



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
JEFFERSON 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: 06-08385

Fac ID: 0641180064

DATE: 6/12/2008

Titanium Metals Corp.
Thomas Bottorf
PO Box 309 100 Titanium Way
Toronto, OH 43964

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

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 6/12/2008
Effective Date: 6/12/2008**

FINAL PERMIT TO INSTALL 06-08385

Application Number: 06-08385
Facility ID: 0641180064
Permit Fee: **\$1000**
Name of Facility: Titanium Metals Corp.
Person to Contact: Thomas Bottorf
Address: PO Box 309 100 Titanium Way
Toronto, OH 43964

Location of proposed air contaminant source(s) [emissions unit(s)]:
**100 Titanium Way
Toronto, Ohio**

Description of proposed emissions unit(s):
Plate Shotblasting Unit.

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

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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.

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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.

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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.

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

- 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.

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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.

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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.

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	9.08
PM10	7.01

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

None

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

None

Titanium Metals Corp.
 PTI Application: 06-08385
 Issued: 6/12/2008

Facility ID: 0641180064

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 - P904 - Plate Shotblasting Unit with baghouse, maximum annual production limitation of 30,000 tons/yr.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Pangborn Rotoblast Machine with Baghouse	
OAC rule 3745-31-05(C) (Synthetic minor to avoid PSD and voluntary restriction to avoid BAT)	Particulate matter (PM) emissions shall not exceed 9.08 tons as a rolling, 12-month summation. Particulate matter <10 microns (PM10) emissions shall not exceed 7.01 tons as a rolling, 12-month summation. See Section A.I.2.a below. See Section A.II.1 below.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by the rule.
OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
OAC rule 3745-17-08	The permittee shall implement reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Sections A.I.2.b through A.I.2.d
OAC rule 3745-17-08(B)(3)	The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or no visible particulate emissions from the exhaust stack, whichever is less stringent.
OAC rule 3745-17-11 (Figure II)	Particulate emissions (PE) shall not exceed 15.0 pounds per hour.

2. Additional Terms and Conditions

Emissions Unit ID: P904

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

- 2.a** Permit to Install 06-08385 for this air contaminant source takes into account the following voluntary restrictions, whenever this air contaminant source is in operation, with a minimum control efficiency of 99% and a minimum capture efficiency of 99% as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
- i. a throughput restriction of 30,000 tons per year; and,
 - ii. the use of a baghouse that achieves an outlet emission rate of 0.01 gr/dscf.
- 2.b** The material handling operations that are covered by this permit and subject to the requirements of OAC rule 3745-17-08(B) are listed below:
- i. shotblasting unit
- 2.c** The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:
- | <u>material handling operation(s)</u> | <u>control measure(s)</u> |
|---------------------------------------|------------------------------|
| shot blasting unit | enclosures, vent to baghouse |
- Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

II. Operational Restrictions

1. The maximum annual throughput for emissions unit P904 shall not exceed 30,000 tons as a rolling, 12-month summation. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the throughput specified in the following chart:

<u>Month(s)</u>	<u>Maximum Cumulative Throughput (tons)</u>
0-1	7,200
1-2	14,400
1-3	21,600
1-4	28,800

Emissions Unit ID: P904

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

1-5	30,000
1-6	30,000
1-7	30,000
1-8	30,000
1-9	30,000
1-10	30,000
1-11	30,000
1-12	30,000

After the first 12 calendar months of operation following the startup of emissions unit P904, compliance with the annual throughput limitation shall be based upon a rolling, 12-month summation of the monthly throughput rates.

2. The permittee shall not operate this emissions unit without the use of the baghouse.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the weekly check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee shall maintain monthly records of the following information:

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

- a. the throughput, in tons, for each month;
- b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the monthly throughput rates, in tons; and,
- c. during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative throughput rates, in tons, for each calendar month.

IV. Reporting Requirements

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

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

2. The permittee shall submit deviation (excursion) reports which identify the following exceedances:
 - a. the rolling, 12-month throughput limitation; and
 - b. for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative throughput limitation.

These reports shall be submitted in accordance with Section A.1 of the General Terms and Conditions of this permit.

V. Testing Requirements

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

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

- a. Emissions Limitation:

Particulate matter (PM) emissions shall not exceed 9.08 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limit shall be based upon the following equations:

$$\text{Tons PM/year (stack)} = \text{Grain loading}(0.01 \text{ gr/dscf}) \times (\text{lb}/7000 \text{ gr}) \times \text{Flow rate} \\ (18,000 \text{ scfm}) \times (60 \text{ min/hour}) \times (\text{ton}/2000 \text{ lbs}) \times (8760 \text{ hours/year}) = 6.76 \text{ TPY}$$

$$\text{Tons PM/year (fugitive)} = \text{Actual rolling, 12-month throughput}(\text{maximum of} \\ 30,000 \text{ tons/yr}) \times \text{PM emission factor}(15.5 \text{ lbs/ton}) \times (100\text{-capture} \\ \text{efficiency of } 99\% / 100) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.33 \text{ TPY}$$

$$\text{Total emissions (stack + fugitive)} = 6.76 \text{ TPY} + 2.33 \text{ TPY} = 9.08 \text{ TPY}$$

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

- b. Emissions Limitation:

Particulate matter <10 microns (PM10) emissions shall not exceed 7.01 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limit shall be based upon the following equations:

$$\text{Tons PM}_{10}/\text{year (stack)} = \text{Grain loading}(0.01 \text{ gr/dscf}) \times (\text{lb}/7000 \text{ gr}) \times \\ \text{Flow rate} (18,000 \text{ scfm}) \times (60 \text{ min/hour}) \times (\text{ton}/2000 \text{ lbs}) \times (8760 \\ \text{ hours/year}) = 6.76 \text{ TPY}$$

$$\text{Tons PM}_{10}/\text{year (fugitive)} = \text{Actual rolling, 12-month} \\ \text{throughput}(\text{maximum of } 30,000 \text{ tons/yr}) \times \text{PM}_{10} \text{ emission}$$

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

factor(1.70 lbs/ton) X (100-capture efficiency of 99% /100) X (1 ton/2000 lbs) = 0.26 TPY

Total emissions (stack + fugitive)= 6.76 TPY + 0.26 TPY = 7.01 TPY

If required, particulate emissions shall be determined according to test Method 201, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

c. Emissions Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

d. Emissions Limitation:

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

e. Emissions Limitation:

The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or no visible particulate emissions from the exhaust stack, whichever is less stringent.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and/or Method 22 (no visible particulate emissions limitation) and the procedures specified in OAC rule 3745-17-03(B)(10) and/or OAC rule 3745-17-03(B)(4).

f. Emissions Limitation:

Particulate emissions (PE) shall not exceed 15.0 pounds per hour.

Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

VI. Miscellaneous Requirements

1. None

Titanium Metals Corp.
 PTI Application: 06-08385
 Issued: 6/12/2008

Facility ID: 0641180064

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 - P904 - Plate Shotblasting Unit with baghouse

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

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

Emissions Unit ID: P904

Titanium Metals Corp.
PTI Application: 06-08385
Issued: 6/12/2008

Facility ID: 0641180064

SIC CODE 3356 SCC CODE 30301299 EMISSIONS UNIT ID P904
 EMISSIONS UNIT DESCRIPTION Plate Shotblasting Unit with baghouse
 DATE INSTALLED Upon issuance of the permit

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Appendix A		9.08		9.08
PM ₁₀	Appendix A		7.01		7.01
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No NESHAP? No PSD? No OFFSET POLICY? No

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

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____