



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
FRANKLIN 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: 01-12252

Fac ID: 0125043247

DATE: 5/13/2008

Unico Alloys and Metals, Inc.
Philip Baustian
1177 Joyce Ave
Columbus, OH 43219

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, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 5/13/2008
Effective Date: 5/13/2008**

FINAL PERMIT TO INSTALL 01-12252

Application Number: 01-12252
Facility ID: 0125043247
Permit Fee: **\$4500**
Name of Facility: Unico Alloys and Metals, Inc.
Person to Contact: Philip Baustian
Address: 1177 Joyce Ave
Columbus, OH 43219

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1177 Joyce Ave
Columbus, Ohio**

Description of proposed emissions unit(s):
Titanium shot blasting, torching hoods, degreasing, and crusher.

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. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 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. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

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

7. 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.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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

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

10. 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.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. 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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13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(s) covered by this permit.

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	2.3
PE	1.2

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. 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 - (L001) - Open top vapor degreaser (n-propyl bromide) with powered cover, spray nozzles, refrigerated freebord chiller, refrigerated condenser coil and carbon absorption system (300 lbs/hr)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) (to avoid BAT applicability)	Organic compound (OC) emissions shall not exceed 1.6 tons/yr. See section A.2.a below.
OAC rule 3745-21-09(O)(3)(a)&(b)	See sections A.2.b, A.2.c, A.2.d, B.1 and B.2 below.

2. Additional Terms and Conditions

- 2.a "Permit to Install 01-12252 for this air contaminant source takes into account the following rule-based restrictions specified in section A.2.b, A.2.b, and A.2.c (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3).
- 2.b The open top vapor degreaser shall be equipped with and shall employ a cover and safety switches as described below:
 - i. The cover shall be installed so that it can be opened and closed easily without disturbing the vapor zone.
 - ii. A condenser flow switch and thermostat (or other such device) shall shut off the sump heat, if the condenser coolant is either not circulating or too warm.
 - iii. If using a spray application, a spray safety switch shall shut off the spray

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pump if the vapor level drops below any fixed spray nozzle.

- iv. A vapor level control thermostat (or other such device) shall shut off the sump heat when the vapor level rises too high.
- v. A water flow switch or water pressure switch (or other such device) shall shut off the sump heat if the water in a water-cooled condenser has no flow or no pressure, whichever is being monitored.

[OAC rule 3745-21-09(O)(3)(a) and (b)]

- 2.c** The permittee shall install and employ a carbon adsorption system, that shall be operated at all times, except during maintenance, to control VOC emissions from the open top vapor degreaser. The carbon adsorption system shall be operated with a ventilation rate greater than or equal to 50 cubic feet per minute per square foot of air/solvent interface (when the downtime cover is open) and shall exhaust less than 25 parts per million of solvent by volume, averaged over a complete adsorption cycle.

[OAC rule 3745-21-09(O)(3)(c)(iv)]

- 2.d** The cover or door to the open top vapor degreaser shall open only when the dry part is actually entering or exiting the degreaser.

[OAC rule 3745-21-09(O)(3)(c)(iii)]

B. Operational Restrictions

1. The open top vapor degreaser shall be installed with a refrigerated chiller that shall be operated to control the temperature of the solvent during cleaning operations.

[OAC rule 3745-21-09(O)(3)(c)(ii)]

2. The open top vapor degreaser shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:

- a. The cover shall be kept closed at all times except when processing work loads through the degreaser.
- b. Solvent carry-out shall be minimized by:

Emissions Unit ID: **L001**

- i. racking parts so that solvent drains freely and is not trapped;
 - ii. moving parts in and out of the degreaser at less than 11 feet per minute;
 - iii. holding the parts in the vapor zone at least 30 seconds or until condensation ceases, whichever is longer;
 - iv. tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
 - v. allowing parts to dry within the degreaser for at least 15 seconds or until visually dry, whichever is longer.
- c. Porous and/or absorbent materials shall not be cleaned.
 - d. Workloads shall occupy no more than one-half of the degreaser's open-top area.
 - e. Solvent spraying shall only be conducted within the vapor level.
 - f. Solvent leaks shall be repaired immediately, or the degreaser shall be shut down.
 - g. Solvent waste shall only be stored in covered containers.
 - h. The degreaser shall be operated so that water cannot be visually detected in solvent exiting the water separator.
 - i. No ventilation fans shall be used near the degreaser opening.
 - j. When the cover is open, the open top vapor degreaser shall not be exposed to drafts greater than 131 feet per minute, as measured between 3 and 6 feet upwind and at the same elevation as the tank lip.
 - k. If a lip exhaust is used on the open top vapor degreaser, the ventilation rate shall not exceed 65 cubic feet per minute per square foot of degreaser open area, unless a higher rate is necessary to meet Occupational Safety and Health Administration requirements.
 - l. A permanent, conspicuous label, summarizing the operating procedures shall be posted on or near to the degreaser.

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[OAC rule 3745-21-09(O)(3)(d)]

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information:
 - a. the types of solvents employed in the open top vapor degreaser, including the chemical name(s) and concentration(s);
 - b. all maintenance conducted on the refrigerated chiller, including the date and activity; and
 - c. the temperature (or temperature range) at which each cleaning solvent is maintained.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

[OAC rule 3745-21-09(O)(5)-in part]

2. The permittee shall maintain records of the following information:
 - a. the types of solvents employed in the open top vapor degreaser, including the chemical name(s) and concentration;
 - b. all control equipment maintenance, including the date of replacement of the carbon or desorption of the carbon in the carbon adsorption unit; and
 - c. the results of any tests conducted to demonstrate compliance with the ventilation rate requirement of 50 cubic feet per minute, per square foot of air solvent interface; and/or the limitation of 25 parts per million solvent by volume, as an average over one adsorption cycle.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

[OAC rule 3745-21-09(O)(5)(a) and (b)]

3. The permittee shall maintain records of the following information, collected at the end

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of each year:

- a. the total cleaning solvent added to the open top vapor degreaser or the amount purchased for use in the emissions unit during the year;
 - b. the total amount of solvent collected for disposal and/or recovery and shipped off-site during the year; and
 - c. the estimated annual VOC emissions from this emissions unit, calculated using the difference between the solvent used or purchased and the used solvent shipped offsite, adjusting the units to calculate the emissions in tons/year.
4. Modeling to demonstrate compliance with the "Toxic Air Contaminant Statute" in ORC 3704.03(F)(4)(b) was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air

Emissions Unit ID: L001

contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[ORC 3704.03(F)(3)(c) and F(4)]

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports documenting any period of time during which the refrigerated chiller was not in operation during cleaning operations, and/or any period of time during which the open top vapor degreaser was not operated and maintained and/or its solvents handled in accordance with the requirements of this permit.

[OAC rule 3745-21-09(O)(3)(c)(ii)]

2. The permittee shall submit quarterly deviation reports documenting any period of time in which the carbon adsorption system was not provided ventilation greater than or equal to 50 cubic feet per minute per square foot of air/solvent interface (when the cover was open) and/or the carbon adsorption system exhausted more than 25 parts per million of solvent, averaged over one complete adsorption cycle, during cleaning operations; and/or any period of time during which the open top vapor degreaser was not operated and maintained and/or its solvents handled in accordance with the requirements of this permit.

[OAC 3745-21-09(O)(3)(c)(iv)]

3. The permittee shall submit quarterly deviation reports documenting any period of time during which the cover or door was open when parts were not actually entering or exiting the open top vapor degreaser; and/or any period of time during which the open top vapor degreaser was not operated and maintained and/or its solvents handled in accordance with the requirements of this permit..

[OAC rule 3745-21-09(O)(3)(c)(iii)]

E. Testing Requirements

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

Emission Limitation:

OC emissions shall not exceed 1.6 tons/yr

Emissions Unit ID: L001

Applicable Compliance Method

The permittee may demonstrate compliance with the annual allowable OC emission limitation by multiplying an emission factor of 0.015 lb OC/ft² (SCC 4-01-002-17) times the top opening of 24 square feet equal 0.36 lb OC/hr multiplying by the annual operating hours (8,760 hours/yr) and dividing by 2,000 lbs/ton equal 1.6 tons OC/yr.

2. The permittee shall quantify VOC emissions through a material balance test, conducted for a sufficient period of time to compute an average emission rate. The following procedures shall be implemented in order to perform this material balance test and document the average VOC emissions from this emissions unit:
 - a. the degreaser sump shall be cleaned before testing begins;
 - b. record the amount of initial solvent and make-up solvent added to the tank with a flow meter or other means of measurement of the volume or weight;
 - c. maintain a record of the type and amount or weight of work load or parts degreased/cleaned each day or over the period of the test;
 - d. at the end of the test period (which can coincide with the normal solvent replacement cycle) pump out the used solvent and measure the amount, using a flow meter or other means of measurement of the volume or weight;
 - e. record the time of averaging for the test period and/or the number of parts cleaned, i.e., the number of hours or days passing and/or the number of parts cleaned, from the time fresh solvent is first added to the solvent cleaner ("b") to the removal of the used solvent;
 - f. bottle a sample of the used solvent and have it analyzed* for the percent oil, metal chips, and other contaminants;
 - g. calculate** the total of VOC emissions from the emissions unit during the test period, which shall equal the total solvent added to the tank minus the solvent contained in the recovered used solvent sent offsite for disposal or recovery; and
 - h. calculate the average VOC emissions rate by dividing the total emissions calculated in "g" by the total hours of the test period or total parts cleaned during the test period as recorded in "e".

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- * The oil and solvent proportions can be estimated by weighing samples of used solvent before and after boiling off the solvent.
- ** If solvent measurements are recorded by volume the density of the solvent shall be used to convert gallons to pounds.

[OAC rule 3745-21-10(D)]

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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 - (L002) - Conveyorized vapor degreaser (n-propyl bromide) with spray nozzles, refrigerated freeboard chiller, carbon adsorption system, distillation column and carbon regeneration evaporator (1,000 lbs/hr)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) (to avoid BAT applicability)	Organic compound (OC) emissions shall not exceed 0.7 ton/yr. See section A.2.a below.
OAC rule 3745-21-09(O)(4)(c)	See sections A.2.b and B.1 below.

2. Additional Terms and Conditions

- 2.a "Permit to Install 01-12252 for this air contaminant source takes into account the following rule-based restrictions specified in sections A.2.b, A.2.c, A.2.d, and A.2.e (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
- 2.b The conveyorized vapor degreaser shall retain the parts in the vibrating vertical auger for a sufficient amount of time to prevent cleaned parts from carrying out solvent liquid or vapor.

[OAC rule 3745-21-09(O)(4)(b)]
- 2.c The following safety switches shall be installed, operated, and maintained for the conveyorized degreaser where the solvent is heated to its boiling point:
 - i. a condenser flow switch and thermostat (or any other device serving the same purpose) that shuts off the sump heat if the condenser coolant is either not circulating or too warm; and
 - ii. a vapor level control thermostat (or any other device serving the same

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purpose) that shuts off the sump heat when the vapor level rises too high.

[OAC rule 3745-21-09(O)(4)(c)]

- 2.d** The permittee shall install and employ a carbon adsorption system, that shall be operated at all times, except during maintenance, to control VOC emissions from the conveyorized degreaser. The carbon adsorption system shall be operated with a ventilation rate greater than or equal to 50 cubic feet per minute per square foot of air/solvent interface (when downtime covers are open) and shall exhaust less than 25 parts per million of solvent by volume, averaged over a complete adsorption cycle.

[OAC rule 3745-21-09(O)(4)(a)(ii)]

- 2.e** The conveyorized degreaser shall be installed with a refrigerated chiller that shall be operated to control the temperature of the solvent during cleaning operations.

[OAC rule 3745-21-09(O)(4)(a)(i)]

B. Operational Restrictions

1. The conveyorized degreaser shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
 - a. Workplace fans shall not be placed near the degreaser opening, and exhaust ventilation shall not exceed 65 cubic feet per minute per square foot of degreaser opening, unless a higher rate is necessary to meet Occupational Safety and Health Administration requirements.
 - b. Openings to the conveyorized degreaser shall be minimized during operation, so that entrances and exits silhouette workloads, with an average clearance between the parts and the edge of the degreaser opening of less than 10 percent of the width of the opening.
 - c. The conveyorized degreaser shall be provided with downtime covers for closing off the entrance and exit during shutdown hours.
 - d. Emissions from carry-out shall be minimized by:

Emissions Unit ID: L002

- i. racking parts so that solvent drains freely from parts and is not trapped; and
 - ii. maintaining the vertical conveyor speed at less than 11 feet per minute.
- e. Waste solvent shall be stored in covered containers.
- f. Solvent leaks shall be repaired immediately, or the degreaser shall be shut down.
- g. The conveyORIZED degreaser shall be operated such that water cannot be visually detected in solvent exiting the water separator.
- h. Downtime covers shall be placed over entrances and exits of the conveyORIZED degreaser at all times when the conveyors and exhausts are not being operated.
- i. Porous and/or absorbent materials shall not be cleaned in the conveyORIZED degreaser.

[OAC rule 3745-21-09(O)(4)(e)]

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information:
 - a. the types of solvents employed in the conveyORIZED degreaser, including the chemical name(s) and concentration;
 - b. all control equipment maintenance, including the date of replacement of the carbon or desorption of the carbon in the carbon adsorption unit;
 - c. all maintenance conducted on the refrigerated chiller, including the date and activity. and
 - d. the results of any tests conducted to demonstrate compliance with the ventilation rate requirement of 50 cubic feet per minute, per square foot of air solvent interface; and the limitation of 25 parts per million solvent by volume, as an average over one adsorption cycle.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

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[OAC rule 3745-21-09(O)(5)(a) and (b)]

2. The permittee shall maintain records of the following information, collected at the end of each year:
 - a. the total cleaning solvent added to the conveyORIZED degreaser or the amount purchased for use in the emissions unit during the year;
 - b. the total amount of solvent collected for disposal and/or recovery and shipped off-site during the year; and
 - c. the estimated annual VOC emissions from this emissions unit, calculated using the difference between the solvent used or purchased and the used solvent shipped offsite, adjusting the units to calculate the emissions in tons/year.
[OAC rule 3745-21-09(O)(5)-in part]

3. Modeling to demonstrate compliance with the "Toxic Air Contaminant Statute" in ORC 3704.03(F)(4)(b) was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[ORC 3704.03(F)(3)(c) and F(4)]

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports documenting any period of time in which the carbon adsorption system was not provided ventilation greater than or equal to 50 cubic feet per minute per square foot of air/solvent interface (when the cover(s) was/were open) and/or the carbon adsorption system exhausted more than 25 parts per million of solvent, averaged over one complete adsorption cycle.

[OAC rule 3745-21-09(O)(4)(a)(ii)]

2. The permittee shall submit quarterly deviation reports documenting any period of time

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during which the refrigerated chiller was not in operation during cleaning operations; and/or any period of time during which the conveyORIZED degreaser was not operated and maintained and/or its solvents handled in accordance with the requirements of this permit.

[OAC rule 3745-21-09(O)(4)(a)(i)]

E. Testing Requirements

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

Emission Limitation: OC emissions shall not exceed than 0.7 ton/yr

Applicable Compliance Method

The permittee may demonstrate compliance with the annual allowable OC emission limitation by multiplying an emission factor of 0.0046 lb OC/ft² (SCC 4-01-002-35) times the vapor to air ratio of 34 square feet equal 0.156 lb OC/hr multiplied times the annual operating hours (8,760 hours/yr), and dividing by 2,000 lbs/ton equal 0.7 ton OC/yr.

2. The permittee shall quantify VOC emissions through a material balance test, conducted for a sufficient period of time to compute an average emission rate. The following procedures shall be implemented in order to perform this material balance test and document the average VOC emissions from this emissions unit:
 - a. the degreaser sump shall be cleaned before testing begins;
 - b. record the amount of initial solvent and make-up solvent added to the tank with a flow meter or other means of measurement of the volume or weight;
 - c. maintain a record of the type and amount or weight of work load or parts degreased/cleaned each day or over the period of the test;
 - d. at the end of the test period (which can coincide with the normal solvent replacement cycle) pump out the used solvent and measure the amount, using a flow meter or other means of measurement of the volume or weight;
 - e. record the time of averaging for the test period and/or the number of parts cleaned, i.e., the number of hours or days passing and/or the number of parts

Emissions Unit ID: **L002**

cleaned, from the time fresh solvent is first added to the solvent cleaner ("b") to the removal of the used solvent;

- f. bottle a sample of the used solvent and have it analyzed* for the percent oil, metal chips, and other contaminants;
- g. calculate** the total of VOC emissions from the emissions unit during the test period, which shall equal the total solvent added to the tank minus the solvent contained in the recovered used solvent sent offsite for disposal or recovery; and
- h. calculate the average VOC emissions rate by dividing the total emissions calculated in "g" by the total hours of the test period or total parts cleaned during the test period as recorded in "e".

* The oil and solvent proportions can be estimated by weighing samples of used solvent before and after boiling off the solvent.

** If solvent measurements are recorded by volume the density of the solvent shall be used to convert gallons to pounds.

[OAC rule 3745-21-10(D)]

F. Miscellaneous Requirements

None

Issued: 5/13/2008

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. 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 - (P001) - Crushers for turnings (nickel alloy) with detergent wash, water rinse and electric dryer (3,000 lbs/hr)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) (to avoid BAT applicability)	Particulate emissions (PE) emissions shall not exceed 0.65 ton/yr. See section A.2.a.
OAC rule 3745-17-07(B)(1)	Visible fugitive PE from vents, windows and/or doors from the building housing this emissions unit shall not exceed 20% opacity, as a 3-minute average.
OAC rule 3745-17-11 (A)(2)	See section A.2.b.

2. Additional Terms and Conditions

- 2.a "Permit to Install 01-12252 for this air contaminant source takes into account the following voluntary restrictions (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
 - i. the use of oiled metal turnings within a partially enclosed shredder; and
 - ii. processing of shredded turnings in detergent wash with rinse prior to electric drying.
- 2.b The use of oiled turnings in the shredder and detergent wash with rinse prior to the dryer is integral to the operation of this emissions unit. Therefore, this emissions unit is operating in compliance with this rule as long as the permittee maintains compliance with the terms and conditions of this permit.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

None

D. Reporting Requirements

None

E. Testing Requirements

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

a. Emission Limitation: PE emissions shall not exceed 0.65 ton/yr.

Applicable Compliance Method

The permittee may demonstrate compliance with the annual allowable PE limitation above by multiplying the maximum hourly controlled PE rate [(0.1 lb PE/ton SCC Code 3-04-010-07) x 1.5 tons = 0.15 lb/hr] multiplied times the annual operating hours (8,760 hours/yr), and then dividing by 2,000 lbs/ton equal 0.65 ton PE/yr.

b. Emission Limitation: Visible fugitive PE from vents, windows and/or doors from the building housing this emissions unit shall not exceed 20% opacity, as a 3-minute average.

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 and the procedures are specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

Issued: 5/13/2008

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. 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 - (P002) - 2 metal parts torching and cutting booths (titanium or nickel alloys) vented to a baghouse with horizontal stack (1,500 lbs/hr)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) (to avoid BAT applicability)	Particulate emissions (PE) shall not exceed 0.1 ton/yr. See section A.2.a.
OAC rule 3745-17-07(A)(1)(b)	Visible PE from the exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-17-11(A)(2)	See section A.2.b.

2. Additional Terms and Conditions

- 2.a "Permit to Install 01-12252 for this air contaminant source takes into account the following voluntary restrictions (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
 - i. use of a baghouse system, whenever this air contaminant source is in operation, with a minimum 95% capture efficiency with venting to a baghouse that achieves 99% control efficiency, by weight for PE.
- 2.b The operation of the dust collector is integral to the operation of the shot blast. Therefore, this emissions unit is operating in compliance with this rule as long as the permittee maintains compliance with the terms and conditions of this permit.

B. Operational Restrictions

Issued: 5/13/2008

1. The pressure drop across the baghouse controlling emissions from emissions unit shall be maintained within the range of 3 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

Whenever the monitored value for the pressure drop deviates from the limit or range specified in this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Emissions Unit ID: **P002**

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the date described in Part 1- General Terms and Condition of this permit under section (A)(1).

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method.
 - a. Emission Limitation: Particulate emissions (PE) shall not exceed 0.1 ton/yr.

Applicable Compliance Method

The permittee may demonstrate compliance with the annual allowable PE limitation above by multiplying the maximum hourly controlled PE rate [(5.2 pounds PM10/1000 lb metal SCC 3-09-052-54) x 3000 lbs x (0.90 capture) x (1 - 0.99) = 0.016 lb/hr] by the annual operating hours (8,760hours/yr) and then dividing by 2000 lbs/ton equal 0.07 ton/yr.

- b. Emission Limitation: Visible PE from the exhaust stack shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

Issued: 5/13/2008

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

Issued: 5/13/2008

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. 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 - (P003) - 2 Wheelabrator shotblasters (titanium alloys) vented to baghouse with horizontal stack (2,000 lbs/hr)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) (to avoid BAT applicability)	Particulate emissions (PE) shall not exceed 0.3 ton/yr. See section A.2.a.
OAC rule 3745-17-07(A)(1)(b)	Visible PE from the exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-17-11 (A)(2)	See section A.2.b.

2. Additional Terms and Conditions

- 2.a Permit to Install 01-12252 for this air contaminant source takes into account the use of a baghouse system, whenever this air contaminant source is in operation, with a minimum 100% capture efficiency with venting to a baghouse that achieves 99% control efficiency, by weight for PE, as a voluntary restriction. The permittee proposed this restriction for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05.
- 2.b The operation of the dust collector is integral to the operation of the shot blast. Therefore, this emissions unit is operating in compliance with this rule as long as the permittee maintains compliance with the terms and conditions of this permit.

B. Operational Restrictions

1. The pressure drop across the baghouse controlling emissions from emissions unit shall be maintained within the range of 2 to 4 inches of water while the emissions unit is in operation.

Unico Alloys and Metals, Inc.
DTI Application: 01-12252

Facility ID: 0125043247

Emissions Unit ID: P003

Issued: 5/13/2008**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

Whenever the monitored value for the pressure drop deviates from the limit or range specified in this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

Issued: 5/13/2008

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the date described in Part 1- General Terms and Condition of this permit under section (A)(1).

E. Testing Requirements

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

- a. Emission Limitation: PE shall not exceed 0.3 ton/yr.

Applicable Compliance Method

The permittee may demonstrate compliance with the annual allowable PE limitation above by multiplying the maximum hourly controlled PE rate $[(0.69 \text{ pounds PM} / 1,000 \text{ lbs SCC 3-09-002-04}) \times 1,000 \text{ lbs/hr} \times (1 - 0.99)] = 0.01 \text{ lbs PE/hr}$ multiplied times the annual operating hours (8,760 hours/yr) and dividing by 2000 lbs/ton equal 0.03 ton/yr.

- b. Emission Limitation: Visible PE from the exhaust stack shall not exceed 20% opacity, as a six-minute average.

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 and the procedures are specified in OAC rule 3745-17-03(B)(1).

Unico Alloys and Metals, Inc.
DTI Application: 01-12252

Facility ID: 0125043247

Emissions Unit ID: P003

F. Miscellaneous Requirements

None

Issued: 5/13/2008

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. 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 - (P004) - Coyote shotblaster, Pangborn shotblaster, and 2 Wheelabrator shotblasters (nickel-based alloy turnings) vented to baghouse with horizontal stack (6,000 lbs/hr)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C) (to avoid BAT applicability)	Particulate emissions (PE) shall not exceed 0.18 ton/yr. See section A.2.a.
OAC rule 3745-17-07(A)(1)(b)	Visible PE from the exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-17-11 (A)(2)	See section A.2.b.

2. Additional Terms and Conditions

- 2.a Permit to Install 01-12252 for this air contaminant source takes into account the use of a baghouse system, whenever this air contaminant source is in operation, with a minimum 100% capture efficiency with venting to a baghouse that achieves 99% control efficiency, by weight for PE, as a voluntary restriction. The permittee proposed this restriction for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05.
- 2.b The operation of the dust collector is integral to the operation of the shot blast. Therefore, this emissions unit is operating in compliance with this rule as long as the permittee maintains compliance with the terms and conditions of this permit.

B. Operational Restrictions

1. The pressure drop across the baghouse controlling emissions from emissions unit shall be maintained within the range of 2 to 4 inches of water while the emissions unit is in

Issued: 5/13/2008

Emissions Unit ID: **P004**

operation.

Issued: 5/13/2008**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

Whenever the monitored value for the pressure drop deviates from the limit or range specified in this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

Emissions Unit ID: **P004**

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the date described in Part 1- General Terms and Condition of this permit under section (A)(1).

E. Testing Requirements

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

- a. Emission Limitation: PE shall not exceed 0.18 ton/yr.

Applicable Compliance Method

The permittee may demonstrate compliance with the annual allowable PE limitation above by multiplying the maximum hourly controlled PE rate [(0.69 pounds PM /1,000 lbs SCC 3-09-002-04) x 6,000 lbs/hr x (1 - 0.99) = 0.04 lb PE/hr] multiplied times the annual operating hours (8,760 hours/yr), and then dividing by 2000 lbs/ton equal 0.18 ton/yr.

- b. Emission Limitation: Visible PE from the exhaust stack shall not exceed 20% opacity, as a six-minute average.

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 and the procedures are specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

Issued: 5/13/2008

Emissions Unit ID: **P004**

None

Emissions Unit ID: P004

SIC CODE SCC CODE EMISSIONS UNIT ID

EMISSIONS UNIT DESCRIPTION

DATE INSTALLED

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Non attainment				1.6
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

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

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: _____

Unico Alloys and Metals, Inc.
 PTI Application: 01-12252
 Issued: 5/13/2008

Facility ID: 0125043247

Emissions Unit ID: P004

SIC CODE 5093 SCC CODE 40100235 EMISSIONS UNIT ID L002

EMISSIONS UNIT DESCRIPTION Open top vapor degreaser (n-propyl bromide)with cover, refrigerated condenser, carbon absorption system, distillation column and carbon regeneration evaporator (1,000 lbs/hr)

DATE INSTALLED 06/2008

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Non attainment				0.7
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:
 NSPS? NESHAP? PSD? OFFSET POLICY?

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

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES NO

IDENTIFY THE AIR CONTAMINANTS: _____

Emissions Unit ID: P004

SIC CODE 5093 SCC CODE 30401011 EMISSIONS UNIT ID P001
 EMISSIONS UNIT DESCRIPTION Crushers for turnings (nickel alloy) followed by detergent wash and electric dryer(3,000 lbs/hr)
 DATE INSTALLED 08/2005

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	non attainment				10
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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: _____

Unico Alloys and Metals, Inc.
 PTI Application: 01-12252
 Issued: 5/13/2008

Facility ID: 0125043247

Emissions Unit ID: P004

SIC CODE 5093 SCC CODE 3-09-052-54 EMISSIONS UNIT ID P002
 EMISSIONS UNIT DESCRIPTION 2 metal parts torching and cutting booths (titanium or nickel alloys)vented to a baghouse with horizontal stack(1,500 lbs/hr)
 DATE INSTALLED 08/2005

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	Non attainment				10
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Enter Determination

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: _____

Emissions Unit ID: P004

SIC CODE 5093 SCC CODE 3-09-002-04 EMISSIONS UNIT ID P003
 EMISSIONS UNIT DESCRIPTION 2 Wheelabrator shotblasters (titanium alloys)vented to baghouse with horizontal stack (2,000 lbs/hr)
 DATE INSTALLED 08/2005

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	Non attainment				10
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

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

Enter Determination

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: _____

Unico Alloys and Metals, Inc.
PTI Application: 01-12252
Issued: 5/13/2008

Facility ID: 0125043247

Emissions Unit ID: **P004**

SIC CODE 5093 SCC CODE 3-09-002-04 EMISSIONS UNIT ID P004

EMISSIONS UNIT DESCRIPTION Coyote shotblaster, Pangborn shotblaster, and 2 Wheelabrator shotblasters (nickel-based alloy turnings) vented to baghouse with horizontal stack (6,000 lbs/hr)

DATE INSTALLED 08/05

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	Non attainment				1.8
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Enter Determination

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: _____