

Facility ID: 0857103196 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit P006](#)
- [Go to Part II for Emissions Unit P007](#)
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Facility ID: 0857103196 Emissions Unit ID: P006 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>   |
|---|---|--|
| Hot Test Stand No. 6                          | OAC rule 3745-31-05(A)(3)<br>PTI 08-04257 | 1.1 lb/hr and 4.82 TPY carbon monoxide (CO);<br>0.8 lb/hr and 3.50 TPY nitrogen oxides (NOx);<br>0.3 lb/hr and 1.31 TPY organic compounds (OC);<br>0.2 lb/hr and 0.88 TPY sulfur dioxide (SO2);<br>0.2 lb/hr and 0.88 TPY particulate emissions (PE);<br><br>Visible particulate emissions shall not exceed 15% opacity, as a 6-minute average |
|   | OAC rule 3745-17-07(A)                    | The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).   |

2. **Additional Terms and Conditions**
  - (a) The 1.1 lb CO/hr, 0.8 lb NOx/hr, 0.3 lb OC/hr, 0.2 lb SO2/hr, and 0.2 lb PE/hr limitations were established for PTI purposes to reflect the potential to emit for this emissions unit, based on the testing protocol submitted on April 19, 2001 by the permittee. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. 1. The permittee shall maintain monthly records of the following information:
  - a. The total number of engines tested; and
  - b. The total engine running time compiled for all engines tested during the month.

**D. Reporting Requirements**

1. None

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1. of this permit shall be determined in accordance with the following methods:  
Emission Limitation -

## 1.1 lb CO/hr

## Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the 0.01 lb CO/hp-hr emission factor established during the January 2001 performance testing. If required, compliance shall also be determined by using Reference Method 10, as specified in 40 CFR Part 60, Appendix A.

Emission Limitation -  
4.82 TPY CO

## Applicable Compliance Method -

The 4.82 TPY limitation was developed by multiplying the specified allowable emission rate of 1.1 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.8 lb NOx/hr

## Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the 0.008 lb NOx/hp-hr emission factor established during the January 2001 performance testing. If required, compliance shall also be determined by using Reference Method 7, as specified in 40 CFR Part 60, Appendix A.

Emission Limitation -  
3.50 TPY NOx

## Applicable Compliance Method -

The 3.50 TPY limitation was developed by multiplying the specified allowable emission rate of 0.8 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.3 lb OC/hr

## Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.003 lb OC/hp-hr (AP-42, Table 3.3-1 (10/96)).

Emission Limitation -  
1.31 TPY OC

## Applicable Compliance Method -

The 1.31 TPY limitation was developed by multiplying the specified allowable emission rate of 0.3 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.2 lb SO<sub>2</sub>/hr

## Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.002 lb SO<sub>2</sub>/hp-hr (AP-42, Table 3.3-1 (10/96)).

Emission Limitation -  
0.88 TPY SO<sub>2</sub>

## Applicable Compliance Method -

The 0.88 TPY limitation was developed by multiplying the specified allowable emission rate of 0.2 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.2 lb PE/hr

## Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.002 lb PE/hp-hr (AP-42, Table 3.3-1, (10/96)). If required, compliance shall also be determined by using Reference Method 5, as specified in 40 CFR Part 60, Appendix A.

Emission Limitation -  
0.88 TPY PE

## Applicable Compliance Method -

The 0.88 TPY limitation was developed by multiplying the specified allowable emission rate of 0.2 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -

Visible particulate emissions shall not exceed 15% opacity, as a 6-minute average

## Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(E)(3) using the methods and procedures specified in USEPA Method 9.

F. **Miscellaneous Requirements**

1. None

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Facility ID: 0857103196 Emissions Unit ID: P007 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>   |
|---|---|--|
| Hot Test Stand No. 7                          | OAC rule 3745-31-05(A)(3)<br>PTI 08-04257 | 1.1 lb/hr and 4.82 TPY carbon monoxide (CO);<br>0.8 lb/hr and 3.50 TPY nitrogen oxides (NOx);<br>0.3 lb/hr and 1.31 TPY organic compounds (OC);<br>0.2 lb/hr and 0.88 TPY sulfur dioxide (SO2);<br>0.2 lb/hr and 0.88 TPY particulate emissions (PE);<br>Visible particulate emissions shall not exceed 15% opacity, as a 6-minute average |
|   | OAC rule 3745-17-07(A)                    | The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).   |

2. **Additional Terms and Conditions**
  - (a) The 1.1 lb CO/hr, 0.8 lb NOx/hr, 0.3 lb OC/hr, 0.2 lb SO2/hr, and 0.2 lb PE/hr limitations were established for PTI purposes to reflect the potential to emit for this emissions unit, based on the testing protocol submitted on April 19, 2001 by the permittee. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. 1. The permittee shall maintain monthly records of the following information:
  - a. The total number of engines tested; and
  - b. The total engine running time compiled for all engines tested during the month.

**D. Reporting Requirements**

1. None

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1. of this permit shall be determined in accordance with the following methods:
  - Emission Limitation -  
1.1 lb CO/hr
  - Applicable Compliance Method -  
Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the 0.01 lb CO/hp-hr emission factor established during the January 2001 performance testing. If required, compliance shall be also be determined by using Reference Method 10, as specified in 40 CFR Part 60, Appendix A.
  - Emission Limitation -  
4.82 TPY CO
  - Applicable Compliance Method -  
The 4.82 TPY limitation was developed by multiplying the specified allowable emission rate of 1.1 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
  - Emission Limitation -  
0.8 lb NOx/hr

**Applicable Compliance Method -**

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the 0.008 lb NO<sub>x</sub>/hp-hr emission factor established during the January 2001 performance testing. If required, compliance shall also be determined by using Reference Method 7, as specified in 40 CFR Part 60, Appendix A.

Emission Limitation -  
3.50 TPY NO<sub>x</sub>

**Applicable Compliance Method -**

The 3.50 TPY limitation was developed by multiplying the specified allowable emission rate of 0.8 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.3 lb OC/hr

**Applicable Compliance Method -**

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.003 lb OC/hp-hr (AP-42, Table 3.3-1 (10/96)).

Emission Limitation -  
1.31 TPY OC

**Applicable Compliance Method -**

The 1.31 TPY limitation was developed by multiplying the specified allowable emission rate of 0.3 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.2 lb SO<sub>2</sub>/hr

**Applicable Compliance Method -**

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.002 lb SO<sub>2</sub>/hp-hr (AP-42, Table 3.3-1 (10/96)).

Emission Limitation -  
0.88 TPY SO<sub>2</sub>

**Applicable Compliance Method -**

The 0.88 TPY limitation was developed by multiplying the specified allowable emission rate of 0.2 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.2 lb PE/hr

**Applicable Compliance Method -**

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.002 lb PE/hp-hr (AP-42, Table 3.3-1, (10/96)). If required, compliance shall be also be determined by using Reference Method 5, as specified in 40 CFR Part 60, Appendix A.

Emission Limitation -  
0.88 TPY PE

**Applicable Compliance Method -**

The 0.88 TPY limitation was developed by multiplying the specified allowable emission rate of 0.2 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -

Visible particulate emissions shall not exceed 15% opacity, as a 6-minute average

**Applicable Compliance Method -**

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0857103196 Emissions Unit ID: P008 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>   |
|---|---|--|
| Hot Test Stand No. 8                          | OAC rule 3745-31-05(A)(3)<br>PTI 08-04257 | 1.1 lb/hr and 4.82 TPY carbon monoxide (CO);<br>0.8 lb/hr and 3.50 TPY nitrogen oxides (NOx);<br>0.3 lb/hr and 1.31 TPY organic compounds (OC);<br>0.2 lb/hr and 0.88 TPY sulfur dioxide (SO2);<br>0.2 lb/hr and 0.88 TPY particulate emissions (PE);<br><br>Visible particulate emissions shall not exceed 15% opacity, as a 6-minute average |
|   | OAC rule 3745-17-07(A)                    | The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).   |

**2. Additional Terms and Conditions**

- (a) The 1.1 lb CO/hr, 0.8 lb NOx/hr, 0.3 lb OC/hr, 0.2 lb SO2/hr, and 0.2 lb PE/hr limitations were established for PTI purposes to reflect the potential to emit for this emissions unit, based on the testing protocol submitted on April 19, 2001 by the permittee. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. 1. The permittee shall maintain monthly records of the following information:
  - a. The total number of engines tested; and
  - b. The total engine running time compiled for all engines tested during the month.

**D. Reporting Requirements**

1. None

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1. of this permit shall be determined in accordance with the following methods:
  - Emission Limitation - 1.1 lb CO/hr  
  
Applicable Compliance Method - Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the 0.01 lb CO/hp-hr emission factor established during the January 2001 performance testing. If required, compliance shall be also be determined by using Reference Method 10, as specified in 40 CFR Part 60, Appendix A.
  - Emission Limitation - 4.82 TPY CO  
  
Applicable Compliance Method - The 4.82 TPY limitation was developed by multiplying the specified allowable emission rate of 1.1 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
  - Emission Limitation - 0.8 lb NOx/hr  
  
Applicable Compliance Method - Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the 0.008 lb NOx/hp-hr emission factor established during the January 2001 performance testing. If required, compliance shall also be determined by using Reference Method 7, as specified in 40 CFR Part 60, Appendix A.
  - Emission Limitation - 3.50 TPY NOx  
  
Applicable Compliance Method - The 3.50 TPY limitation was developed by multiplying the specified allowable emission rate of 0.8 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
  - Emission Limitation - 0.3 lb OC/hr  
  
Applicable Compliance Method - Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the

emission factor, 0.003 lb OC/hp-hr (AP-42, Table 3.3-1 (10/96)).

Emission Limitation -  
1.31 TPY OC

Applicable Compliance Method -

The 1.31 TPY limitation was developed by multiplying the specified allowable emission rate of 0.3 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.2 lb SO<sub>2</sub>/hr

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.002 lb SO<sub>2</sub>/hp-hr (AP-42, Table 3.3-1 (10/96)).

Emission Limitation -  
0.88 TPY SO<sub>2</sub>

Applicable Compliance Method -

The 0.88 TPY limitation was developed by multiplying the specified allowable emission rate of 0.2 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -  
0.2 lb PE/hr

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the average test protocol horsepower output (100 hp) by the emission factor, 0.002 lb PE/hp-hr (AP-42, Table 3.3-1, (10/96)). If required, compliance shall be also be determined by using Reference Method 5, as specified in 40 CFR Part 60, Appendix A.

Emission Limitation -  
0.88 TPY PE

Applicable Compliance Method -

The 0.88 TPY limitation was developed by multiplying the specified allowable emission rate of 0.2 lb/hr by the maximum annual operating schedule of 8,760 hrs/yr. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -

Visible particulate emissions shall not exceed 15% opacity, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

**F. Miscellaneous Requirements**

1. None

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**Facility ID: 0857103196 Emissions Unit ID: P014 Issuance type: Final State Permit To Operate**

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**Part II - Special Terms and Conditions**

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1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>  |
|---|---|---|
| P014 - Cylinder Head Machining Line with Mist Collector Units No. 5 and 6 | OAC rule 3745-31-05(A)(3)<br>PTI 08-04402 | 0.47 lb/hr and 2.07 TPY particulate emissions (PE);   |
|   | OAC rule 3745-17-07(A)                    | Visible particulate emissions shall not exceed 10 percent opacity, as a 6-minute average<br>The opacity limitation specified by this rule is less |

OAC rule 3745-17-11

stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).  
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- (a) The 0.47 lb/hr emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

B. **Operational Restrictions**

1. The pressure drop range across each HEPA filter for the mist collector units (MCUs) shall be maintained within the range of 0.5 to 3.0 inches of water while the emissions unit is in operation.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain monitoring equipment and a recorder which simultaneously measure and record the pressure drop across each HEPA filter while the emissions unit is in operation. The monitoring and recording devices shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall collect and record the average hourly pressure drop across each HEPA filters (i.e., the average hourly is calculated from the data points collected at a minimum frequency of 1 reading per 15 minutes).

D. **Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports, in accordance with Section A.2. of the General Terms and Conditions, that identify that all periods of time during which the pressure drop across each HEPA filter did not comply with the allowable range specified above.

E. **Testing Requirements**

1. Compliance with the specified allowable emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:  
Emission Limitation -  
0.47 lb/hr PE

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum combined airflow from the MCUs No. 5 and 6 (2,010,000 ft<sup>3</sup>/hr), by the company derived emission factor of 2.35 X 10<sup>-7</sup> lb PE/ft<sup>3</sup>. If required, compliance with the PE limitation shall be determined in accordance with the USEPA Reference Method 5 of 40 CFR Part 60, Appendix A.

Emission Limitation -  
2.07 TPY PE

Applicable Compliance Method -

The 2.07 TPY limitation was developed by multiplying the specified allowable emission rate of 0.47 lb/hr by the maximum annual operating schedule of 8,760 hours and divided by 2000 lbs/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance will also be shown with the annual limitation.

Emission Limitation -

Visible particulate emissions shall not exceed 10 percent opacity, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures in USEPA Reference Method 9.

F. **Miscellaneous Requirements**

1. None

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Facility ID: 0857103196 Emissions Unit ID: P015 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- (a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>  |
|---|---|---|
| P015 - Crank Shaft Machining Line with Mist Collector Units No. 7 and 8 | OAC rule 3745-31-05(A)(3)<br>PTI 08-04402 | 0.38 lb/hr and 1.65 TPY particulate emissions (PE);<br><br>Visible particulate emissions shall not exceed 10 percent opacity, as a 6-minute average |
|   | OAC rule 3745-17-07(A)                    | The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).      |
|   | OAC rule 3745-17-11                       | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).    |

**2. Additional Terms and Conditions**

- (a) The 0.38 lb/hr emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

**B. Operational Restrictions**

- 1. The pressure drop range across each HEPA filter for the mist collector units (MCUs) shall be maintained within the range of 0.5 to 3.0 inches of water while the emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall properly operate and maintain monitoring equipment and a recorder which simultaneously measure and record the pressure drop across each HEPA filter while the emissions unit is in operation. The monitoring and recording devices shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall collect and record the average hourly pressure drop across each HEPA filters (i.e., the average hourly is calculated from the data points) collected at a minimum frequency of 1 reading per 15 minutes).

**D. Reporting Requirements**

- 1. The permittee shall submit pressure drop deviation (excursion) reports, in accordance with Section A.2. of the General Terms and Conditions, that identify that all periods of time during which the pressure drop across each HEPA filter did not comply with the allowable range specified above.

**E. Testing Requirements**

- 1. Compliance with the specified allowable emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:  
 Emission Limitation -  
 0.38 lb/hr PE  
  
 Applicable Compliance Method -  
 Compliance shall be determined by multiplying the maximum combined airflow from the MCUs No. 7 and 8 (1,598,700 ft<sup>3</sup>/hr), by the company derived emission factor of 2.35 X 10<sup>-7</sup> lb PE/ft<sup>3</sup>. If required, compliance with the PE limitation shall be determined in accordance with the USEPA Reference Method 5 of 40 CFR Part 60, Appendix A.  
 Emission Limitation -  
 1.65 TPY PE  
  
 Applicable Compliance Method -  
 The 1.65 TPY limitation was developed by multiplying the specified allowable emission rate of 0.38 lb/hr by the maximum annual operating schedule of 8,760 hours and divided by 2000 lbs/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance will also be shown with the annual limitation.  
 Emission Limitation -  
 Visible particulate emissions shall not exceed 10 percent opacity, as a 6-minute average  
  
 Applicable Compliance Method -  
 Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0857103196 Emissions Unit ID: P021 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

- (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>  |
|--|---|---|
| P021 - Crank Shaft Machining Line 2 with Mist Collector Unit No. 9 | OAC rule 3745-31-05(A)(3)<br>PTI 08-04402 | 0.14 lb/hr and 0.62 TPY particulate emissions (PE);<br><br>Visible particulate emissions shall not exceed 10 percent opacity, as a 6-minute average |
|  | OAC rule 3745-17-07(A)                    | The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).      |
|  | OAC rule 3745-17-11                       | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).    |

**2. Additional Terms and Conditions**

- (a) The 0.14 lb/hr emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

**B. Operational Restrictions**

- 1. The pressure drop range across each HEPA filter for the mist collector unit (MCU) shall be maintained within the range of 0.5 to 3.0 inches of water while the emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall properly operate and maintain monitoring equipment and a recorder which simultaneously measure and record the pressure drop across each HEPA filter while the emissions unit is in operation. The monitoring and recording devices shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall collect and record the average hourly pressure drop across each HEPA filters (i.e., the average hourly is calculated from the data points collected at a minimum frequency of 1 reading per 15 minutes).

**D. Reporting Requirements**

- 1. The permittee shall submit pressure drop deviation (excursion) reports, in accordance with Section A.2. of the General Terms and Conditions, that identify that all periods of time during which the pressure drop across each HEPA filter did not comply with the allowable range specified above.

**E. Testing Requirements**

- 1. Compliance with the specified allowable emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:  
 Emission Limitation -  
 0.14 lb/hr PE  
  
 Applicable Compliance Method -  
 Compliance shall be determined by multiplying the maximum combined airflow from the MCUs No. 9 (600,000 ft<sup>3</sup>/hr), by the company derived emission factor of 2.35 X 10<sup>-7</sup> lb PE/ft<sup>3</sup>. If required, compliance with the PE limitation shall be determined in accordance with the USEPA Reference Method 5 of 40 CFR Part 60, Appendix A.  
 Emission Limitation -  
 0.62 TPY PE  
  
 Applicable Compliance Method -  
 The 0.62 TPY limitation was developed by multiplying the specified allowable emission rate of 0.14 lb/hr by the maximum annual operating schedule of 8,760 hours and divided by 2000 lbs/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance will also be shown with the annual limitation.  
 Emission Limitation -  
 Visible particulate emissions shall not exceed 10 percent opacity, as a 6-minute average  
  
 Applicable Compliance Method -  
 Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

- 1. None