Facility ID: 0812100276 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 F001
Go to Part II for Emissions Unit F002
Go to Part II for Emissions Unit F006
Go to Part II for Emissions Unit F015
Go to Part II for Emissions Unit F016
Go to Part II for Emissions Unit F018
Go to Part II for Emissions Unit K002
Go to Part II for Emissions Unit P011
Go to Part II for Emissions Unit P905
Go to Part II for Emissions Unit P906

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Facility ID: 0812100276 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F001 - Channel Electric Induction Furnace #1	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	Particulate emissions (PE) from emissions units F001, F002, and F006 shall not exceed 9.9 tons per rolling 365-day period. See A.2.b.
	OAC rule 3745-17-07(B)	The fugitive visible emission limitation specified by this rule is less stringent than that established by A.2.a.
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation as specified above.

2. **Additional Terms and Conditions**

   (a) As required by PTI 08-1279 for F006, visible emissions from F001, F002, and F006 shall not exceed 5% opacity, as a six minute average, except during slagging at which time visible emissions may not exceed 10% opacity, as a six minute average, as observed from general ventilation egress points.
   With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual combined metal production rate for F001, F002, and F006 shall not exceed 21,900 tons, based on a rolling 365-day summation.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

   . Maximum Allowable
   Month(s) Cumulative Metal Production, in tons

   1 1,825
   1-2 3,650

1-3 5,475
1-4 7,300
1-5 9,125
1-6 10,950
1-7 12,775
1-8 14,600
1-9 16,425
1-10 18,250
1-11 20,075
1-12 21,900

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

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

1. The permittee shall maintain daily records of the following information for F001, F002, and F006:

a. The combined amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative, combined amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the combined amount of metal produced, in tons.

d. The combined, rolling, 365-day summations of PE, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports which specify the following:

a. The total combined PE, in tons, for F001, F002, and F006, on a rolling 365-day basis.

b. The combined amount of metal produced, in tons, for F001, F002, and F006, on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
9.9 TPY PE from emissions units F001, F002, and F006 per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for emission units F001, F002, and F006 for the 365-day period and multiplying this sum by the uncontrolled electric induction furnace emission factor (0.9 lb PE/ton, AP-42 Table 12.10-3 (1/95)), and dividing by 2000 lbs/ton.

b. Emission Limitation-
5% opacity, as a six minute average
10% opacity, as a six minute average, during slagging

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable: Terms A.1, A.2.b, B.1, C.1, D.1, D.2, E.1.a, and F.1.

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Facility ID: 0812100276 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F002 - Channel Electric Induction Furnace #2	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	Particulate emissions (PE) from emissions units F001, F002, and F006 shall not exceed 9.9 tons per rolling 365-day period. See A.2.b.
	OAC rule 3745-17-07(B)	The fugitive visible emission limitation specified by this rule is less stringent than that established by A.2.a.
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation as specified above.

2. **Additional Terms and Conditions**

(a) As required by PTI 08-1279 for F006, visible emissions from F001, F002, and F006 shall not exceed 5% opacity, as a six minute average, except during slagging at which time visible emissions may not exceed 10% opacity, as a six minute average, as observed from general ventilation egress points.
With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual combined metal production rate for F001, F002, and F006 shall not exceed 21,900 tons, based on a rolling 365-day summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Metal Production, in tons
1	1,825
1-2	3,650
1-3	5,475
1-4	7,300
1-5	9,125
1-6	10,950
1-7	12,775

1-8 14,600
1-9 16,425
1-10 18,250
1-11 20,075
1-12 21,900

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

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

1. The permittee shall maintain daily records of the following information for F001, F002, and F006:

a. The combined amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative, combined amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the combined amount of metal produced, in tons.

d. The combined, rolling, 365-day summations of PE, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports which specify the following:

a. The total combined PE, in tons, for F001, F002, and F006, on a rolling 365-day basis.

b. The combined amount of metal produced, in tons, for F001, F002, and F006, on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
9.9 TPY PE from emissions units F001, F002, and F006 per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for emission units F001, F002, and F006 for the 365-day period and multiplying this sum by the uncontrolled electric induction furnace emission factor (0.9 lb PE/ton, AP-42 Table 12.10-3 (1/95)), and dividing by 2000 lbs/ton.

b. Emission Limitation-
5% opacity, as a six minute average
10% opacity, as a six minute average, during slagging

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable: Terms A.1, A.2.b, B.1, C.1, D.1, D.2, E.1.a, and F.1.

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Facility ID: 0812100276 Emissions Unit ID: F006 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F006 - Electric Coreless Induction Furnace #3	OAC rule 3745-31-05(A)(3) (PTI 08-1279)	Particulate emissions (PE) shall not exceed 2.7 lbs/hr. See A.2.a.
	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	PE from emissions units F001, F002, and F006 shall not exceed 9.9 tons per rolling 365-day period. See A.2.c.
	OAC rule 3745-17-07(B)	The fugitive visible emission limitation specified by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation and hourly PE limitation as specified above.

2. **Additional Terms and Conditions**

   (a) As required by PTI 08-1279 for F006, visible emissions from F001, F002, and F006 shall not exceed 5% opacity, as a six minute average, except during slagging at which time visible emissions may not exceed 10% opacity, as a six minute average, as observed from general ventilation egress points.
   The 2.7 lbs/hour PE limit was established to reflect the potential to emit for the emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
   With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual combined metal production rate for F001, F002, and F006 shall not exceed 21,900 tons, based on a rolling 365-day summation.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

   . Maximum Allowable
   Month(s) Cumulative Metal Production, in tons

   1 1,825
   1-2 3,650
   1-3 5,475
   1-4 7,300
   1-5 9,125
   1-6 10,950

1-7 12,775
1-8 14,600
1-9 16,425
1-10 18,250
1-11 20,075
1-12 21,900

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

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

1. The permittee shall maintain daily records of the following information for F001, F002, and F006:

a. The combined amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative, combined amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the combined amount of metal produced, in tons.

d. The combined, rolling, 365-day summations of PE, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports which specify the following:

a. The total combined PE, in tons, for F001, F002, and F006, on a rolling 365-day basis.

b. The combined amount of metal produced, in tons, for F001, F002, and F006, on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
2.7 lbs/hr PE

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum capacity of the furnace (3 ton/hr) by the uncontrolled electric induction furnace emission factor (0.9 lb PE/ton, AP-42 Table 12.10-3 (1/95)). If required, compliance can also be determined in accordance with OAC rule 3745-17-03(B)(10) using the methods and procedures specified in U.S. EPA Reference Methods 1 through 5 of 40 CFR Part 60, Appendix A.

b. Emission Limitation-
9.9 TPY PE from emissions units F001, F002, and F006 per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for emission units F001, F002, and F006 for the 365-day period and multiplying this sum by the uncontrolled electric induction furnace

emission factor (0.9 lb PE/ton, AP-42 Table 12.10-3 (1/95)), and dividing by 2000 lbs/ton.

c. Emission Limitation-
5% opacity, as a six minute average
10% opacity, as a six minute average, during slagging

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable: Terms A.1, A.2.c, B.1, C.1, D.1, D.2, E.1.b, and F.1.

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Facility ID: 0812100276 Emissions Unit ID: F015 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F015 - No Bake - Floor Mold Pouring	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	Particulate emissions (PE) shall not exceed 5.1 tons per rolling 365-day period. Volatile organic compound (VOC) emissions shall not exceed 0.26 tons per rolling 365-day period. See A.2.a. and A.2.b.
	OAC rule 3745-17-07(B)	Fugitive visible PE shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation as specified above.

2. **Additional Terms and Conditions**

(a) With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.
With the issuance of the FESOPs for emissions units F015 and K002 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F013, P027, and P029 the total allowable VOC emissions from these emissions units shall not exceed 42.0 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual metal production rate shall not exceed 3,650 tons, based on a rolling 365-day summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

. Maximum Allowable
Month(s) Cumulative Metal Production, in tons

1 304.2
1-2 608.3
1-3 912.5
1-4 1,216.7
1-5 1,520.8
1-6 1,825.0
1-7 2,129.2
1-8 2,433.3
1-9 2,737.5
1-10 3,041.7
1-11 3,345.8
1-12 3,650.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

a. The amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of metal produced, in tons.

d. The rolling, 365-day summations of PE, in tons.

e. The rolling, 365-day summations of VOC emissions, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports, for this emissions unit, which specify the following:

a. The total PE, in tons on a rolling 365-day basis.

b. The total VOC emissions, in tons on a rolling 365-day basis.

c. The amount of metal produced, in tons on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
5.1 TPY PE per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for the 365-day period and

multiplying this sum by the uncontrolled metal pouring emission factor (2.8 lbs PE/ton, 4.2 lbs/ton for pouring and cooling (AP-42 Table 12.10-7 (1/95)) minus 1.4 lbs/ton cooling (FIRE Version 6.23, SCC 3-04-003-25 (10/00)) equals 2.8 lbs/ton pouring only), and dividing by 2000 lbs/ton.

b. Emission Limitation-
0.26 TPY VOC per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for the 365-day period and multiplying this sum by the uncontrolled metal pouring/casting emission factor (0.14 lbs VOC/ton, FIRE Version 6.23, SCC 3-04-03-20 (10/00)), and dividing by 2000 lbs/ton.
c. Emission Limitation-
20% opacity as a 3-minute average, as observed from general ventilation egress points

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable: Terms A.1, A.2.a, A.2.b, B.1, C.1, D.1, D.2, E.1.a, E.1.b, and F.1.

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

Facility ID: 0812100276 Emissions Unit ID: F016 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F016 - No Bake - Floor Mold Cooling	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	Particulate emissions (PE) shall not exceed 2.6 tons per rolling 365-day period. See A.2.a.
	OAC rule 3745-17-07(B)	Fugitive visible PE shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation as specified above.

2. **Additional Terms and Conditions**

(a) With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual metal production rate shall not exceed 3,650 tons, based on a rolling 365-day summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

. Maximum Allowable
Month(s) Cumulative Metal Production, in tons

1 304.2
1-2 608.3
1-3 912.5
1-4 1,216.7
1-5 1,520.8
1-6 1,825.0
1-7 2,129.2
1-8 2,433.3
1-9 2,737.5
1-10 3,041.7
1-11 3,345.8
1-12 3,650.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

a. The amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of metal produced, in tons.

d. The rolling, 365-day summations of PE, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports, for this emissions unit, which specify the following:

a. The total PE, in tons on a rolling 365-day basis.

b. The amount of metal produced, in tons on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
2.6 TPY PE per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for the 365-day period and multiplying this sum by the uncontrolled metal cooling emission factor (1.4 lbs PE/ton, FIRE Version 6.23, SCC 3-04-003-25 (10/00)), and dividing by 2000 lbs/ton.

b. Emission Limitation-
20% opacity as a 3-minute average, as observed from general ventilation egress points

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable:
Terms A.1, A.2.a, B.1, C.1, D.1, D.2, E.1.a, and F.1.

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

Facility ID: 0812100276 Emissions Unit ID: F018 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F018 - No Bake - Floor Mold Knockout	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	Particulate emissions (PE) shall not exceed 5.8 tons per rolling 365-day period. See A.2.a.
	OAC rule 3745-17-07(B)	Fugitive visible PE shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation as specified above.

2. **Additional Terms and Conditions**

(a) With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual metal production rate shall not exceed 3,650 tons, based on a rolling 365-day summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

. Maximum Allowable
Month(s) Cumulative Metal Production, in tons

1 304.2
1-2 608.3
1-3 912.5
1-4 1,216.7
1-5 1,520.8
1-6 1,825.0
1-7 2,129.2
1-8 2,433.3
1-9 2,737.5
1-10 3,041.7

1-11 3,345.8
1-12 3,650.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

a. The amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of metal produced, in tons.

d. The rolling, 365-day summations of PE, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports, for this emissions unit, which specify the following:

a. The total PE, in tons on a rolling 365-day basis.

b. The amount of metal produced, in tons on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
5.8 TPY PE per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily metal production rates for the 365-day period and multiplying this sum by the uncontrolled shakeout emission factor (3.2 lbs PE/ton, AP-42 Table 12.10-7 (1/95)), and dividing by 2000 lbs/ton.

b. Emission Limitation-
20% opacity as a 3-minute average, as observed from general ventilation egress points

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable:
Terms A.1, A.2.a, B.1, C.1, D.1, D.2, E.1.a, and F.1.

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

Facility ID: 0812100276 Emissions Unit ID: K002 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K002 - Upright Paint Spray Booth (Coating and Cleanup Operations)	OAC rule 3745-31-05(A)(3) (PTI 08-2527)	Volatile organic compound (VOC) emissions shall not exceed 4.87 lbs/hr. The requirements of this rule also includes compliance with the requirements of OAC 3745-35-07(B) and OAC rule 3745-21-09(U)(1)(i)
	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	VOC emissions shall not exceed 9.4 tons per rolling 365-day period. Facility-wide individual hazardous air pollutant (HAP) emissions shall not exceed 9.9 tons per rolling 365-day period. Facility-wide combined HAP emissions shall not exceed 24.9 tons per rolling 365-day period. See A.2.a. and A.2.b.
	OAC rule 3745-21-09(U)(1)(i)	The VOC content of the coatings employed shall not exceed 3.0 lbs VOC per gallon, excluding water and exempt solvents.

2. **Additional Terms and Conditions**

   (a) With the issuance of the FESOPs for emissions units F015 and K002 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F013, P027, and P029 the total allowable VOC emissions from these emissions units shall not exceed 42.0 tons per rolling, 365-day period.
   The emissions of HAP, as identified in Section 112(b) of Title III of the Clean Air Act, from this facility shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs, based on a rolling, 365-day summations.

B. **Operational Restrictions**

1. The maximum annual coating, thinner and cleanup material usage shall not exceed 6,233 gallons, based on a rolling 365-day summation.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the coating usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Coating, Thinner and Cleanup Material Usage, in gallons
1	519.4
1-2	1,038.8
1-3	1,558.3
1-4	2,077.7
1-5	2,597.1
1-6	3,116.5
1-7	3,635.9

1-8 4,155.3
1-9 4,674.8
1-10 5,194.2
1-11 5,713.6
1-12 6,233.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual coating, thinner and cleanup material usage limitation shall be based upon a rolling, 365-day summation of the coating, thinner and cleanup material usage.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

a. The name and identification number of each coating, thinner and cleanup material employed.

b. The volume, in gallons, of each coating, thinner and cleanup material employed.

c. The total volume, in gallons, of all of the coatings, thinners and cleanup materials employed.

d. The VOC content of each coating, thinner and cleanup material employed, in pounds of VOC per gallon.

e. The total VOC emissions from all coatings, thinners and cleanup materials employed, in pounds per day, for this emissions unit (the sum of b times d for each coating, thinner and cleanup material employed).

f. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of coating, thinner and cleanup material used, in gallons.

g. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of coating, thinner and cleanup material used, in gallons.

h. The rolling, 365-day summations of VOC emissions, in tons.

i. The hours of operation.

j. The average hourly VOC emission rate, in pounds per hour, for this emissions unit, i.e., (e) / (i).

2. The permittee shall maintain daily records of the following information for the facility:

a. The name and identification number of each coating, thinner and cleanup material employed.

b. The volume, in gallons, of each coating, thinner and cleanup material employed.

c. The individual HAP content for each HAP of each coating, thinner and cleanup material employed, in pounds of individual HAP per gallon.

d. The combined HAP content of each coating, thinner and cleanup material employed, in pounds of combined HAP per gallon.

e. The total individual HAP emissions for each HAP from all coatings, thinners and cleanup materials employed, in pounds per day, for this emissions unit (the sum of b times c for each coating, thinner and cleanup material employed).

f. The total combined HAP emissions from all coatings, thinners and cleanup materials employed, in pounds per day, for this emissions unit (the sum of b times d for each coating, thinner and cleanup material employed).

g. The rolling, 365-day summation of the total individual HAP emissions for each HAP from all coatings, thinners, and cleanup materials, in tons.

h. The rolling, 365-day summation of the total combined HAP emissions from all coatings, thinners, and cleanup materials, in tons.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day limitation on coatings, thinners, and cleanup materials usage as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative coatings, thinners, and cleanup materials usage limit. The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports which specify the following:

a. The total VOC emissions, in tons on a rolling 365-day basis, for this emissions unit.

b. The total individual HAP emissions, in tons on a rolling 365-day basis, for the facility.

c. The total combined HAP emissions, in tons on a rolling 365-day basis, for the facility.

d. The total combined amount of coating, thinner and cleanup material used, in gallons on a rolling 365-day basis, for this emissions unit.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. **Testing Requirements**

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

a. Emission Limitation-
4.87 lbs/hr VOC emissions

Applicable Compliance Method -
Compliance shall be determined as specified in Section C.1.

b. Emission Limitation-
9.4 TPY VOC emissions per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined by summing the daily emissions, in pounds as specified in Section C.1, for the previous 365 days.

c. Emission Limitation-
9.9 TPY individual HAP emissions per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined as specified in Section C.2.
d. Emission Limitation-
24.9 TPY combined HAP emissions per rolling 365-day period.

Applicable Compliance Method-
Compliance shall be determined as specified in Section C.2.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable:
Terms A.1, A.2.a, A.2.b, B.1, C.1, C.2, D.1, D.2, E.1.b, E.1.c, E.1.d and F.1.

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

Facility ID: 0812100276 Emissions Unit ID: P011 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P011 - Westmold Sand Muller with Baghouse	OAC rule 3745-31-05(A)(3) (PTI 08-2231)	Particulate emissions (PE) shall not exceed 0.026 lbs/hr. Visible PE shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	PE shall not exceed 0.12 tons per rolling 365-day period. See A.2.b.
	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

(a) The 0.026 lbs/hour PE limit was established to reflect the potential to emit for the emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002,

P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.
PE from emissions units P011 and P906 are controlled through the application of a common baghouse identified as the Westmold Line Baghouse.

B. **Operational Restrictions**

1. The maximum annual amount of sand processed shall not exceed 105,120 tons, based on a rolling 365-day summation.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the sand usage levels specified in the following table:

   . Maximum Allowable Cumulative
   Month(s) Amount of Sand Processed, in tons

   1 8,760
   1-2 17,520
   1-3 26,280
   1-4 35,040
   1-5 43,800
   1-6 52,560
   1-7 61,320
   1-8 70,080
   1-9 78,840
   1-10 87,600
   1-11 96,360
   1-12 105,120

   After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual sand usage limitation shall be based upon a rolling, 365-day summation of the amount of sand processed.

2. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 10.0 inches of water while the emissions unit is in operation.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

   a. The amount of sand processed, in tons.

   b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of sand processed, in tons.

   c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of sand processed, in tons.

   d. The rolling, 365-day summations of PE, in tons.

2. 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 daily basis.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the abnormal visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following:

   a. The rolling, 365-day limitation on sand processed, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative sand processing limit, in tons.

   b. All periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

   The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports, for this emissions unit, which specify the following:

   a. The total PE, in tons on a rolling 365-day basis.

   b. The amount of sand processed, in tons on a rolling 365-day basis.

   These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack serving this emissions unit, (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

   a. Emission Limitation-
   0.026 lbs/hr PE

   Applicable Compliance Method -
   Compliance shall be determined as follows:

   Multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.22 lbs PE/ton sand (AP-42 Table 11.12-2 (10/01)) and by a control factor of ((100 - 99) / 100) where 99 is the control efficiency of the baghouse (100% capture efficiency).

   If required, the permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted in accordance with OAC rule 3745-17-03(B)(10) using Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

   b. Emission Limitation-
   14.2 TPY PE per rolling 365-day period

   Applicable Compliance Method -
   Compliance shall be determined as follows:

   Sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.22 lbs PE/ton sand (AP-42 Table 11.12-2 (10/01)) and by a control factor of ((100 - 99) / 100) where 99 is the control efficiency of the baghouse (100% capture efficiency).
   c. Emission Limitation-
   5% 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 specified in U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable:
   Terms A.1, A.2.b, B.1, C.1, D.1, D.2, E.1.b, and F.1.

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

Facility ID: 0812100276 Emissions Unit ID: P905 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P905 - Herman Line Casting Shakeout with Baghouse	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	Particulate emissions (PE) shall not exceed 0.80 tons per rolling 365-day period. See A.2.b.
	OAC rule 3745-17-11(B)	PE from the baghouse shall not exceed 2.88 lbs/hr (based on Figure II of OAC rule 3745-17-11)
	OAC rule 3745-17-07(A)	Visible PE from the baghouse shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible with good engineering judgement to maintain compliance with visible emission limitation and hourly PE limitation as specified above.

2. **Additional Terms and Conditions**

(a) The 2.88 lbs/hour PE limit was established to reflect the potential to emit for the emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.

B. **Operational Restrictions**

1. The maximum annual metal production rate shall not exceed 3,650 tons, based on a rolling 365-day summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the metal production levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Metal Production, in tons
1	304.2
1-2	608.3
1-3	912.5
1-4	1,216.7
1-5	1,520.8
1-6	1,825.0
1-7	2,129.2
1-8	2,433.3
1-9	2,737.5
1-10	3,041.7
1-11	3,345.8
1-12	3,650.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual metal production rate limitation shall be based upon a rolling, 365-day summation of the metal production.

2. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 6.0 inches of water while the emissions unit is in operation.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

a. The amount of metal produced, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of metal produced, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of metal produced, in tons.

d. The rolling, 365-day summations of PE, in tons.

2. 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 daily basis.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and
e. any corrective actions taken to minimize or eliminate the visible emissions.

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

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following:

a. The rolling, 365-day limitation on metal production, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative metal production limit, in tons.

b. All periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports, for this emissions unit, which specify the following:

a. The total PE, in tons on a rolling 365-day basis.

b. The amount of metal produced, in tons on a rolling 365-day basis.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack serving this emissions unit, (b) identify all days during which and visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

a. Emission Limitation-
2.88 lbs/hr PE

Applicable Compliance Method -
Compliance shall be determined as follows:

i. For cope and drag separation and casting removal stack emissions, multiply the maximum capacity of the process (3 tons/hr) by the emission factor of 1.2 lbs PE/ton metal produced (OEPA RACM, Table 2.7-1, Casting Shakeout (9/83)) and by a control factor of ((80 / 100) * ((100 - 99) / 100)) where 80 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse.

ii. For cope and drag separation and casting removal fugitive emissions, multiply the maximum capacity of the process (3 tons/hr) by the emission factor of 1.2 lbs PE/ton metal produced (OEPA RACM, Table 2.7-1, Casting Shakeout (9/83)) and by a control factor of ((100 - 80) / 100) where 80 is the baghouse capture efficiency (%).

iii. For shakeout stack emissions, multiply the maximum capacity of the process (3 tons/hr) by the emission factor of 3.2 lbs PE/ton metal produced (AP-42 Table 12.10-7 (1/95)) and by a control factor of ((95 / 100) * ((100 - 99) / 100)) where 95 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse.

iv. For shakeout fugitive emissions, multiply the maximum capacity of the process (3 tons/hr) by the emission factor of 3.2 lbs PE/ton metal produced (AP-42 Table 12.10-7 (1/95)) and by a control factor of ((100 - 95) / 100) where 95 is the baghouse capture efficiency (%).

v. sum i + ii + iii + iv
b. Emission Limitation-
0.80 TPY PE per rolling 365-day period

Applicable Compliance Method -
Compliance shall be determined as follows:

i. For cope and drag separation and casting removal stack emissions, sum the daily metal production rates, in tons, for the 365-day period and multiply this sum by the emission factor of 1.2 lbs PE/ton metal produced (OEPA RACM, Table 2.7-1, Casting Shakeout) and by a control factor of ((80 / 100) * ((100 - 99) / 100)) where 80 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse. Then, divide this product by 2,000 lbs/ton.

ii. For cope and drag separation and casting removal fugitive emissions, sum the daily metal production rates, in tons, for the 365-day period and multiply this sum by the emission factor of 1.2 lbs PE/ton metal produced (OEPA RACM, Table 2.7-1, Casting Shakeout) and by a control factor of ((100 - 80) / 100)) where 80 is the

baghouse capture efficiency (%). Then, divide this product by 2,000 lbs/ton.

iii. For shakeout stack emissions, sum the daily metal production rates, in tons, for the 365-day period and multiply this sum by the emission factor of 3.2 lbs PE/ton metal produced (AP-42 Table 12.10-7) and by a control factor of ((95 / 100) * ((100 - 99) / 100)) where 95 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse. Then, divide this product by 2,000 lbs/ton.

iv. For shakeout fugitive emissions, sum the daily metal production rates, in tons, for the 365-day period and multiply this sum by the emission factor of 3.2 lbs PE/ton metal produced (AP-42 Table 12.10-7) and by a control factor of ((100 - 95) / 100)) where 95 is the baghouse capture efficiency (%). Then, divide this product by 2,000 lbs/ton.

v. sum i + ii + iii + iv
c. Emission Limitation-
20% opacity as a 6-minute average from baghouse exhaust

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 specified in U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

d. Emission Limitation-
20% opacity as a 3-minute average, as observed from general ventilation egress points

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 U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable: Terms A.1, A.2.b, B.1, C.1, D.1, D.2, E.1.b, and F.1.

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

Facility ID: 0812100276 Emissions Unit ID: P906 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P906 - Westmold Sand Transport Elevator with Baghouse	OAC rule 3745-31-05(A)(3) (PTI 08-2231)	Particulate emissions (PE) shall not exceed 3.25 lbs/hr. Visible PE shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	PE shall not exceed 14.2 tons per rolling 365-day period. See A.2.b.
	OAC rule 3745-17-07(B)	The fugitive visible emission limitation specified by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	Adequately enclose and contain fugitive dust to minimize or eliminate visible PE, to the extent possible

	with good engineering judgement to maintain compliance with visible emission limitation and hourly PE limitation as specified above.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

(a) The 3.25 lbs/hour PE limit was established to reflect the potential to emit for the emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
With the issuance of the FESOPs for emissions units F001, F002, F006, F015, F016, F018, K002, P011, P905 and P906 and the issuance of Synthetic Minor PTI 08-04462 (issued 8/14/2003) for emissions units F010, F011, F012, F013, F014, P901, P902, and P903, the total allowable particulate (PE) from these emissions units shall not exceed 77 tons per rolling, 365-day period.
PE from emissions units P011 and P906 are controlled through the application of a common baghouse identified as the Westmold Line Baghouse.

B. **Operational Restrictions**

1. The maximum annual amount of sand processed shall not exceed 105,120 tons, based on a rolling 365-day summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the sand usage levels specified in the following table:

. Maximum Allowable Cumulative
Month(s) Amount of Sand Processed, in tons

1 8,760
1-2 17,520
1-3 26,280
1-4 35,040
1-5 43,800
1-6 52,560
1-7 61,320
1-8 70,080
1-9 78,840
1-10 87,600
1-11 96,360
1-12 105,120

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual sand usage limitation shall be based upon a rolling, 365-day summation of the amount of sand processed.

2. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 10.0 inches of water while the emissions unit is in operation.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:

a. The amount of sand processed, in tons.

b. During the first 365 calendar days of operation following the issuance of this permit, the permittee shall record the cumulative amount of sand processed, in tons.

c. Beginning after the first 365 calendar days of operation following the issuance of this permit, the rolling, 365-day summation of the amount of sand processed, in tons.

d. The rolling, 365-day summations of PE, in tons.

2. 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 daily basis.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

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

specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following:

   a. The rolling, 365-day limitation on sand processed, in tons, as specified in section B.1. of this permit; and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative sand processing limit, in tons.

   b. All periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

   The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions.

2. The permittee shall submit annual reports, for this emissions unit, which specify the following:

   a. The total PE, in tons on a rolling 365-day basis.

   b. The amount of sand processed, in tons on a rolling 365-day basis.

   These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual reports which (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. **Testing Requirements**

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

   a. Emission Limitation-
   3.25 lbs/hr PE

   Applicable Compliance Method -
   Compliance shall be determined as follows:

   i. For sand dump emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.000066 lbs PE/ton sand (AP-42 Section 13.2.4.3 Equation 1(1/95)).

   ii. For sand transfer from the vibrating sand conveyor to return sand conveyor emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.0021 lbs PE/ton sand (AP-42 Table 11.12-2 (10/01)).

   iii. For the return sand bucket elevator and return sand silo emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, SCC 3-05-011-07 (10/00)).

   iv. For sand transfer from the return sand bucket elevator to muller mixer stack emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, SCC 3-05-011-07 (10/00)) and by a control factor of ((95 / 100) * ((100 - 99) / 100)) where 95 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse.

   v. For sand transfer from the return sand bucket elevator to muller mixer fugitive emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, SCC 3-05-011-07 (10/00)) and by a control factor of ((100 - 95) / 100) where 95 is the baghouse capture efficiency (%).
   vi. For sand transfer from the reclaim sand conveyor and bucket elevator to day hoppers stack emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)) and by a control factor of ((95 / 100) * ((100 - 99) / 100)) where 95 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse.

   vii. For sand transfer from the reclaim sand conveyor and bucket elevator to day hoppers fugitive emissions, multiply the maximum capacity of the process (12 tons/hr) by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)) and by a control factor of ((100 - 95) / 100) where 95 is the baghouse capture efficiency (%).

   viii. Sum i + ii + iii + iv + v + vi + vii

   If required, the permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted in accordance with OAC rule 3745-17-03(B)(10) using Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
   b. Emission Limitation-
   14.2 TPY PE per rolling 365-day period

   Applicable Compliance Method -
   Compliance shall be determined as follows:

   i. For sand dump emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.000066 lbs PE/ton sand (AP-42 Section 13.2.4.3 Equation 1 (1/95)).

ii. For sand transfer from the vibrating sand conveyor to return sand conveyor emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.0021 lbs PE/ton sand (AP-42 Table 11.12-2 (10/01)).

iii. For the return sand bucket elevator and return sand silo emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)).

iv. For sand transfer from the return sand bucket elevator to muller mixer stack emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)) and by a control factor of ((95 / 100) * ((100 - 99) / 100)) where 95 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse.

v. For sand transfer from the return sand bucket elevator to muller mixer fugitive emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)) and by a control factor of ((100 - 95) / 100) where 95 is the baghouse capture efficiency (%).
vi. For sand transfer from the reclaim sand conveyor and bucket elevator to day hoppers stack emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)) and by a control factor of ((95 / 100) * ((100 - 99) / 100)) where 95 is the baghouse capture efficiency (%) and 99 is the control efficiency of the baghouse.

vii. For sand transfer from the reclaim sand conveyor and bucket elevator to day hoppers fugitive emissions, sum the daily amount of sand processed, in tons, for the 365-day period and multiply this sum by the emission factor of 0.24 lbs PE/ton sand (FIRE Version 6.23, 3-05-011-07 (10/00)) and by a control factor of ((100 - 95) / 100) where 95 is the baghouse capture efficiency (%).

viii. Sum i + ii + iii + iv + v + vi + vii
b. Emission Limitation-
5% 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) and OAC rule 3745-17-03(B)(3) using the methods and procedures specified in U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, the following terms in this permit are federally enforceable:
Terms A.1, A.2.b, B.1, C.1, D.1, D.2, E.1.b, and F.1.