

Facility ID: 0679010013 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 P029](#)
[Go to Part II for Emissions Unit P038](#)
[Go to Part II for Emissions Unit P039](#)

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Facility ID: 0679010013 Emissions Unit ID: P029 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>
Polyamide Reactor V-955	OAC rule 3745-31-05(A)(3) PTI # 06-1443	This PTI only required compliance with the applicable law that was in effect on the date the permit was issued.
	OAC rule 3745-35-07	See Sections A.2.b - A.2.g.
	OAC rule 3745-21-07(G)(2)	The permittee shall not discharge more than forty pounds of organic material into the atmosphere in any one day, nor more than eight pounds in any one hour, from any article, machine, equipment, or other contrivance for employing, applying, evaporating or drying any photochemically reactive material, or substance containing such photochemically reactive material, unless said discharge has been reduced by at least eighty-five per cent. See Section A.2.h.

2. Additional Terms and Conditions

- (a) The Polyamide Plant has three reactors [P038, P029, and P039 (945, 955, and 965, respectively)] and associated equipment, including several process storage tanks (T019, T020, T940, T949, T950, T951, and T953), an unloading station (for tanks trucks), and a loading station (for drums and tank trucks). The Polyamide Plant emits three regulated air pollutants: toluene, xylene, and volatile organic compounds (VOC). These emissions are generated from drum/tank truck loading activities, continuous breathing losses from process tanks, and material transfer activities. Minuscule fugitive emissions occur from valves, flanges, and pumps. The Polyamide Plant sends small amounts of toluene, xylene, and VOC solvents to the wastewater treatment plant which results in emissions of these regulated air pollutants at that location.
Emissions of each individual hazardous air pollutant (HAP) shall not exceed 9.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of total combined HAPs shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of total VOC shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of each individual HAP shall not exceed 9.0 tons during any rolling 12-month period from the entire facility.
Emissions of total combined HAPs shall not exceed 24.0 tons during any rolling 12-month period from the entire facility.
Emissions of total VOC shall not exceed 95.0 tons during any rolling 12-month period from the entire facility.
This emissions unit is not vented to the atmosphere. Solvent vapors circulate through a condenser. Mass balance calculations have determined that 97-98% of solvent additions remain in the final products. The remainder is entrained in the wastewater and is processed in the treatment plant. Therefore, except for the minor fugitive emissions that may occur from valves, flanges and pumps, there shall be no VOC, OC and HAP emissions from the reactor vents or during the transfer of materials into or from this emissions unit. Continued compliance with this requirement will obviate the

need for monitoring, record keeping and reporting requirements to demonstrate ongoing compliance with OAC rule 3745-21-07.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For each product generated in this emissions unit, the permittee shall develop an accurate emission factor for the emissions of each individual HAP and the total amount of VOC emitted from the manufacture of that product. The emission factors shall be in units of tons of pollutant emitted per pound of key input material used for each product generated. The permittee's calculation of each emission factor shall be submitted to the Ohio EPA Southeast District Office prior to the use of the emission factor in calculating emissions for this facility.
2. The permittee shall maintain monthly records of the following information for the Polyamide Plant:
 - a. the company identification for each product manufactured;
 - b. the number of pounds of key input material employed for the product;
 - c. the individual HAP emission factor for the product, in tons of pollutant emitted per pound of key input material;
 - d. the individual HAP emission rate for each product, in tons (b x c);
 - e. the VOC emission factor for the product, in tons of pollutant emitted per pound of key input material employed;
 - f. the VOC emission rate for each product, in tons (b x e);
 - g. the total emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC for all Polyamide Plant products, in tons; and
 - h. the total, rolling 12-month emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC for all Polyamide Plant products, for the previous twelve-month period, in tons.
3. The permittee shall maintain monthly records of the following information:
 - a. the total emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC from the entire facility, in tons; and
 - b. the total, rolling 12-month emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC from the entire facility, in tons.

D. Reporting Requirements

1. The permittee shall notify the Southeast District Office in writing of any record that shows a deviation of the allowable rolling 12-month individual HAP, combined HAPs and/or VOC emission limitations for either the Polyamide Plant and/or the entire facility, based upon the calculated emission rates from Sections C.2 and C.3 above. The notification shall include a copy of such record and shall be sent to the Southeast District Office within 45 days after the deviation occurs.
2. The permittee shall submit an annual summary of the emissions data required by Sections C.2 and C.3 by February 15 of each year.

E. Testing Requirements

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

Emissions Limitations:

Emissions of any individual hazardous air pollutant (HAP) shall not exceed 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of any individual HAP shall not exceed 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 24.0 tons during any rolling 12-month period from the entire facility.

Emissions of total VOC shall not exceed 95.0 tons during any rolling 12-month period from the entire facility.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in sections C.2 and C.3, using the following currently approved emission factors and key input materials for the specified products:

Product Xylene Toluene VOC Key Input

A NONE NONE 1.150 E-06 Butanol
 B 1.880 E-06 NONE 1.880 E-06 Xylene
 C NONE NONE 2.050 E-06 IPA
 D 1.750 E-07 4.450 E-07 1.061 E-06 Tol/Xy/PGME
 E 1.290 E-06 NONE 1.290 E-06 Xylene

E1 7.660 E-07 NONE 7.660 E-07 Xylene
 F NONE 3.280 E-06 3.280 E-06 Toluene
 G NONE 2.100 E-06 2.100 E-06 Toluene
 H NONE 3.820 E-06 6.622 E-06 Tol/IPA
 J NONE NONE 2.480 E-06 IPA
 K NONE 5.700 E-06 1.157 E-06 Tol/IPA
 L NONE 7.620 E-07 7.620 E-07 Toluene
 M NONE NONE 5.740 E-07 EGMP
 N NONE NONE 3.920 E-07 EDA

The emission factor[s] for each product manufactured in the Polyamide Plant include[s] all the emissions that would occur from the emissions units and other operations and sources identified in paragraph A.2.a.

The emission constants for tank breathing losses and leaks from valves, flanges and pumps are as follows: toluene = 0.059 ton per month; xylene = 0.030 ton per month; and VOC = 0.12 ton per month.

NOTE: If the permittee documents that no toluene or xylene has been stored in any of the equipment identified in section A.2.a. during the given month, the corresponding emission constant does not need to be included in the monthly emission calculations.

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2) and PTI # 06-4536, all of these terms and conditions are federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit and, therefore, avoid Title V applicability.

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Facility ID: 0679010013 Emissions Unit ID: P038 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>
Polyamide Reactor V-945	OAC rule 3745-31-05(A)(3) PTI # 06-1443	This PTI only required compliance with the applicable law that was in effect on the date the permit was issued.
	OAC rule 3745-35-07	See Sections A.2.b - A.2.g.
	OAC rule 3745-21-07(G)(2)	The permittee shall not discharge more than forty pounds of organic material into the atmosphere in any one day, nor more than eight pounds in any one hour, from any article, machine, equipment, or other contrivance for employing, applying, evaporating or drying any photochemically reactive material, or substance containing such photochemically reactive material, unless said discharge has been reduced by at least eighty-five per cent. See Section A.2.h.

2. Additional Terms and Conditions

- (a) The Polyamide Plant has three reactors [P038, P029, and P039 (945, 955, and 965, respectively)] and associated equipment, including several process storage tanks (T019, T020, T940, T949, T950, T951, and T953), an unloading station (for tanks trucks), and a loading station (for drums and tank trucks). The Polyamide Plant emits three regulated air pollutants: toluene, xylene, and volatile organic compounds (VOC). These emissions are generated from drum/tank truck loading activities, continuous breathing losses from process tanks, and material transfer activities. Minuscule fugitive emissions occur from valves, flanges, and pumps. The Polyamide Plant sends small amounts of toluene, xylene, and VOC solvents to the wastewater treatment plant which results in emissions of these regulated air

pollutants at that location.

Emissions of each individual hazardous air pollutant (HAP) shall not exceed 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of each individual HAP shall not exceed 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 24.0 tons during any rolling 12-month period from the entire facility.

Emissions of total VOC shall not exceed 95.0 tons during any rolling 12-month period from the entire facility.

This emissions unit is not vented to the atmosphere. Solvent vapors circulate through a condenser. Mass balance calculations have determined that 97-98% of solvent additions remain in the final products. The remainder is entrained in the wastewater and is processed in the treatment plant. Therefore, except for the minor fugitive emissions that may occur from valves, flanges and pumps, there shall be no VOC, OC and HAP emissions from the reactor vents or during the transfer of materials into or from this emissions unit. Continued compliance with this requirement will obviate the need for monitoring, record keeping and reporting requirements to demonstrate ongoing compliance with OAC rule 3745-21-07.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For each product generated in this emissions unit, the permittee shall develop an accurate emission factor for the emissions of each individual HAP and the total amount of VOC emitted from the manufacture of that product. The emission factors shall be in units of tons of pollutant emitted per pound of key input material used for each product generated. The permittee's calculation of each emission factor shall be submitted to the Ohio EPA Southeast District Office prior to the use of the emission factor in calculating emissions for this facility.
2. The permittee shall maintain monthly records of the following information for the Polyamide Plant:
 - a. the company identification for each product manufactured;
 - b. the number of pounds of key input material employed for the product;
 - c. the individual HAP emission factor for the product, in tons of pollutant emitted per pound of key input material;
 - d. the individual HAP emission rate for each product, in tons (b x c);
 - e. the VOC emission factor for the product, in tons of pollutant emitted per pound of key input material employed;
 - f. the VOC emission rate for each product, in tons (b x e);
 - g. the total emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC for all Polyamide Plant products, in tons; and
 - h. the total, rolling 12-month emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC for all Polyamide Plant products, for the previous twelve-month period, in tons.
3. The permittee shall maintain monthly records of the following information:
 - a. the total emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC from the entire facility, in tons; and
 - b. the total, rolling 12-month emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC from the entire facility, in tons.

D. Reporting Requirements

1. The permittee shall notify the Southeast District Office in writing of any record that shows a deviation of the allowable rolling 12-month individual HAP, combined HAPs and/or VOC emission limitations for either the Polyamide Plant and/or the entire facility, based upon the calculated emission rates from Sections C.2 and C.3 above. The notification shall include a copy of such record and shall be sent to the Southeast District Office within 45 days after the deviation occurs.
2. The permittee shall submit an annual summary of the emissions data required by Sections C.2 and C.3 by February 15 of each year.

E. Testing Requirements

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

Emissions Limitations:

Emissions of any individual hazardous air pollutant (HAP) shall not exceed 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of any individual HAP shall not exceed 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 24.0 tons during any rolling 12-month period from the entire facility.

Emissions of total VOC shall not exceed 95.0 tons during any rolling 12-month period from the entire facility.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in sections C.2 and C.3, using the following currently approved emission factors and key input materials for the specified products:

Product Xylene Toluene VOC Key Input

- A NONE NONE 1.150 E-06 Butanol
- B 1.880 E-06 NONE 1.880 E-06 Xylene
- C NONE NONE 2.050 E-06 IPA
- D 1.750 E-07 4.450 E-07 1.061 E-06 Tol/Xy/PGME
- E 1.290 E-06 NONE 1.290 E-06 Xylene
- E1 7.660 E-07 NONE 7.660 E-07 Xylene
- F NONE 3.280 E-06 3.280 E-06 Toluene
- G NONE 2.100 E-06 2.100 E-06 Toluene
- H NONE 3.820 E-06 6.622 E-06 Tol/IPA
- J NONE NONE 2.480 E-06 IPA
- K NONE 5.700 E-06 1.157 E-06 Tol/IPA
- L NONE 7.620 E-07 7.620 E-07 Toluene
- M NONE NONE 5.740 E-07 EGMP
- N NONE NONE 3.920 E-07 EDA

The emission factor[s] for each product manufactured in the Polyamide Plant include[s] all the emissions that would occur from the emissions units and other operations and sources identified in paragraph A.2.a.

The emission constants for tank breathing losses and leaks from valves, flanges and pumps are as follows: toluene = 0.059 ton per month; xylene = 0.030 ton per month; and VOC = 0.12 ton per month.

NOTE: If the permittee documents that no toluene or xylene has been stored in any of the equipment identified in section A.2.a. during the given month, the corresponding emission constant does not need to be included in the monthly emission calculations.

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2) and PTI # 06-4536, all of these terms and conditions are federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit and, therefore, avoid Title V applicability.

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

Facility ID: 0679010013 Emissions Unit ID: P039 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>
Polyamide Reactor V-965	OAC rule 3745-31-05(A)(3) PTI # 06-4536	See Sections A.2.a - A.2.i.
	OAC rule 3745-35-07	See Sections A.2.b - A.2.g.
	OAC rule 3745-21-07(G)(2)	The permittee shall not discharge more than forty pounds of organic material into the atmosphere in any one day, nor more than eight pounds in any one hour, from any article, machine, equipment, or other

contrivance for employing, applying, evaporating or drying any photochemically reactive material, or substance containing such photochemically reactive material, unless said discharge has been reduced by at least eighty-five per cent.
See Section A.2.h.

2. Additional Terms and Conditions

- (a) The Polyamide Plant has three reactors [P038, P029, and P039 (945, 955, and 965, respectively)] and associated equipment, including several process storage tanks (T019, T020, T940, T949, T950, T951, and T953), an unloading station (for tanks trucks), and a loading station (for drums and tank trucks). The Polyamide Plant emits three regulated air pollutants: toluene, xylene, and volatile organic compounds (VOC). These emissions are generated from drum/tank truck loading activities, continuous breathing losses from process tanks, and material transfer activities. Minuscule fugitive emissions occur from valves, flanges, and pumps. The Polyamide Plant sends small amounts of toluene, xylene, and VOC solvents to the wastewater treatment plant which results in emissions of these regulated air pollutants at that location.
Emissions of each individual hazardous air pollutant (HAP) shall not exceed 18.7 pounds per hour and 9.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of total combined HAPs shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of total VOC shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of each individual HAP shall not exceed 9.0 tons during any rolling 12-month period from the entire facility.
Emissions of total combined HAPs shall not exceed 24.0 tons during any rolling 12-month period from the entire facility.
Emissions of total VOC shall not exceed 95.0 tons during any rolling 12-month period from the entire facility.
This emissions unit is not vented to the atmosphere. Solvent vapors circulate through a condenser. Mass balance calculations have determined that 97-98% of solvent additions remain in the final products. The remainder is entrained in the wastewater and is processed in the treatment plant. Therefore, except for the minor fugitive emissions that may occur from valves, flanges and pumps, there shall be no VOC, OC and HAP emissions from the reactor vents or during the transfer of materials into or from this emissions unit. Continued compliance with this requirement will obviate the need for monitoring, record keeping and reporting requirements to demonstrate ongoing compliance with OAC rule 3745-21-07.
When transferring a batch from a reactor to a process tank or tank truck, the reactor gases shall be passed through a condenser that condenses 90% of the gases. [Although this requirement was specified in the Permit to Install, due to the configuration of the reactor system and the manner in which it is operated, it is not feasible to perform emission tests to demonstrate compliance with this requirement.]

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For each product generated in this emissions unit, the permittee shall develop an accurate emission factor for the emissions of each individual HAP and the total amount of VOC emitted from the manufacture of that product. The emission factors shall be in units of tons of pollutant emitted per pound of key input material used for each product generated. The permittee's calculation of each emission factor shall be submitted to the Ohio EPA Southeast District Office prior to the use of the emission factor in calculating emissions for this facility.
2. The permittee shall maintain monthly records of the following information for the Polyamide Plant:
- the company identification for each product manufactured;
 - the number of pounds of key input material employed for the product;
 - the individual HAP emission factor for the product, in tons of pollutant emitted per pound of key input material;
 - the individual HAP emission rate for each product, in tons (b x c);
 - the VOC emission factor for the product, in tons of pollutant emitted per pound of key input material employed;
 - the VOC emission rate for each product, in tons (b x e);
 - the total emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC for all Polyamide Plant products, in tons;
 - the total, rolling 12-month emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC for all Polyamide Plant products, for the previous twelve-month period, in tons;
 - the hours of operation for each of the reactors; and
 - the average hourly individual HAP emission rate, in pounds per hour, i.e., the highest total emissions from [g] of the individual HAPs emitted, divided by the highest number of hours of operation of the reactors in operation.
3. The permittee shall maintain monthly records of the following information:
- the total emissions, including the emission constants [see E.1], of each individual HAP, combined HAPs and VOC from the entire facility, in tons; and
 - the total, rolling 12-month emissions, including the emission constants [see E.1], of each individual HAP,

combined HAPs and VOC from the entire facility, in tons.

D. Reporting Requirements

1. The permittee shall notify the Southeast District Office in writing of any record that shows a deviation of the allowable rolling 12-month individual HAP, combined HAPs and/or VOC emission limitations for either the Polyamide Plant and/or the entire facility, based upon the calculated emission rates from Sections C.2 and C.3 above. The notification shall include a copy of such record and shall be sent to the Southeast District Office within 45 days after the deviation occurs.
2. The permittee shall submit an annual summary of the emissions data required by Sections C.2 and C.3 by February 15 of each year.

E. Testing Requirements

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

Emissions Limitations:

Emissions of any individual hazardous air pollutant (HAP) shall not exceed 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of any individual HAP shall not exceed 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 24.0 tons during any rolling 12-month period from the entire facility.

Emissions of total VOC shall not exceed 95.0 tons during any rolling 12-month period from the entire facility.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in sections C.2 and C.3, using the following currently approved emission factors and key input materials for the specified products:

Product Xylene Toluene VOC Key Input

A NONE NONE 1.150 E-06 Butanol
 B 1.880 E-06 NONE 1.880 E-06 Xylene
 C NONE NONE 2.050 E-06 IPA
 D 1.750 E-07 4.450 E-07 1.061 E-06 Tol/Xy/PGME
 E 1.290 E-06 NONE 1.290 E-06 Xylene
 E1 7.660 E-07 NONE 7.660 E-07 Xylene
 F NONE 3.280 E-06 3.280 E-06 Toluene
 G NONE 2.100 E-06 2.100 E-06 Toluene
 H NONE 3.820 E-06 6.622 E-06 Tol/IPA
 J NONE NONE 2.480 E-06 IPA
 K NONE 5.700 E-06 1.157 E-06 Tol/IPA
 L NONE 7.620 E-07 7.620 E-07 Toluene
 M NONE NONE 5.740 E-07 EGMP
 N NONE NONE 3.920 E-07 EDA

The emission factor[s] for each product manufactured in the Polyamide Plant include[s] all the emissions that would occur from the emissions units and other operations and sources identified in paragraph A.2.a.

The emission constants for tank breathing losses and leaks from valves, flanges and pumps are as follows: toluene = 0.059 ton per month; xylene = 0.030 ton per month; and VOC = 0.12 ton per month.

NOTE: If the permittee documents that no toluene or xylene has been stored in any of the equipment identified in section A.2.a. during the given month, the corresponding emission constant does not need to be included in the monthly emission calculations.

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2) and PTI # 06-4536, all of these terms and conditions are federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit and, therefore, avoid Title V applicability.
2. If the permittee develops a new product that emits any regulated air pollutant, the permittee shall evaluate the product's implications on federal and state regulations. If this evaluation shows that the new product emissions are applicable to federal or state regulations, the permittee shall be required either (1) to comply with those rules, (2) to develop new emission limitations to avoid applicability, or (3) install emission controls to avoid applicability. If the permittee uses methods 2 or 3, the permittee shall develop an emission factor for that product and submit the revisions, with documentation, and an applicability determination to OEPA/SEDO before commencing production. If method 1 is used, the permittee shall follow the procedures specified in those regulations.
3. If the permittee modifies existing equipment, the permittee shall evaluate implications on federal and state regulations. If this evaluation shows that the modification is applicable to federal or state regulations, the permittee shall be required either (1) to comply with those rules, (2) to develop new emission limitations to avoid applicability, or (3) install emission controls to avoid applicability. If the permittee uses methods 2 or 3, the permittee shall submit the revisions, with documentation, and an applicability determination to OEPA/SEDO before commencing production. If method 1 is used, the permittee shall follow the procedures specified in those

regulations.

4. If the permittee constructs new equipment or obtains new emission information, the permittee shall evaluate the implications on emissions and on federal and state regulations. If this evaluation shows an increase or a decrease in emissions, the permittee shall revise all the affected product's emission factors and revise the emission constants. If this evaluation shows that the new emissions are applicable to federal or state regulations, the permittee shall be required either (1) to comply with those rules, (2) to develop new emission limitations to avoid applicability, or (3) to install engineering emission controls to avoid applicability. If the permittee uses methods 2 or 3, the permittee shall submit to OEPA/SEDO the emission factor and emission constant revisions, with documentation, an applicability determination, and, if appropriate, a PTI application before commencing construction. If method 1 is used, the permittee shall follow the procedures specified in those regulations.
5. Prior to beginning any change that requires a PTI under federal or Ohio rules, a PTI shall be obtained.