

Facility ID: 0679010013 Issuance type: Draft 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](#)

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

Facility ID: 0679010013 Emissions Unit ID: P029 Issuance type: Draft 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)	exempt [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 1.8 tons per month and 9.0 tons during any rolling 12-month period from the Polyamide Plant. Emissions of total combined HAPs shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant. Emissions of total VOC shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant. Emissions of each individual HAP shall not exceed 1.8 tons per month and 9.0 tons during any rolling 12-month period from the entire facility. Emissions of total combined HAPs shall not exceed 3.7 tons per month and 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. The permittee shall not employ any photochemically reactive material [as defined in OAC rule 3745-21-01(C)] in this emissions unit.

B. Operational Restrictions

1. Reactor vents shall be open only when charging or transferring materials.

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.
4. The permittee shall maintain daily records of each material employed in this emissions unit and whether or not it is a photochemically reactive material.
- D. Reporting Requirements**
- 1. The permittee shall notify the Southeast District Office in writing of any record that shows a deviation of the allowable monthly and/or 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.
 - 3. The permittee shall submit deviation reports that identify each day a photochemically reactive material is employed in this emissions unit. Each report shall be submitted within 30 days after a deviation occurs.

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 1.8 tons per month and 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed either 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of any individual HAP shall not exceed 1.8 tons per month and 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 3.7 tons per month and 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 4.400 E-07 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 2.800 E-06 Tol/IPA
 J NONE NONE 2.480 E-06 IPA
 K NONE 5.700 E-06 5.870 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: Draft 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)	exempt [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 1.8 tons per month and 9.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of total combined HAPs shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of total VOC shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.
Emissions of each individual HAP shall not exceed 1.8 tons per month and 9.0 tons during any rolling 12-month period from the entire facility.
Emissions of total combined HAPs shall not exceed 3.7 tons per month and 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.
The permittee shall not employ any photochemically reactive material [as defined in OAC rule 3745-21-01(C)] in this emissions unit.

B. Operational Restrictions

1. Reactor vents shall be open only when charging or transferring materials.

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.
 4. The permittee shall maintain daily records of each material employed in this emissions unit and whether or not it is a photochemically reactive material.
- D. Reporting Requirements**
1. The permittee shall notify the Southeast District Office in writing of any record that shows a deviation of the allowable monthly and/or 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.
 3. The permittee shall submit deviation reports that identify each day a photochemically reactive material is employed in this emissions unit. Each report shall be submitted within 30 days after a deviation occurs.
- 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 1.8 tons per month and 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed either 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of any individual HAP shall not exceed 1.8 tons per month and 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 3.7 tons per month and 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 4.400 E-07 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 2.800 E-06 Tol/IPA
 J NONE NONE 2.480 E-06 IPA
 K NONE 5.700 E-06 5.870 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: Draft 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 # 06-1443	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)	exempt [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, 1.8 tons per month, and 9.0 tons during any rolling 12-month period from the Polyamide Plant.
 Emissions of total combined HAPs shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.
 Emissions of total VOC shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.
 Emissions of each individual HAP shall not exceed 1.8 tons per month and 9.0 tons during any rolling 12-month period from the entire facility.
 Emissions of total combined HAPs shall not exceed 3.7 tons per month and 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.

The permittee shall not employ any photochemically reactive material [as defined in OAC rule 3745-21-01(C)] in this emissions unit.

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.

B. Operational Restrictions

1. Reactor vents shall be open only when charging or transferring materials.

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;
 - 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;
 - i. the hours of operation for each of the reactors; and
 - j. 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:
 - 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.
4. The permittee shall maintain daily records of each material employed in this emissions unit and whether or not it is a photochemically reactive material.

D. Reporting Requirements

1. The permittee shall notify the Southeast District Office in writing of any record that shows a deviation of the allowable monthly and/or 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.
3. The permittee shall submit deviation reports that identify each day a photochemically reactive material is employed in this emissions unit. Each report shall be submitted within 30 days after a deviation occurs.

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 1.8 tons per month and 9.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total combined HAPs shall not exceed either 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of total VOC shall not exceed 3.7 tons per month and 19.0 tons during any rolling 12-month period from the Polyamide Plant.

Emissions of any individual HAP shall not exceed 1.8 tons per month and 9.0 tons during any rolling 12-month period from the entire facility.

Emissions of total combined HAPs shall not exceed 3.7 tons per month and 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 4.400 E-07 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 2.800 E-06 Tol/IPA
 J NONE NONE 2.480 E-06 IPA
 K NONE 5.700 E-06 5.870 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.

2. The permittee shall perform emission tests for each reactor in the Polyamide Plant on an annual basis, beginning in 2004, to demonstrate compliance with the condenser efficiency specified in A.2.i. The emission tests shall be performed in accordance with USEPA test methods and procedures.

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

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

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

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.