

Facility ID: 1677120007 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 P004](#)
- [Go to Part II for Emissions Unit P005](#)
- [Go to Part II for Emissions Unit P006](#)
- [Go to Part II for Emissions Unit P007](#)
- [Go to Part II for Emissions Unit P008](#)
- [Go to Part II for Emissions Unit P009](#)

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Facility ID: 1677120007 Emissions Unit ID: P004 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plastisol dip molding - unit #4 with a capacity of 300 lbs/hr	OAC rule 3745-31-05 (PTI 16-1709)	16.5 lbs/hr of organic compounds (OC) 11.28 tons of OC per rolling, 12-month period for P004 through P009 1.8 lbs/hr of Stoddard solvent* *The Stoddard solvent is included in the allowable mass emissions for OC. See B.1 below.

OAC rule 3745-21-07(G)

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The permittee shall only employ materials in this emissions unit which meet the following criteria either pursuant to OAC rule 3745-21-07(G)(9)(c) or pursuant to OAC rule 3745-21-07(G)(9)(d):

OAC rule 3745-21-07(G)(9)(c):

 - a. the volatile content of such material consists only of water and liquid organic material; and
 - b. the liquid organic material comprises not more than twenty percent of said volatile content; and
 - c. the volatile content is not a photochemically reactive material.

OAC rule 3745-21-07(G)(9)(d):

 - d. the volatile content of such material does not exceed twenty percent by volume of said material; and
 - e. the volatile content is not a photochemically reactive material.
2. The maximum annual solvent usage for P004, P005, P006, P007, P008, and P009 shall not exceed 18,000 pounds per year, based upon a rolling, 12-month summation of the solvent usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709,

the permittee shall not exceed the solvent usage levels specified in the following table:

. Maximum Allowable Month(s) Cumulative Solvent Usage
1 1500 pounds
1-2 3000 pounds
1-3 4500 pounds
1-4 6000 pounds
1-5 7500 pounds
1-6 9000 pounds
1-7 10,500 pounds
1-8 12,000 pounds
1-9 13,500 pounds
1-10 15,000 pounds
1-11 16,500 pounds
1-12 18,000 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual solvent usage limitation shall be based upon a rolling, 12-month summation of the solvent usage figures.

3. The additive organic compound (OC) volatiles from P004, P005, P006, P007, P008, and P009 shall not exceed 4104 pounds per year, based upon a rolling, 12-month summation of the monthly additive OC volatiles usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the additive OC volatiles levels specified in the following table:

. Maximum Allowable . Cumulative Additive Month(s) OC volatiles Usage
1 342 pounds
1-2 684 pounds
1-3 1026 pounds
1-4 1368 pounds
1-5 1710 pounds
1-6 2052 pounds
1-7 2394 pounds
1-8 2736 pounds
1-9 3078 pounds
1-10 3420 pounds
1-11 3762 pounds
1-12 4104 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual additive OC volatiles limitation shall be based upon a rolling, 12-month summation of the monthly amount of additive OC volatiles usage figures.

C. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain records which document that each material employed in this emissions unit meets the criteria specified in section B.1 of this permit.
- The permittee shall maintain monthly records of the following information:
 - the solvent usage, in pounds;
 - the additive OC volatiles usage, in pounds; and
 - beginning after the first 12 calendar months of operation following the issuance of PTI 16-1709, the rolling, 12-month summation of the solvent usage figures and the additive OC volatiles usage figures.

Also, during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall record the cumulative solvent usage and the cumulative additive OC volatiles usage for each calendar month.

D. Reporting Requirements

- The permittee shall submit deviation (excursion) reports which identify any material employed which does not meet the criteria in section B.1 above. The report shall be submitted within 45 days of the occurrence.
- The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month usage limitations for solvent and additive OC volatiles and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative usage levels.

E. Testing Requirements

- Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:
16.5 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum weight percent of solvent in the plastisol by the maximum production rate, or use OAC rule 3745-21-10(C).
Emission Limitation:
11.28 tons of OC per rolling, 12-month period for P004 through P009

Applicable Compliance Method:

Compliance shall be determined by totalling the following:

- i. plastisol emissions

Monthly record keeping of the solvent and additive OC volatiles usage for P004, P005, P006, P007, P008, and P009 as required in section B.2.

- ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum yearly amount of natural gas fired and divided by 2000 lbs/ton.
Emission Limitation:

1.8 lbs/hr of Stoddard solvent

Applicable Compliance Method

Multiply the maximum weight percent of Stoddard solvent in the plastisol by the maximum production rate.

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1677120007 Emissions Unit ID: P005 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

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

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

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plastisol dip molding - unit #5 with a capacity of 100 lbs/hr	OAC rule 3745-31-05 (PTI 16-1709)	5.5 lbs/hr of organic compounds (OC) 11.28 tons of OC per rolling, 12-month period for P004 through P009 0.6 lbs/hr of Stoddard solvent* *The Stoddard solvent is included in the allowable mass emissions for OC. See B.1 below.

OAC rule 3745-21-07(G)

2. **Additional Terms and Conditions**

- (a) None

B. **Operational Restrictions**

- 1. The permittee shall only employ materials in this emissions unit which meet the following criteria either pursuant to OAC rule 3745-21-07(G)(9)(c) or pursuant to OAC rule 3745-21-07(G)(9)(d):

OAC rule 3745-21-07(G)(9)(c):

- a. the volatile content of such material consists only of water and liquid organic material; and

b. the liquid organic material comprises not more than twenty percent of said volatile content; and

c. the volatile content is not a photochemically reactive material.

OAC rule 3745-21-07(G)(9)(d):

d. the volatile content of such material does not exceed twenty percent by volume of said material; and

e. the volatile content is not a photochemically reactive material.

2. The maximum annual solvent usage for P004, P005, P006, P007, P008, and P009 shall not exceed 18,000 pounds per year, based upon a rolling, 12-month summation of the solvent usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the solvent usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Solvent Usage
1	1500 pounds
1-2	3000 pounds
1-3	4500 pounds
1-4	6000 pounds
1-5	7500 pounds
1-6	9000 pounds
1-7	10,500 pounds
1-8	12,000 pounds
1-9	13,500 pounds
1-10	15,000 pounds
1-11	16,500 pounds
1-12	18,000 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual solvent usage limitation shall be based upon a rolling, 12-month summation of the solvent usage figures.

3. The additive organic compound (OC) volatiles from P004, P005, P006, P007, P008, and P009 shall not exceed 4104 pounds per year, based upon a rolling, 12-month summation of the monthly additive OC volatiles usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the additive OC volatiles levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Additive OC volatiles Usage
1	342 pounds
1-2	684 pounds
1-3	1026 pounds
1-4	1368 pounds
1-5	1710 pounds
1-6	2052 pounds
1-7	2394 pounds
1-8	2736 pounds
1-9	3078 pounds
1-10	3420 pounds
1-11	3762 pounds
1-12	4104 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual additive OC volatiles limitation shall be based upon a rolling, 12-month summation of the monthly amount of additive OC volatiles usage figures.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which document that each material employed in this emissions unit meets the criteria specified in section B.1 of this permit.
2. The permittee shall maintain monthly records of the following information:
 - a. the solvent usage, in pounds;
 - b. the additive OC volatiles usage, in pounds; and
 - c. beginning after the first 12 calendar months of operation following the issuance of PTI 16-1709, the rolling, 12-month summation of the solvent usage figures and the additive OC volatiles usage figures.

Also, during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall record the cumulative solvent usage and the cumulative additive OC volatiles usage for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any material employed which does not meet the criteria above in section B.1 above. The report shall be submitted within 45 days of the occurrence.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month usage limitations for solvent and additive OC volatiles and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative usage levels.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

5.5 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum weight percent of solvent in the plastisol by the maximum production rate, or use OAC rule 3745-21-10(C).
Emission Limitation:

11.28 tons of OC per rolling, 12-month period for P004 through P009

Applicable Compliance Method:

Compliance shall be determined by totalling the following:

i. plastisol emissions

Monthly record keeping of the solvent and additive OC volatiles usage for P004, P005, P006, P007, P008, and P009 as required in section B.2.

ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum yearly amount of natural gas fired and divided by 2000 lbs/ton.
Emission Limitation:

0.6 lbs/hr of Stoddard solvent

Applicable Compliance Method

Multiply the maximum weight percent of Stoddard solvent in the plastisol by the maximum production rate.

F. Miscellaneous Requirements

1. None

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Facility ID: 1677120007 Emissions Unit ID: P006 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plastisol dip molding - unit #6 with a capacity of 370 lbs/hr	OAC rule 3745-31-05 (PTI 16-1709)	20.4 lbs/hr of organic compounds (OC) 11.28 tons of OC per rolling, 12-month period for P004 through P009 2.22 lbs/hr of Stoddard solvent* *The Stoddard solvent is included in the allowable mass emissions for OC. 0.1 tpy of particulate emissions

0.9 tpy of nitrogen oxides (NOx)

0.2 tpy of carbon monoxide (CO)

0.004 tpy of sulfur dioxide (SO2)

See B.1 below.

OAC rule 3745-21-07(G)

2. Additional Terms and Conditions

(a) None

B. Operational Restrictions

1. The permittee shall only employ materials in this emissions unit which meet the following criteria either pursuant to OAC rule 3745-21-07(G)(9)(c) or pursuant to OAC rule 3745-21-07(G)(9)(d):

OAC rule 3745-21-07(G)(9)(c):

- a. the volatile content of such material consists only of water and liquid organic material; and
- b. the liquid organic material comprises not more than twenty percent of said volatile content; and
- c. the volatile content is not a photochemically reactive material.

OAC rule 3745-21-07(G)(9)(d):

- d. the volatile content of such material does not exceed twenty percent by volume of said material; and
- e. the volatile content is not a photochemically reactive material.

2. The maximum annual solvent usage for P004, P005, P006, P007, P008, and P009 shall not exceed 18,000 pounds per year, based upon a rolling, 12-month summation of the solvent usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the solvent usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Solvent Usage
1	1500 pounds
1-2	3000 pounds
1-3	4500 pounds
1-4	6000 pounds
1-5	7500 pounds
1-6	9000 pounds
1-7	10,500 pounds
1-8	12,000 pounds
1-9	13,500 pounds
1-10	15,000 pounds
1-11	16,500 pounds
1-12	18,000 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual solvent usage limitation shall be based upon a rolling, 12-month summation of the solvent usage figures.

3. The additive organic compound (OC) volatiles from P004, P005, P006, P007, P008, and P009 shall not exceed 4104 pounds per year, based upon a rolling, 12-month summation of the monthly additive OC volatiles usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the additive OC volatiles levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Additive OC volatiles Usage
1	342 pounds
1-2	684 pounds
1-3	1026 pounds
1-4	1368 pounds
1-5	1710 pounds
1-6	2052 pounds
1-7	2394 pounds
1-8	2736 pounds
1-9	3078 pounds
1-10	3420 pounds
1-11	3762 pounds
1-12	4104 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual additive OC volatiles limitation shall be based upon a rolling, 12-month summation of the monthly amount of additive OC volatiles usage figures.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which document that each material employed in this emissions unit meets

the criteria specified in section B.1 of this permit.

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

- a. the solvent usage, in pounds;
- b. the additive OC volatiles usage, in pounds; and
- c. beginning after the first 12 calendar months of operation following the issuance of PTI 16-1709, the rolling, 12-month summation of the solvent usage figures and the additive OC volatiles usage figures.

Also, during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall record the cumulative solvent usage and the cumulative additive OC volatiles usage for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any material employed which does not meet the criteria above in section B.1 above. The report shall be submitted within 45 days of the occurrence.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month usage limitations for solvent and additive OC volatiles and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative usage levels.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

20.4 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be determined by totalling the following products for each emissions unit:

- i. plastisol emissions

Multiply the maximum weight percent of solvent in the plastisol by the maximum production rate.

- ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired or use OAC rule 3745-21-10 (C).

Emission Limitation:

11.28 tons of OC per rolling, 12-month period for P004 through P009

Applicable Compliance Method:

Compliance shall be determined by totalling the following:

- i. plastisol emissions

Monthly record keeping of the solvent and additive OC volatiles usage for P004, P005, P006, P007, P008, and P009 as required in section B.2.

- ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum yearly amount of natural gas fired and divided by 2000 lbs/ton.

Emission Limitation:

2.22 lbs/hr of Stoddard solvent

Applicable Compliance Method

Multiply the maximum weight percent of Stoddard solvent in the plastisol by the maximum production rate.

Emission Limitation:

0.1 tpy of particulate emissions

Applicable Compliance Method:

Multiply the AP-42 particulate emission factor of 12.0 pounds of particulate emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.9 tpy of NOx

Applicable Compliance Method:

Multiply the AP-42 nitrogen oxides emission factor of 100.0 pounds of nitrogen oxides emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.2 tpy of CO

Applicable Compliance Method:

Multiply the AP-42 carbon monoxide emission factor of 21.0 pounds of carbon monoxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.004 tpy of SO2

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1677120007 Emissions Unit ID: P007 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plastisol dip molding - unit #7 with a process weight rate of 370 lbs/hr	OAC rule 3745-31-05 (PTI 16-1709)	20.4 lbs/hr of organic compounds (OC) 11.28 tons of OC per rolling, 12-month period for P004 through P009 2.22 lbs/hr of Stoddard solvent* *The Stoddard solvent is included in the allowable mass emissions for OC. 0.1 tpy of particulate emissions 1.1 tpy of nitrogen oxides (NOx) 0.2 tpy of carbon monoxide (CO) 0.004 tpy of sulfur dioxide (SO2) See B.1 below.

OAC rule 3745-21-07(G)

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

- 1. The permittee shall only employ materials in this emissions unit which meet the following criteria either pursuant to OAC rule 3745-21-07(G)(9)(c) or pursuant to OAC rule 3745-21-07(G)(9)(d):

OAC rule 3745-21-07(G)(9)(c):

- a. the volatile content of such material consists only of water and liquid organic material; and
- b. the liquid organic material comprises not more than twenty percent of said volatile content; and
- c. the volatile content is not a photochemically reactive material.

OAC rule 3745-21-07(G)(9)(d):

- d. the volatile content of such material does not exceed twenty percent by volume of said material; and
 - e. the volatile content is not a photochemically reactive material.
2. The maximum annual solvent usage for P004, P005, P006, P007, P008, and P009 shall not exceed 18,000 pounds per year, based upon a rolling, 12-month summation of the solvent usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the solvent usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Solvent Usage
1	1500 pounds
1-2	3000 pounds
1-3	4500 pounds
1-4	6000 pounds
1-5	7500 pounds
1-6	9000 pounds
1-7	10,500 pounds
1-8	12,000 pounds
1-9	13,500 pounds
1-10	15,000 pounds
1-11	16,500 pounds
1-12	18,000 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual solvent usage limitation shall be based upon a rolling, 12-month summation of the solvent usage figures.

3. The additive organic compound (OC) volatiles from P004, P005, P006, P007, P008, and P009 shall not exceed 4104 pounds per year, based upon a rolling, 12-month summation of the monthly additive OC volatiles usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the additive OC volatiles levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Additive OC volatiles Usage
1	342 pounds
1-2	684 pounds
1-3	1026 pounds
1-4	1368 pounds
1-5	1710 pounds
1-6	2052 pounds
1-7	2394 pounds
1-8	2736 pounds
1-9	3078 pounds
1-10	3420 pounds
1-11	3762 pounds
1-12	4104 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual additive OC volatiles limitation shall be based upon a rolling, 12-month summation of the monthly amount of additive OC volatiles usage figures.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which document that each material employed in this emissions unit meets the criteria specified in section B.1 of this permit.
2. The permittee shall maintain monthly records of the following information:
 - a. the solvent usage, in pounds;
 - b. the additive OC volatiles usage, in pounds; and
 - c. beginning after the first 12 calendar months of operation following the issuance of PTI 16-1709, the rolling, 12-month summation of the solvent usage figures and the additive OC volatiles usage figures.

Also, during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall record the cumulative solvent usage and the cumulative additive OC volatiles usage for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any material employed which does not meet the criteria above in section B.1 above. The report shall be submitted within 45 days of the occurrence.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month

usage limitations for solvent and additive OC volatiles and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative usage levels.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

20.4 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be determined by totalling the following products for each emissions unit:

- i. plastisol emissions

Multiply the maximum weight percent of solvent in the plastisol by the maximum production rate.

- ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired or use OAC rule 3745-21-10 (C).

Emission Limitation:

11.28 tons of OC per rolling, 12-month period for P004 through P009

Applicable Compliance Method:

Compliance shall be determined by totalling the following:

- i. plastisol emissions

Monthly record keeping of the solvent and additive OC volatiles usage for P004, P005, P006, P007, P008, and P009 as required in section B.2.

- ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum yearly amount of natural gas fired and divided by 2000 lbs/ton.

Emission Limitation:

2.22 lbs/hr of Stoddard solvent

Applicable Compliance Method

Multiply the maximum weight percent of Stoddard solvent in the plastisol by the maximum production rate.

Emission Limitation:

0.1 tpy of particulate emissions

Applicable Compliance Method:

Multiply the AP-42 particulate emission factor of 12.0 pounds of particulate emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

1.1 tpy of NOx

Applicable Compliance Method:

Multiply the AP-42 nitrogen oxides emission factor of 100.0 pounds of nitrogen oxides emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.2 tpy of CO

Applicable Compliance Method:

Multiply the AP-42 carbon monoxide emission factor of 21.0 pounds of carbon monoxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.004 tpy of SO2

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hour and divide by 2000 lbs/ton.

F. Miscellaneous Requirements

- 1. None

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

Facility ID: 1677120007 Emissions Unit ID: P008 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plastisol dip molding - unit #8 with a capacity of 350 lbs/hr	OAC rule 3745-31-05 (PTI 16-1709)	19.3 lbs/hr of organic compounds (OC) 11.28 tons of OC per rolling, 12-month period for P004 through P009 2.1 lbs/hr of Stoddard solvent* *The stoddard Solvent is included in the allowable mass emissions for OC. 0.1 tpy of particulate emissions 0.9 tpy of nitrogen oxides (NOx) 0.1 tpy of carbon monoxide (CO) 0.004 tpy of sulfur dioxide (SO2) See B.1 below.

OAC rule 3745-21-07(G)

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

- 1. The permittee shall only employ materials in this emissions unit which meet the following criteria either pursuant to OAC rule 3745-21-07(G)(9)(c) or pursuant to OAC rule 3745-21-07(G)(9)(d):
 - OAC rule 3745-21-07(G)(9)(c):
 - a. the volatile content of such material consists only of water and liquid organic material; and
 - b. the liquid organic material comprises not more than twenty percent of said volatile content; and
 - c. the volatile content is not a photochemically reactive material.
 - OAC rule 3745-21-07(G)(9)(d):
 - d. the volatile content of such material does not exceed twenty percent by volume of said material; and
 - e. the volatile content is not a photochemically reactive material.
- 2. The maximum annual solvent usage for P004, P005, P006, P007, P008, and P009 shall not exceed 18,000 pounds per year, based upon a rolling, 12-month summation of the solvent usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the solvent usage levels specified in the following table:

. Maximum Allowable Month(s) Cumulative Solvent Usage
1 1500 pounds
1-2 3000 pounds
1-3 4500 pounds
1-4 6000 pounds
1-5 7500 pounds
1-6 9000 pounds
1-7 10,500 pounds
1-8 12,000 pounds
1-9 13,500 pounds
1-10 15,000 pounds
1-11 16,500 pounds
1-12 18,000 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual solvent usage limitation shall be based upon a rolling, 12-month summation of the solvent usage figures.

3. The additive organic compound (OC) volatiles from P004, P005, P006, P007, P008, and P009 shall not exceed 4104 pounds per year, based upon a rolling, 12-month summation of the monthly additive OC volatiles usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the additive OC volatiles levels specified in the following table:

. Maximum Allowable . Cumulative Additive Month(s) OC volatiles Usage
1 342 pounds
1-2 684 pounds
1-3 1026 pounds
1-4 1368 pounds
1-5 1710 pounds
1-6 2052 pounds
1-7 2394 pounds
1-8 2736 pounds
1-9 3078 pounds
1-10 3420 pounds
1-11 3762 pounds
1-12 4104 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual additive OC volatiles limitation shall be based upon a rolling, 12-month summation of the monthly amount of additive OC volatiles usage figures.

C. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain records which document that each material employed in this emissions unit meets the criteria specified in section B.1 of this permit.
- The permittee shall maintain monthly records of the following information:
 - the solvent usage, in pounds;
 - the additive OC volatiles usage, in pounds; and
 - beginning after the first 12 calendar months of operation following the issuance of PTI 16-1709, the rolling, 12-month summation of the solvent usage figures and the additive OC volatiles usage figures.

Also, during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall record the cumulative solvent usage and the cumulative additive OC volatiles usage for each calendar month.

D. Reporting Requirements

- The permittee shall submit deviation (excursion) reports which identify any material employed which does not meet the criteria above in section B.1. The report shall be submitted within 45 days of the occurrence.
- The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month usage limitations for solvent and additive OC volatiles and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative usage levels.

E. Testing Requirements

- Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:
19.3 lbs/hr of OC
Applicable Compliance Method:
Compliance shall be determined by totaling for each emissions unit the following products:
 - plastisol emissions
 Multiply the maximum weight percent of solvent in the plastisol by the maximum production rate.

ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired or use OAC rule 3745-21-10 (C).

Emission Limitation:

11.28 tons OC prt rolling, 12-month period for P004 through P009

Applicable Compliance Method:

Compliance shall be determined by totalling the following:

i. plastisol emissions

Monthly record keeping of the solvent and additive OC volatiles usage for P004, P005, P006, P007, P008, and P009 as required in section B.2.

ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum yearly amount of natural gas fired and divided by 2000 lbs/ton.

Emission Limitation:

2.1 lbs/hr of Stoddard solvent

Applicable Compliance Method

Multiply the maximum weight percent of stoddard solvent in the plastisol by the maximum production rate.

Emission Limitation:

0.1 tpy of particulate emissions

Applicable Compliance Method:

Multiply the AP-42 particulate emission factor of 12.0 pounds of particulate emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.9 tpy of NOx

Applicable Compliance Method:

Multiply the AP-42 nitrogen oxides emission factor of 100.0 pounds of nitrogen oxides emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.1 tpy of CO

Applicable Compliance Method:

Multiply the AP-42 carbon monoxide emission factor of 21.0 pounds of carbon monoxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.004 tpy of SO2

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

F. **Miscellaneous Requirements**

1. None

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

Facility ID: 1677120007 Emissions Unit ID: P009 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the

exception of those listed below which are enforceable under state law only.

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

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plastisol dip molding - unit #9 with a capacity of 500 lbs/hr	OAC rule 3745-31-05 (PTI 16-1709)	27.5 lbs/hr of organic compounds (OC)
		11.28 tons of OC per rolling, 12-month period for P004 through P009
		3.0 lbs/hr of Stoddard solvent*
		*The Stoddard solvent is included in the allowable mass emissions for OC.
		0.2 tpy of particulate emissions
		1.75 tpy of nitrogen oxides (NOx)
		0.4 tpy of carbon monoxide (CO)
		0.01 tpy of sulfur dioxide (SO2)
		See B.1 below.

OAC rule 3745-21-07(G)

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

- 1. The permittee shall only employ materials in this emissions unit which meet the following criteria either pursuant to OAC rule 3745-21-07(G)(9)(c) or pursuant to OAC rule 3745-21-07(G)(9)(d):

OAC rule 3745-21-07(G)(9)(c):

- a. the volatile content of such material consists only of water and liquid organic material; and
- b. the liquid organic material comprises not more than twenty percent of said volatile content; and
- c. the volatile content is not a photochemically reactive material.

OAC rule 3745-21-07(G)(9)(d):

- d. the volatile content of such material does not exceed twenty percent by volume of said material; and
- e. the volatile content is not a photochemically reactive material.

- 2. The maximum annual solvent usage for P004, P005, P006, P007, P008, and P009 shall not exceed 18,000 pounds per year, based upon a rolling, 12-month summation of the solvent usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the solvent usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Solvent Usage
1	1500 pounds
1-2	3000 pounds
1-3	4500 pounds
1-4	6000 pounds
1-5	7500 pounds
1-6	9000 pounds
1-7	10,500 pounds
1-8	12,000 pounds
1-9	13,500 pounds
1-10	15,000 pounds
1-11	16,500 pounds
1-12	18,000 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual solvent usage limitation shall be based upon a rolling, 12-month summation of the solvent usage figures.

3. The additive organic compound (OC) volatiles from P004, P005, P006, P007, P008, and P009 shall not exceed 4104 pounds per year, based upon a rolling, 12-month summation of the monthly additive OC volatiles usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall not exceed the additive OC volatiles levels specified in the following table:

. Maximum Allowable . Cumulative Additive Month(s) OC volatiles Usage
1 342 pounds
1-2 684 pounds
1-3 1026 pounds
1-4 1368 pounds
1-5 1710 pounds
1-6 2052 pounds
1-7 2394 pounds
1-8 2736 pounds
1-9 3078 pounds
1-10 3420 pounds
1-11 3762 pounds
1-12 4104 pounds

After the first 12 calendar months of operation following the issuance of PTI 16-1709, compliance with the annual additive OC volatiles limitation shall be based upon a rolling, 12-month summation of the monthly amount of additive OC volatiles usage figures.

C. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain records which document that each material employed in this emissions unit meets the criteria specified in section B.1 of this permit.
- The permittee shall maintain monthly records of the following information:
 - the solvent usage, in pounds;
 - the additive OC volatiles usage, in pounds; and
 - beginning after the first 12 calendar months of operation following the issuance of PTI 16-1709, the rolling, 12-month summation of the solvent usage figures and the additive OC volatiles usage figures.

Also, during the first 12 calendar months of operation following the issuance of PTI 16-1709, the permittee shall record the cumulative solvent usage and the cumulative additive OC volatiles usage for each calendar month.

D. Reporting Requirements

- The permittee shall submit deviation (excursion) reports which identify any material employed which does not meet the criteria above in section B.1 above. The report shall be submitted within 45 days of the occurrence.
- The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month usage limitations for solvent and additive OC volatiles and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative usage levels.

E. Testing Requirements

- Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

27.5 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be determined by totaling for each emissions unit the following products:

- plastisol emissions

Multiply the maximum weight percent of solvent in the plastisol by the maximum production rate.

- natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired or use OAC rule 3745-21-10 (C).

Emission Limitation:

11.28 tons of OC per rolling, 12-month period for P004 through P009

Applicable Compliance Method:

Compliance shall be determined by totalling the following:

- plastisol emissions

Monthly record keeping of the solvent and additive OC volatiles usage for P004, P005, P006, P007, P008, and

P009 as required in section B.2.

ii. natural gas combustion

Multiply the AP-42 organic compound emission factor of 5.8 pounds of organic compound emissions per million cubic feet of natural gas fired by the maximum yearly amount of natural gas fired and divided by 2000 lbs/ton.
Emission Limitation:

3.0 lbs/hr of Stoddard solvent

Applicable Compliance Method

Multiply the maximum weight percent of Stoddard solvent in the plastisol by the maximum production rate.
Emission Limitation:

0.2 tpy of particulate emissions

Applicable Compliance Method:

Multiply the AP-42 particulate emission factor of 12.0 pounds of particulate emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

1.75 tpy of NOx

Applicable Compliance Method:

Multiply the AP-42 nitrogen oxides emission factor of 100.0 pounds of nitrogen oxides emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.4 tpy of CO

Applicable Compliance Method:

Multiply the AP-42 carbon monoxide emission factor of 21.0 pounds of carbon monoxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

Emission Limitation:

0.01 tpy of SO2

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas fired by the maximum hourly amount of natural gas fired times 8760 hours and divide by 2000 lbs/ton.

F. **Miscellaneous Requirements**

1. None