



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

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

Lazarus Gov.  
Center

**RE: FINAL PERMIT TO INSTALL  
MARION COUNTY  
Application No: 03-3268**

**CERTIFIED MAIL**

**DATE:** October 6, 1999

Hildreth Manufacturing, LLC  
Terry Hildreth  
1657 Cascade Drive  
Marion, OH 43302

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

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

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

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

Very truly yours,

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

cc: USEPA  
DAPC, NWDO



**Permit To Install  
Terms and  
Conditions**

**Issue Date: October 6, 1999  
Effective Date: October 6, 1999**

**FINAL PERMIT TO INSTALL 03-3268**

Application Number: 03-3268  
APS Premise Number: 0351010070  
Permit Fee: **\$4000**  
Name of Facility: Hildreth Manufacturing, LLC  
Person to Contact: Terry Hildreth  
Address: 1657 Cascade Drive  
Marion, OH 43302

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1657 Cascade Drive  
Marion, Ohio**

Description of proposed emissions unit(s):  
**COPPER-BERYLLIUM FOUNDRY INCLUDING 2 ELECTRIC INDUCTION FURNACES, POUR,  
DROSS REMOVAL, CRUCIBLE CLEAN, SHAKEOUT, CORE CLEAN, GRIND & CUT.**

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

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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 Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. 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

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)**

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 are inadequate 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 prove to be inadequate 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

#### **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.

#### **13. Source Operation and Operating Permit Requirements After Completion of**

**Hildreth Manufacturing, LLC**

PTI Application: **03-3268**

**October 6, 1999**

Facility ID: **0351010070**

### **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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**Hildreth Manufacturing, LLC**  
PTI Application: **03-3268**  
**October 6, 1999**

Facility ID: **0351010070**

**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>
PE	0.26

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Electric induction furnace #1	OAC rule 3745-31-05	0.00094 lb PE/hr, 0.0041 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

- 2.c The following are control requirements for emissions unit P001: the use of a nitrogen blanket and a baghouse .

**B. Operational Restrictions**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section 61.32 and for the allowable mass emission rate for particulate matter.
  - c. The following test method shall be employed to demonstrate compliance with the

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**Hildre**

PTI A<sub>1</sub>

**October 6, 1999**

Emissions Unit ID: **P001**

allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

**Hildreth Manufacturing, LLC**PTI Application: **02 2768****Octob**Facility ID: **0351010070**Emissions Unit ID: **P001**

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

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.00094 lb PE/hr, 0.0041 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance

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**Hildre**  
**PTI A<sub>1</sub>**  
**October 6, 1999**

Emissions Unit ID: **P001**

with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Electric induction furnace #2	OAC rule 3745-31-05	0.00094 lb PE/hr, 0.0041 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

**Hildreth Manufacturing, LLC**

PTI Application: **02 2760**

**Octob**

Facility ID: **0351010070**

Emissions Unit ID: **P002**

- 2.c** The following are control requirements for emissions unit P001: the use of a nitrogen blanket and a baghouse .

**B. Operational Restrictions**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section 61.32 and for the allowable mass emission rate for particulate matter.
  - c. The following test method shall be employed to demonstrate compliance with the

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**Hildre**

PTI A<sub>1</sub>

**October 6, 1999**

Emissions Unit ID: **P002**

allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.00094 lb PE/hr, 0.0041 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

**Hildreth Manufacturing, LLC**

PTI Application: **02 2760**

**Octob**

Facility ID: **0351010070**

Emissions Unit ID: **P002**

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Pouring station	OAC rule 3745-31-05	0.022 lb PE/hr, 0.098 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	See A.2.a
	OAC rule 3745-17-11(B)(2)	See A.2.a
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a The emissions limitation based on this applicable rules is less stringent than the limitation established pursuant to OAC rule 3745-31-05.
- 2.b The following are control requirements for emissions unit P001: the use of a baghouse.

**B. Operational Restrictions**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's

Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section 61.32 and for the allowable mass emission rate for particulate matter.
  - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

**Hildreth Manufacturing, LLC**PTI Application: **02 2768****Octob**Facility ID: **0351010070**Emissions Unit ID: **P003**

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

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.022 lb PE/hr, 0.098 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

**Hildreth Manufacturing, LLC**

PTI Application: **02 2768**

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Facility ID: **0351010070**

Emissions Unit ID: **P003**

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Dross removal	OAC rule 3745-31-05	0.0015 lb PE/hr, 0.0066 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

2.c The following are control requirements for emissions unit P001: the use of a baghouse.

## **B. Operational Restrictions**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

## **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

## **E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section

**Hildreth Manufacturing, LLC**

PTI Application: **02 2768**

**Octob**

Facility ID: **0351010070**

Emissions Unit ID: **P004**

61.32 and for the allowable mass emission rate for particulate matter.

- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.0015 lb PE/hr, 0.0066 TPY PE

- Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

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**October 6, 1999**

Emissions Unit ID: **P004**

b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Crucible clean-out	OAC rule 3745-31-05	0.00060 lb PE/hr, 0.0026 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

2.c The following are control requirements for emissions unit P001: the use of a baghouse.

## B. Operational Restrictions

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

## D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

## E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section 61.32 and for the allowable mass emission rate for particulate matter.

- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Emissions Unit ID: P005

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.00060 lb PE/hr, 0.0026 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

- b. Emission Limitation:

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Emissions Unit ID: **P005**

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Shakeout operation	OAC rule 3745-31-05	0.0072 lb PE/hr, 0.032 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

2.c The following are control requirements for emissions unit P001: the use of a baghouse.

## B. Operational Restrictions

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

## D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

## E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section 61.32 and for the allowable mass emission rate for particulate matter.

- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.0072 lb PE/hr, 0.032 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**Hildreth Manufacturing, LLC**

PTI Application: **02 2760**

**Octob**

Facility ID: **0351010070**

Emissions Unit ID: **P006**

b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Core clean-out	OAC rule 3745-31-05	0.0031 lb PE/hr, 0.014 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

2.c The following are control requirements for emissions unit P001: the use of a baghouse.

**B. Operational Restrictions**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section

**Hildreth Manufacturing, LLC**

PTI Application: **02 2768**

**Octob**

Facility ID: **0351010070**

Emissions Unit ID: **P007**

61.32 and for the allowable mass emission rate for particulate matter.

- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.0031 lb PE/hr, 0.014 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**Hildreth Manufacturing, LLC**

PTI Application: **02 2760**

**Octob**

Facility ID: **0351010070**

Emissions Unit ID: **P007**

b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Two grinders and two cut-off machines	OAC rule 3745-31-05	0.0050 lb PE/hr, 0.022 TPY PE  No visible particulate emissions from the baghouse exhaust stack.  Control requirements (See A.2.c)
	OAC rule 3745-17-07(A)	None (See A.2.a)
	OAC rule 3745-17-11(B)(2)	None (See A.2.b)
	40 CFR Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period (0.022 lb/day, 0.0040 TPY)

**2. Additional Terms and Conditions**

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply since the facility is located in Marion county.

2.c The following are control requirements for emissions unit P001: the use of a baghouse.

## **B. Operational Restrictions**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittee 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 result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The pressure drop across the baghouse shall be maintained within the range of 1 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 monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.

## **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

## **E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days of startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for beryllium as referenced in 40 CFR Part 52, Subpart C, Section

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61.32 and for the allowable mass emission rate for particulate matter.

- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates: for beryllium, Method 104 of 40 CFR Part 61, Appendix B and particulate matter, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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

Records of emission tests results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

2. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

0.0050 lb PE/hr, 0.022 TPY PE

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

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b. Emission Limitation:

No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method:

40 CFR Part 60 Appendix A, Method 22

c. Emission Limitation:

Emissions shall not exceed 10 grams of Be over a 24 hour period (which equates to 0.022 lb/day and 0.004 TPY)

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be based on upon the results of the stack testing required in section E.1 of this permit.

Compliance with the annual emission limitation will be assumed as long as compliance with the hourly emission limitation is maintained (the annual emission limitation is based upon multiplying the hourly emission limitation by 8760 and dividing by 2000).

**F. Miscellaneous Requirements**

None.