 - b. the monthly OC emissions, in tons, (the summation of: $\{(\text{metal processed "Section III.3.a."} \times "a") + [(\text{metal processed "Section III.3.a."} \times "a") \times (("a" \times (1/99.0\%)) - "a")]\} / 2000 \text{ lbs/ton}$); and

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- c. the rolling, 12-month total OC emissions from P902. The rolling, 12-month summation of the total OC emissions (the total amount of OC emitted for the current month ("b") plus the total amount of OC emitted for the 11 previous calendar months).
6. 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.

The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit is in operation. The monitoring equipment shall be 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.

7. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log;
 - a. the color of the emissions;

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- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify the following:
 - a. all exceedances of the combined rolling, 12-month period PE limitation of 12.15 tons from baghouse # 6, (emissions from emissions unit P020, emissions unit P075, Line 1 Shotblast, and emissions unit P018, Disk Deburring);
 - b. all exceedances of the combined rolling, 12-month period PE limitation of 11.53 tons from baghouse # 4, (emissions from emissions unit P020, emissions unit P902, Autopour I Furnace, and emissions unit P087, Disk Core M/C);
 - c. all exceedances of the rolling 12-month period metal processed of 57,320 tons per rolling 12-month period in emissions unit P020;
 - e. all exceedances of the rolling 12-month period carbon monoxide (CO) emission limitation of 52.24 tons per rolling 12-month period from emissions unit P020;
 - f. all exceedances of the rolling 12-month period organic compound (OC) emission limitation of 25.19 tons per rolling 12-month period from emissions unit P020; and/or
 - g. all exceedances of the rolling, 12-month period 7,200 operation hour limitation.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

2. The permittee shall submit quarterly deviation (excursion) reports that identify the all periods of time in which this emissions unit was in operation and the pressure drop across the baghouse(s) did not comply with the allowable range.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

3. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible PE were observed from any stack serving this emissions unit;
 - b. identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and

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- c. describe the corrective actions taken to eliminate the visible PE.

These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- a. Emission Limitation:

21.98 lbs of PE/hr

The hourly emission limitation was established by the following methodology:

$$AMR = 0.5782 \times (U \text{ to the power of } 0.6456)$$

where:

AMR = Allowable Mass Emission Rate, in lbs/hr;

U = Uncontrolled particulate emissions, in lbs/hr (Fire, SCC 304000331, emission factor of , 3.2 lbs emitted/ton of metal processed multiplied by 87.5 tons of metal processed /hr maximum).

Emission calculation is based on the requirements of OAC rule 3745-17-11(B)(1) Figure II, curve P-1.

Applicable Compliance Method:

Compliance with the above limitations is based on the 87.5 tons of metal processed being the maximum potential process rate for this emissions unit and emission testing demonstrating 0.005 grains/ dscf requirement.

- b. Emission Limitation:

The particulate emissions (PE) from baghouse # 6, which controls emissions from emissions unit P020, emissions unit P075, Line 1 Shotblast, and emissions unit P018, Rough Finish, shall not exceed 12.15 tons/ rolling 12-month period.

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The combined rolling 12-month emission limitation is the total sum of the following equation for all of the above listed emissions units:

$$\text{AER} = [(\text{Af} \times \text{Ef} \times 60 \text{ mins/hr} \times \text{Cf}) \times \text{Ho}] / 2000$$

where:

AER = Particulate emissions, in tons per rolling 12 month period;
 Af = Maximum Air Flow from Baghouse #6, in acfm, (78,719, specific acfm rates are from the data provide by Honda);
 Ef = Emission factor of the control device, grains of PE per dscf, (0.005 grains/dscf, data from Honda and represents a voluntary restriction that Honda has requested to be limited to);
 Cf = Conversion factor, (1 lbs/7,000 grains); and
 Ho = Allowable rolling 12-month hours of operation limitation, (7,200 hrs, Honda's requested voluntary limitation).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.1, of this permit.

c. Emission Limitation:

The particulate emissions (PE) from baghouse # 4, which controls emissions from this emissions unit shall not exceed 11.53 tons/ rolling 12-month period.

The combined rolling 12-month emission limitation is the total sum of the following equation for all of the above listed emissions units:

$$\text{AER} = [(\text{Af} \times \text{Ef} \times 60 \text{ mins/hr} \times \text{Cf}) \times \text{Ho}] / 2000$$

where:

AER = Particulate emissions, in tons per rolling 12 month period;
 Af = Maximum Air Flow from Baghouse #4, in acfm, (74,731, specific acfm rates are from the data provide by Honda);
 Ef = Emission factor of the control device, grains of PE per dscf, (0.005 grains/dscf, data from Honda and represents a voluntary restriction that Honda has requested to be limited to);

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Cf = Conversion factor, (1 lbs/7,000 grains); and
 Ho = Allowable rolling 12-month hours of operation limitation, (7,200 hrs,
 Honda's requested voluntary limitation).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.2, of this permit.

d. Emission Limitation:

The fugitive particulate emissions (PE) from emissions unit P020, shall not exceed 0.92 tons (PE)/ rolling 12-month period.

The fugitive PE rolling 12-month emission limitation is the total sum of the following equation:

$$FER = [(MSR \times E_f) \times (1 - CAP)] / 2000 \text{ lbs/ton}$$

where:

FER = Fugitive Particulate emissions, in tons per rolling 12 month period;
 MSR = Maximum metal processed rate, in tons, (57,320 tons, from the data provide by Honda);
 E_f = Emission factor, in lbs of PE/ton of metal, (3.2 lbs/ton of metal, Fire SCC 304000340); and
 CAP = Assumed capture efficiency, in %, (99.0% (0.990)), from data provided by Honda).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.3, of this permit.

e. Emission Limitation:

23.36 lb of CO stacked emissions/hr

The hourly CO emission limitation represent the emissions unit's potential to emit and was established by the following methodology:

$$HER = COER \times MMR$$

where:

HER = Hourly emission rate, in lbs of CO/hr;

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COER = Emission factor, in lbs/ton of metal processed, (1.77 lbs/ton processed, Honda's Emission Tests 2000); and
MMR = Maximum tons of metal processed per hour, (13.2 tons/hr, from Honda's Emission Activity Category form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the understanding that the maximum hourly metal processed will not exceed 13.2 tons/hr.

f. Emission Limitation:

51.24 tons of CO/ 12-month period, based on a rolling, 12-month summation, including fugitives.

Emissions Unit ID: P020

Applicable Compliance Method:

The annual emission limitations represents the emissions unit's potential to emit and was established by the following methodology:

$$\text{AER} = [(\text{COEF} \times \text{MMR}) + \{((\text{COER} \times (1/\text{CAP})) - \text{COER}) \times \text{MMR}\}] / 2000$$

where:

AER = Annual Emission Rate;

COER = Carbon monoxide Emission Rate (1.77 lbs/ton processed, Honda's Emission Test 2000);

CAP = Hooding Capture Efficiency, (based on Honda's best estimate on hooding capture of 99.0%, (0.990)); and

MMR = Maximum tons processed per 12-months (57,320, Honda's Emission Activity Form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.4, of this permit.

g. Emission Limitation:

11.48 lbs of OC stacked emissions/hr

The hourly OC emission limitation represent the emissions unit's potential to emit and was established by the following methodology:

$$\text{HER} = \text{COER} \times \text{MMR}$$

where:

HER = Hourly Emission Rate, in lbs of OC/hr;

OCER = Emission factor, in lbs/ton of metal processed, (0.87 lbs/ton processed, Honda's Emission Tests 2000); and

MMR = Maximum tons of metal processed per hour, (13.2 tons/hr, from Honda's Emission Activity Category form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the understanding that the maximum hourly metal processed will not exceed 13.2 tons/hr.

Emissions Unit ID: P020

h. Emission Limitation:

25.19 tons of OC/ 12-month period, based on a rolling, 12-month summation, including fugitives.

The annual emission limitations represents the emissions unit's potential to emit and was established by the following methodology:

$$\text{AER} = [(\text{OCEF} \times \text{MMR}) + (\{[(\text{OCER} \times (1/\text{CAP})) - \text{OCER}] \times \text{MMR} \})] / 2000$$

where:

AER = annual emission rate;

OCER = Organic Compound Emission Rate, (0.87 lbs/ton processed, Honda's Emission Test 2000);

CAP = Hooding Capture Efficiency, (based on Honda's best estimate on hooding capture of 99.0%, (0.990)); and

MMR = Maximum tons processed per 12-months (57,320, Honda's Emission Activity Form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.5, of this permit.

i. Emission Limitation:

Visible PE shall not exceed opacity, as a 6-minute average, from any baghouse stack nor 20% opacity from any roof vent serving this emission unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall conduct, or have conducted, emission testings on the baghouse vents to demonstrate compliance with the above combined allowable particulate emission limitations from this emission unit as well as the other emission units whose captures particulate emissions are vented to baghouses BH-4 and BH-6 and the CO emissions from this emission unit.

- a. The emission testing shall be conducted within 1 year prior to the expiration of this facility's Title V permit.
- b. The emission testing shall be conducted to demonstrate compliance with the

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allowable CO emission limitations.

- c. The emission testing shall be conducted to demonstrate compliance with the particulate emissions rate limitation of 0.005 grains/dscf, from any dust collectors or stacks associated with this emissions unit.
- d. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

CO: Methods 1-4, 10, and 25 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- e. 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 Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southwest District Office.

- 3. When requested, the permittee shall conduct, or have conducted, emission testings to

Emissions Unit ID: P020

demonstrate compliance with OC emission limitation from this emission unit.

- a. The emission testing shall be conducted within 1 year prior to the expiration of this facility's Title V permit.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable OC emission limitations.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

OC: Methods 1-4, 18, and 25 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- 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 Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southwest District Office.

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment - (P020) - Line no. 1 extraction/shakeout/sand separation and cooling with conveyors, separation drum, sorting/degating conveyors, and casting cooling conveyors, equipped with a baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Limit(s)

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

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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.

Operations, Property, and/or Equipment -(P075) - Continuous shotblast system #1 with in-line rocker barrel blast machine and scrap gantry elevator, equipped with a baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) to Avoid PSD threshold.	<p>The particulate emissions (PE) from baghouse # 6, which controls emissions from emissions unit P075, emissions unit P018, Rough Finish, and emissions unit P020, Line 1 Didion, shall not exceed 12.15 tons (PE)/ rolling 12-month period.</p> <p>The fugitive emissions from P075 shall not exceed 5.2 tons of PE/ rolling 12-month period.</p> <p>See Section II.2</p>
OAC rule 3745-17-07(A)(1)	Visible PE emissions from any baghouse vent that this emission unit is controlled by shall not exceed 20% opacity, as a 6-minute average.
OAC rule 3745-17-11(B)(1) Figure II curve P-1	The PE emissions shall not exceed 21.07 lbs per hour
OAC rule 3745-31-05(A)(3)(b)	See Section I.2.d.

2. Additional Terms and Conditions

- 2.a Permit to Install 05-13639 for this emissions unit takes into account the use of a baghouse system, when this emissions unit is in operation, with a maximum emission rate of 0.005 grains of particulate (PE) emissions per dry standard cubic feet (dscf) as a voluntary restriction as proposed by the permittee for purpose of constituting a Synthetic Minor under the applicable emission

Emissions Unit ID: P075

threshold of Prevention of Significant Deterioration (PSD) requirements.

- 2.b** This emission unit shall be enclosed (inside a building) in such a manner to minimize or eliminate any emissions that may be emitted through the building exhausts into the ambient air.
- 2.c** Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collectors or stacks, or to route emissions from other emissions units to the dust collectors and stacks associated with this emission unit as long as the control device associated the stack it is vented to has demonstrated an emission rate of 0.005 grains of PE/dscf or less.
- 2.d** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE) emissions from this emissions unit since the potential emissions are less than ten tons per year.

II. Operational Restrictions

- 1. The maximum operating hours for emissions units P075 shall not exceed 7200, based upon a rolling, 12 month summation of the operating hours.

The permittee has existing records of the 12-month rolling operating hours; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

- 2. The maximum amount of metal processed through emissions units P075 shall not exceed 60,627 tons per rolling 12-month period.

The permittee has existing records of the 12-month rolling on the amount of metal processed through Ferrous Line #1; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. the total operating hours;
 - b. the rolling, 12-month total operating hours for this emissions units. The rolling, 12-month summation of the total operating hours for this emissions unit (the total operating hours for the current month ("a") plus the total operating hours for the 11 previous calendar months);
 - c. the hours that baghouse # 6 was operated;
 - d. the particulate emissions (PE) rate from baghouse # 6, in grains per dry

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- standard cubic feet (g/dscf), 0.005 g/dscf or result from most recent stack test;
- e. the monthly PE from baghouse #6, in tons, (the summation of: $\{[(\text{"d"} \times 78,719 \text{ acfm}) \times (60 \text{ mins/hr}) \times (1\text{lb}/7,000)] \times \text{"a"}\} / 2,000 \text{ lbs/ton}$); and
 - f. the rolling, 12-month total PE from baghouse # 6. The rolling, 12-month summation of the total amount of PE (the total amount of PE for the current month ("e") plus the total amount of PE for the 11 previous calendar months).
2. The permittee shall maintain monthly records of the following information:
- a. the amount of metal processed in emissions unit P075, in tons;
 - b. the rolling, 12-month total metal processed in emissions unit P075. The rolling, 12-month summation of the total metal employed (the total amount of metal employed for the current month ("a") plus the total amount of metal employed for the 11 previous calendar months);
 - c. the monthly fugitive PE emissions, in tons, (the summation of: $\{[(\text{metal processed "a"} \times 17.0 \text{ lbs of PE/ton of metal employed, from Fire SCC 304000340,}) \times (1\text{-hooding capture efficiency (99.0\%), best engineering assumption)}] / 2000 \text{ lbs/ton}\}$; and
 - d. the rolling, 12-month total fugitive PE from P075. The rolling, 12-month summation of the total fugitive PE (the total amount of fugitive PE for the current month ("c") plus the total amount of fugitive PE for the 11 previous calendar months).
3. 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.

The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit is in operation. The monitoring equipment shall be 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.

Emissions Unit ID: P075

4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log;
 - a. the color of the emissions;

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- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify the following:
 - a. all exceedances of the combined rolling, 12-month period PE limitation of 12.15 tons from baghouse # 6, (emissions from emissions unit P018, emissions unit P075, Line 1 Shotblast, and emissions unit P020, Line 1 Didion,);
 - b. all exceedances of the rolling 12-month period metal processed of 60,627 tons per rolling 12-month period in emissions unit P075;
 - c. all exceedances of the rolling 12-month period fugitive PE limitation of 5.2 tons per rolling 12-month period from emissions unit P075; and/or
 - d. all exceedances of the rolling, 12-month period 7,200 operation hour limitation.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

2. The permittee shall submit quarterly deviation (excursion) reports that identify the all periods of time in which this emissions unit was in operation and the pressure drop across the baghouse(s) did not comply with the allowable range.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

3. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible PE were observed from any stack serving this emissions unit;
 - b. identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and
 - c. describe the corrective actions taken to eliminate the visible PE.

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These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- a. Emission Limitation:

21.07 lbs of PE/hr

The hourly emission limitation was established by the following methodology:

$$\text{HER} = 0.5782 \times (\text{U to the power of } 0.6458)$$

where:

HER = particulate emissions, in lbs/hr;

U = Uncontrolled particulate emissions, in lbs/hr (Fire, SCC 304000340, emission factor of , 17.0 lbs emitted/ton processed multiplied by 15.4 tons/hr maximum production).

Emission calculation is based on the requirements of OAC rule 3745-17-11(B)(1) Figure II, curve P-1.

Applicable Compliance Method:

Compliance with the above limitations is based on the 15.4 tons of metal processed being the maximum potential process rate for this emissions unit and emission testing demonstrating 0.005 grains/ dscf requirement.

- b. Emission Limitation:

The particulate emissions (PE) from baghouse # 6, which controls emissions from emissions unit P075, emissions unit P018, Rough Finish, and emissions unit P020, Line 1 Didion, shall not exceed 12.15 tons/ rolling 12-month period.

The combined rolling 12-month emission limitation is the total sum of the

Emissions Unit ID: P075

following equation for all of the above listed emissions units:

$$\text{AER} = [(\text{Af} \times \text{Ef} \times 60 \text{ mins/hr} \times \text{Cf}) \times \text{Ho}] / 2000$$

where:

AER = Particulate emissions, in tons per rolling 12 month period;
Af = Maximum Air Flow from Baghouse #4, in acfm, (78,719, specific acfm rates are from the data provide by Honda);
Ef = Emission factor of the control device, grains of PE per dscf, (0.005 grains/dscf, data from Honda and represents a voluntary restriction that Honda has requested to be limited to);
Cf = Conversion factor, (1 lbs/7,000 grains); and
Ho = Allowable rolling 12-month hours of operation limitation, (7,200 hrs, Honda's requested voluntary limitation).

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Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.1, of this permit.

c. Emission Limitation:

The fugitive particulate emissions (PE) from emissions unit P075, shall not exceed 0.52 tons (PE)/ rolling 12-month period.

The fugitive PE rolling 12-month emission limitation is the total sum of the following equation:

$$\text{FER} = [(\text{MSR} \times \text{Ef}) \times (1 - \text{CAP})] / 2000\text{lbs/ton}$$

where:

FER = Fugitive Particulate emissions, in tons per rolling 12 month period;
MSR = Maximum metal processed rate, in tons, (60,627 tons, from the data provide by Honda);

Ef = Emission factor, in lbs of PE/ton of metal, (17.0 lbs/ton of metal charged, Fire SCC 304000340); and

CAP = Assumed capture efficiency, in %, (99.9% (0.999), from data provided by Honda).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.2, of this permit.

d. Emission Limitation:

Visible PE shall not exceed opacity, as a 6-minute average, from any baghouse stack nor 20% opacity from any roof vent serving this emission unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

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2. The permittee shall conduct, or have conducted, emission testing for on any and all baghouses that this emissions unit is controlled by to demonstrate compliance with the allowable PE limitations.
 - a. The emission testing shall be conducted within 1 year prior to expiration of the Title V permit for this source (facility).
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable PE limitations.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emission units being controlled by the baghouse(s) are being operated at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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.

Operations, Property, and/or Equipment - (P075) - Continuous shotblast system #1 with in-line rocker barrel blast machine and scrap gantry elevator, equipped with a baghouse (terms in this permit supersede those in PTI 05-08921 issued on 8/27/97).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Limit(s)

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

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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.

Operations, Property, and/or Equipment -(P902) - Line no. 1 mold pouring and cooling with automatic pouring unit and electric furnace, equipped with a baghouse (terms in this permit supersede those in PTI 05-02421 issued on 6/8/88).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The stacked Carbon Monoxide (CO) emissions shall not exceed 16.24 lbs./hr</p> <p>See Section I.2.a., Section I.2.b., Section I.2.c., and Section I.2.d</p>

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OAC rule 3745-31-05(C) to Avoid PSD threshold.	<p>The particulate emissions (PE) from baghouse # 4, which controls emissions from emissions unit P902, emissions unit P020, Line I Didion, and emissions unit P087, Disc M/C, shall not exceed 11.53 tons (PE)/ rolling 12-month period.</p> <p>The Carbon Monoxide (CO) emissions shall not exceed 35.60 tons/ 12-month period, based on a rolling, 12-month summation, including fugitives.</p> <p>The Organic Compound (OC) emissions shall not exceed 3.47 tons/ 12-month period, based on a rolling, 12-month summation, including fugitives.</p> <p>1.42 tons of Nitrogen Oxides (NOx)/ 12-month period, based on a rolling, 12-month summation, including fugitives.</p> <p>0.85 tons of Sulfur Dioxide (SO2)/ 12-month period, based on a rolling, 12-month summation, including fugitives.</p> <p>The fugitive emissions from P902 shall not exceed 1.20 tons of PE/ rolling 12-month period.</p> <p>See Section II.1 and Section II.2</p>
OAC rule 3745-21-07(G)	The CO limitations specified by this rule is less stringent than the limitations established pursuant to OAC rule 3745-31-05(A)(3)
OAC rule 3745-17-07(A)(1)	Visible PE emissions from any roof vent that emits emissions into the ambient air from this emission unit shall not exceed 20% opacity, as a 6-minute average.
OAC rule 3745-17-11(B)(1)	The PE emissions shall not exceed 26.19 lbs per hour
OAC rule 3745-31-05(A)(3)(b)	See section A.2.e.

2. Additional Terms and Conditions

- 2.a** Permit to Install 05-13639 for this emissions unit takes into account the use of a baghouse system, when this emissions unit is in operation, with a maximum emission rate of 0.005 grains of particulate (PE) emissions per dry standard cubic feet (dscf) as a voluntary restriction as proposed by the permittee for purpose of constituting a Synthetic Minor under the applicable emission threshold of Prevention of Significant Deterioration (PSD) requirements.

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- 2.b This emission unit shall be enclosed (inside a building) in such a manner to minimize or eliminate any emissions that may be emitted through the building exhausts into the ambient air.
- 2.c Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collectors or stacks, or to route emissions from other emissions units to the dust collectors and stacks associated with this emission unit as long as the control device associated the stack it is vented to has demonstrated an emission rate of 0.005 grains of PE/dscf or less.
- 2.d The hourly CO emission limitation were established to reflect the maximum potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.
- 2.e The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE), organic compound (OC), sulfur dioxide (SO₂), and nitrogen oxides (NO_x) emissions from this emissions unit since the potential emissions are less than ten tons per year.

II. Operational Restrictions

1. The maximum operating hours for emissions units P902 shall not exceed 7200, based upon a rolling, 12 month summation of the operating hours.

The permittee has existing records of the 12-month rolling operating hours; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

2. The maximum amount of metal processed through emissions units P902 shall not exceed 57,320 tons per rolling 12-month period.

The permittee has existing records of the 12-month rolling on the amount of metal processed through Ferrous Line #1; therefore, there is no need for first 12 calendar months accumulating limitations to ensure the enforceability.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the total operating hours;
 - b. the rolling, 12-month total operating hours for this emissions units. The rolling, 12-month summation of the total operating hours for this emissions unit (the total

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operating hours for the current month ("a") plus the total operating hours for the 11 previous calendar months);

- c. the hours that baghouse # 4 was operated;
 - d. the particulate emissions (PE) rate from baghouse # 4, in grains per dry standard cubic feet (g/dscf), 0.005 g/dscf or result from most recent stack test;
 - e. the monthly PE from baghouse # 4, in tons, (the summation of: $\{[("d" \times 74,731 \text{ acfm}) \times (60 \text{ mins/hr}) \times (1\text{lb}/7,000)] \times "a" \} / 2,000 \text{ lbs/ton}$); and
 - f. the rolling, 12-month total PE from baghouse # 4. The rolling, 12-month summation of the total amount of PE (the total amount of PE for the current month ("e") plus the total amount of PE for the 11 previous calendar months).
2. The permittee shall maintain monthly records of the following information:
 - a. the amount of metal processed in emissions unit P902, in tons; and
 - b. the rolling, 12-month total metal processed in emissions unit P902. The rolling, 12-month summation of the total metal employed (the total amount of metal employed for the current month ("a") plus the total amount of metal employed for the 11 previous calendar months).
 3. The permittee shall maintain monthly records of the following information:
 - a. the carbon monoxide (CO) rate, in pounds per ton of metal processed, 1.23 lbs/ton of metal or result from most recent stack test;
 - b. the monthly CO emissions, in tons, (the summation of: $\{(\text{metal processed "Section III.3.a."} \times "a") + [(\text{metal processed "Section III.3.a."} \times "a") \times ((\text{"a"} \times 1/99.0\%) - "a")]\} / 2000 \text{ lbs/ton}$); and
 - c. the rolling, 12-month total fugitive CO emissions from P902. The rolling, 12-month summation of the total CO emissions (the total amount of CO emitted for the current month ("b") plus the total amount of CO emitted for the 11 previous calendar months).
 4. The permittee shall maintain monthly records of the following information:
 - a. the organic compound (OC) rate, in pounds per ton of metal processed, 0.12 lbs/ton of metal or result from most recent stack test;
 - b. the monthly OC emissions, in tons, (the summation of: $\{(\text{metal processed$

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"Section III.3.a." x "a") +[(metal processed "Section III.3.a." x "a") x (("a" x 1/99.0%) - "a")]] / 2000 lbs/ton}; and

- c. the rolling, 12-month total fugitive OC emissions from P902. The rolling, 12-month summation of the total OC emissions (the total amount of OC emitted for the current month ("b") plus the total amount of OC emitted for the 11 previous calendar months).
5. 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.

The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse(s) while the emissions unit is in operation. The monitoring equipment shall be 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.

6. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log;
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify the following:
 - a. all exceedances of the combined rolling, 12-month period PE limitation of 11.53 tons from baghouse # 4, (emissions from emissions unit P902, emissions unit P020, Line I Didion, and emissions unit P087, Disc M/C,);
 - b. all exceedances of the rolling 12-month period CO emission limitation of 35.60 tons from emissions unit P902;
 - c. all exceedances of the rolling 12-month period OC emission limitation of 3.47 tons from emissions unit P902;

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d. all exceedances of the rolling 12-month period metal processed of 57,320 tons per rolling 12-month period in emissions unit P902;

and/or

e. all exceedances of the rolling, 12-month period 7,200 operation hour limitation.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

2. The permittee shall submit quarterly deviation (excursion) reports that identify the all periods of time in which this emissions unit was in operation and the pressure drop across the baghouse(s) did not comply with the allowable range.

These quarterly deviation reports are due by the dates specified in Part I - General Terms and Conditions A.1.

3. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible PE were observed from any stack serving this emissions unit;
 - b. identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and
 - c. describe the corrective actions taken to eliminate the visible PE.

These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- a. Emission Limitation:

26.19 lbs of PE/hr

The hourly emission limitation was established by the following methodology:

$$AMR = 0.5782 \times (U \text{ to the power of } 0.6456)$$

where:

AMR = Allowable Mass Emission Rate, in lbs/hr;

U = Uncontrolled particulate emissions, in lbs/hr (Fire, SCC 304000318, emission factor of , 4.2 lbs emitted/ton of metal processed multiplied by 87.5 tons of metal processed /hr maximum).

Emission calculation is based on the requirements of OAC rule 3745-17-11(B)(1) Figure II, curve P-1.

Applicable Compliance Method:

Compliance with the above limitations is based on the 87.5 tons of metal processed being the maximum potential process rate for this emissions unit.

- b. Emission Limitation:

The particulate emissions (PE) from baghouse # 4, which controls emissions from this emissions unit shall not exceed 11.53 tons/ rolling 12-month period.

The combined rolling 12-month emission limitation is the total sum of the following equation for all of the above listed emissions units:

$$AER = [(Af \times Ef \times 60 \text{ mins/hr} \times Cf) \times Ho] / 2000$$

where:

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AER = Particulate emissions, in tons per rolling 12 month period;
 Af = Maximum Air Flow from Baghouse #4, in acfm, (74,731, specific acfm rates are from the data provide by Honda);
 Ef = Emission factor of the control device, grains of PE per dscf, (0.005 grains/dscf, data from Honda and represents a voluntary restriction that Honda has requested to be limited to);
 Cf = Conversion factor, (1 lbs/7,000 grains); and
 Ho = Allowable rolling 12-month hours of operation limitation, (7,200 hrs, Honda's requested voluntary limitation).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.1, of this permit.

c. Emission Limitation:

The fugitive particulate emissions (PE) from emissions unit P902, shall not exceed 1.20 tons (PE)/ rolling 12-month period.

The fugitive PE rolling 12-month emission limitation is the total sum of the following equation:

$$FER = [(MSR \times Ef) \times (1-CAP)] / 2000\text{lbs/ton}$$

where:

FER = Fugitive Particulate emissions, in tons per rolling 12 month period;
 MSR = Maximum metal processed rate, in tons, (57,320 tons, from the data provide by Honda);
 Ef = Emission factor, in lbs of PE/ton of sand, (4.2 lbs/ton of metal, Fire SCC 304000318); and
 CAP = Assumed capture efficiency, in %, (99.0% (0.990)), from data provided by Honda).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.3, of this permit.

d. Emission Limitation:

16.24 lb of CO stacked emissions/hr

The hourly CO emission limitation represent the emissions unit's potential to emit and was established by the following methodology:

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$$\text{HER} = \text{COER} \times \text{MMR}$$

where:

HER = Hourly emission rate, in lbs of CO/hr;

COER = Emission factor, in lbs/ton of metal processed, (1.23 lbs/ton processed, Honda's Emission Tests 2000); and

MMR = Maximum tons of metal processed per hour, (13.2 tons/hr, from Honda's Emission Activity Category form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the understanding that the maximum hourly metal processed will not exceed 13.2 tons/hr.

e. Emission Limitation:

35.60 tons of CO/ 12-month period, based on a rolling, 12-month summation, including fugitives.

Applicable Compliance Method:

The annual emission limitations represents the emissions unit's potential to emit and was established by the following methodology:

$$\text{AER} = [(\text{COEF} \times \text{MMR}) + (((\text{COERr} \times (1/\text{CAP})) - \text{COER}) \times \text{MMR})]/2000$$

where:

AER = annual emission rate;

COER = Carbon monoxide Emission Rate (1.23 lbs/ton processed, Honda's Emission Test 2000);

CAP = Hooding Capture Efficiency, (based on Honda's best estimate on hooding capture of 99.0%, (0.990)); and

MMR = Maximum tons processed per 12-months (57,320, Honda's Emission Activity Form).

Applicable Compliance Method:

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The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.4, of this permit.

f. Emission Limitation:

3.47 tons of OC/ 12-month period, based on a rolling, 12-month summation, including fugitives.

The annual emission limitations represents the emissions unit's potential to emit and was established by the following methodology:

$$\text{AER} = [(\text{OCEF} \times \text{MMR}) + ((\{(\text{OCER} \times (1/\text{CAP})) - \text{OCER}\} \times \text{MMR})]/2000$$

where:

AER = annual emission rate;

OCER = Organic Compound Emission Rate, (0.12 lbs/ton processed, Honda's Emission Test 2000);

CAP = Hooding Capture Efficiency, (based on Honda's best estimate on hooding capture of 99.0%, (0.990)); and

MMR = Maximum tons processed per 12-months (57,320, Honda's Emission Activity Form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of Sections III.5, of this permit.

g. Emission Limitation:

1.42 tons of Nitrogen Oxides (NOx)/ 12-month period, based on a rolling, 12-month summation, including fugitives.

The annual emission limitations represents the emissions unit's potential to emit and was established by the following methodology:

$$\text{AER} = [(\text{NOXER} \times \text{MMR}) + ((\{(\text{NOXER} \times (1-\text{CAP})) - \text{NOXER}\} \times \text{MMR})]/2000$$

where:

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AER = annual emission rate;
NOXER = Nitrogen Oxide Emission Rate, (0.05 lbs/ton processed, Honda's Emission Test 2002);
CAP = Hooding Capture Efficiency, (based on Honda's best estimate on hooding capture of , 99.0% (0.990)); and
MMR = Maximum tons processed per 12-months (57,320, Honda's Emission Activity Form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements to assure the rolling 12-month metal processed through this emissions unit does not exceed 57,320 tons.

h. Emission Limitation:

0.85 tons of Sulfur Dioxide (SO₂)/ 12-month period, based on a rolling, 12-month summation, including fugitives.

The annual emission limitations represents the emissions unit's potential to emit and was established by the following methodology:

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$$\text{AER} = [(\text{SO}_2\text{EF} \times \text{MMR}) + \{(\text{SO}_2\text{ER} \times (1-\text{CAP})) - \text{SO}_2\text{ER}\} \times \text{MMR}] / 2000$$

where:

AER = annual emission rate;

SO₂ER = Organic Compound Emission Rate, (0.03 lbs/ton processed, Honda's Emission Test 2000);

CAP = Hooding Capture Efficiency, (based on Honda's best estimate on hooding capture of 99.0%, (0.990)); and

MMR = Maximum tons processed per 12-months (57,320, Honda's Emission Activity Form).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements to assure the rolling 12-month metal processed through this emissions unit does not exceed 57,320 tons.

i. Emission Limitation:

Visible PE shall not exceed opacity, as a 6-minute average, from any baghouse stack nor 20% opacity from any roof vent serving this emission unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall conduct, or have conducted, emission testings on the baghouse vents to demonstrate compliance with the above combined allowable particulate emission limitations from this emission unit as well as the other emission units whose captures particulate emissions are vented to baghouses BH-4 and the CO emissions from this emission unit.
 - a. The emission testing shall be conducted within 1 year prior to the expiration of this facility's Title V permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable CO emission limitations.

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- c. The emission testing shall be conducted to demonstrate compliance with the particulate emissions rate limitation of 0.005 grains/dscf, from any dust collectors or stacks associated with this emissions unit.
- d. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

CO: Methods 1-4, 10, and 25 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- e. 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 Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southwest District Office.

- 3. When requested, the permittee shall conduct, or have conducted, emission testings to

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demonstrate compliance with OC emission limitation from this emission unit.

- a. The emission testing shall be conducted within 1 year prior to the expiration of this facility's Title V permit.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable OC emission limitations.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

OC: Methods 1-4, 18, and 25 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- 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 Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA 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 and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southwest District Office.

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment -(P902) - Line no. 1 mold pouring and cooling with automatic pouring unit and electric furnace, equipped with a baghouse (terms in this permit supersede those in PTI 05-02421 issued on 6/8/88).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Limit(s)

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