



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
LUCAS COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 04-01378

Fac ID: 0448011550

DATE: 10/12/2006

Dynea USA Inc
Stephanie Heldt
6175 American Rd
Toledo, OH 43612

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

TDES



**Permit To Install
Terms and Conditions**

**Issue Date: 10/12/2006
Effective Date: 10/12/2006**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 04-01378

Application Number: 04-01378
Facility ID: 0448011550
Permit Fee: **\$1975**
Name of Facility: Dynea USA Inc
Person to Contact: Stephanie Heldt
Address: 6175 American Rd
Toledo, OH 43612

Location of proposed air contaminant source(s) [emissions unit(s)]:

**6175 American Rd
Toledo, Ohio**

Description of proposed emissions unit(s):

HAP limits corrected to be regulated by BAT.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to

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the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

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4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be

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kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or

required under this permit.

- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

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11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

12. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Permit Transfers

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Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

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4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

6. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

7. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

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8. Construction Compliance Certification

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit-To-Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	39.2(0.35 tpy increase)

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Dyne:

PTI A

Modification Issued: 10/12/2006

Emissions Unit ID: **P001**

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P001 - Kettle 1 modification/ Urea-formaldehyde and phenol-formaldehyde resin manufacturing process with wet scrubber and electrically heated catalytic oxidizer control	OAC rule 3745-31-05(A)(3)	0.22 pound per hour and 0.96 ton per year volatile organic compounds (VOC). Visible particulate emissions from the catalytic incinerator stack shall not exceed 0% opacity, as a 6-minute average.
	OAC rule 3745-21-09(DD)	0.137 pound per hour and 0.6 ton per year formaldehyde emissions; 0.023 pound per hour and 0.1 ton per year methanol emissions; and 0.023 pound per hour and 0.1 ton per year phenol emissions. See section A.2.a.
	OAC rule 3745-21-09(EE)	See section A.2.b. See section A.2.c.

2. Additional Terms and Conditions

- 2.a The requirements of this rule include compliance with the requirements of OAC rules 3745-21-09(DD) and 3745-21-09(EE). Fugitive emissions from equipment leaks are included in emissions unit P801.
- 2.b The permittee shall comply with all applicable requirements of OAC rule 3745-21-09(DD).

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Fugitive emissions from equipment leaks are included in P801.

- 2.c** The permittee shall vent emissions to a catalytic incinerator that is designed and operated to:
- i. reduce emissions of total organic compounds (less methane & ethane) with an efficiency of at least 98 % by weight; or
 - ii. emit VOC at a concentration less than 20 parts per million by volume, dry basis.

B. Operational Restrictions

1. The average temperature of the exhaust gases immediately before the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance. The average temperature difference across the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 80 percent of the average temperature difference during the most recent emission test that demonstrated the emissions unit was in compliance.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain continuous temperature monitors and recorder(s) which measure and record(s) the temperature immediately upstream and downstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitors and recorder(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

- a. All 3-hour blocks of time (when the emissions unit was in operation) during which the average temperature of the exhaust gases immediately before the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

- b. All 3-hour blocks of time (when the emissions unit was in operation) during which the average temperature difference across the catalyst bed was less than 80 percent of the average temperature difference during the most recent emission test that demonstrated the emissions unit was in compliance.
 - c. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
 2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all 3-hour blocks of time when the emissions unit was in operation during which the average temperature of the exhaust gases immediately before the catalyst bed or the average temperature difference across the catalyst bed does not comply with the temperature limitations specified above.
2. The permittee shall submit written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions.
3. The permittee shall submit to the City of Toledo, Division of Environmental Services quarterly summaries of these records. These quarterly reports shall be submitted by April 30, July 31, October 31 and January 31, and shall cover the records for the previous calendar quarter.

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:

a. Emission Limitation:

Visible emissions from the stack shall not exceed 0% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods in 40 CFR, Part 60, Appendix A.

b. Emission Limitation

VOC emissions shall not exceed 0.22 lb VOC/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 18 or 1 through 4 and 25A of 40 CFR Part 60 Appendix A, as appropriate, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

c. Emission Limitation

VOC emissions shall not exceed 0.96 ton/yr VOC.

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

d. Emission Limitation

Formaldehyde emissions shall not exceed 0.137 lb Formaldehyde/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 18 of

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40 CFR Part 60 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

e. Emission Limitation

Formaldehyde emissions shall not exceed 0.6 ton/yr Formaldehyde

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

f. Emission Limitation

Methanol emissions shall not exceed 0.023 lb Methanol/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 308 of 40 CFR Part 63 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

g. Emission Limitation

Methanol emissions shall not exceed 0.1 ton/yr Methanol

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

h. Emission Limitation

Phenol emissions shall not exceed 0.023 lb/hr Phenol

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 18 of 40 CFR Part 60 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

i. Emission Limitation

Phenol emissions shall not exceed 0.1 ton/yr Phenol

Applicable Compliance Method:

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The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

F. Miscellaneous Requirements

1. This permit to install supercedes all requirements contained in PTI 04-424 for P001. All requirements of this permit to install are federally enforceable.

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PTI A

Modification Issued: 10/12/2006

Emissions Unit ID: P002

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
P002 - Kettle 2/ Phenol-formaldehyde resin manufacturing process with wet scrubber and electrically heated catalytic incinerator control	OAC rule 3745-31-05(A)(3) (PTI 04-1194 as issued on 11/10/99)	0.22 pound per hour and 0.96 ton per year volatile organic compounds (VOC). Visible emissions from the catalytic incinerator stack shall not exceed 0% opacity, as a 6-minute average. 0.137 pound per hour and 0.6 ton per year formaldehyde emissions; 0.023 pound per hour and 0.1 ton per year methanol emissions; and 0.023 pound per hour and 0.1 ton per year phenol emissions. See sections A.2.a. and A.2.b

2. Additional Terms and Conditions

- 2.a** The permittee shall vent emissions to a catalytic incinerator that is designed and operated to:
- i. reduce emissions of total organic compounds (less methane & ethane) with an efficiency of at least 98 % by weight.

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- ii. emit VOC at a concentration less than 20 parts per million by volume, dry basis.

2.b Fugitive emissions from equipment leaks are included in emissions unit P801.

B. Operational Restrictions

1. The average temperature of the exhaust gases immediately before the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance. The average temperature difference across the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 80 percent of the average temperature difference during the most recent emission test that demonstrated the emissions unit was in compliance.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain continuous temperature monitors and recorder(s) which measure and record(s) the temperature immediately upstream and downstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitors(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

- a. All 3-hour blocks of time (when the emissions unit was in operation) during which the average temperature of the exhaust gases immediately before the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
- b. All 3-hour blocks of time (when the emissions unit was in operation) during which the average temperature difference across the catalyst bed was less than 80 percent of the average temperature difference during the most recent emission test that demonstrated the emissions unit was in compliance.
- c. A log of the downtime for the capture (collection) system, control device, and

monitoring equipment, when the associated emissions unit was in operation.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all 3-hour blocks of time when the emissions unit was in operation during which the average temperature of the exhaust gases immediately before the catalyst bed or the average temperature difference across the catalyst bed does not comply with the temperature limitations specified above.
2. The permittee shall submit written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions.
3. The permittee shall submit to the City of Toledo, Environmental Services quarterly summaries of these records. These quarterly reports shall be submitted by April 30, July 31, October 31 and January 31, and shall cover the records for the previous calendar quarter.

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:

- a. Emission Limitation:

Visible emissions from the stack shall not exceed 0% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods in 40 CFR, Part 60, Appendix A.

Dyne:

PTI A

Modification Issued: 10/12/2006

Emissions Unit ID: **P002**

b. Emission Limitation

VOC emissions shall not exceed 0.22 lb VOC/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 18 or 1 through 4 and 25A of 40 CFR Part 60 Appendix A, as appropriate, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

c. Emission Limitation

VOC emissions shall not exceed 0.96 ton/yr VOC.

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

d. Emission Limitation

Formaldehyde emissions shall not exceed 0.137 lb Formaldehyde/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 18 of 40 CFR Part 60 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

e. Emission Limitation

Formaldehyde emissions shall not exceed 0.6 ton/yr Formaldehyde

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

f. Emission Limitation

Methanol emissions shall not exceed 0.023 lb Methanol/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 308 of 40 CFR Part 63 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

g. Emission Limitation

Methanol emissions shall not exceed 0.1 ton/yr Methanol

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

h. Emission Limitation

Phenol emissions shall not exceed 0.023 lb/hr Phenol

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 18 of 40 CFR Part 60 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

i. Emission Limitation

Phenol emissions shall not exceed 0.1 ton/yr Phenol

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

F. Miscellaneous Requirements

Dyne:

PTI A

Modification Issued: 10/12/2006

Emissions Unit ID: **P002**

1. The permit to install supercedes all requirements contained in PTI 04-424 for P002. All requirements of this permit to install are federally enforceable.

Dyne

PTI A

Modification Issued: 10/12/2006

Emissions Unit ID: P003

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P003 - Formaldehyde manufacturing plant with electrically heated catalytic incinerator control	OAC rule 3745-31-05(A)(3) (PTI 04-424 as issued on 3/9/1988)	40 CFR Part 60, Subpart III 40 CFR Part 60, Subpart VV
	OAC rule 3745-21-09(DD)	
	OAC rule 3745-21-09(EE)	

Dyne:**PTI A****Modification Issued: 10/12/2006**Emissions Unit ID: **P003**

Applicable Emissions
Limitations/Control Measures

4.8 pounds per hour and 21.0 tons per year volatile organic compound (VOC) emissions.

11.0 pounds per hour and 48.2 tons per year Carbon Monoxide (CO) emissions.

Visible emissions from the catalytic incinerator stack shall not exceed 0% opacity, as a 6-minute average.

0.05 pound per hour and 0.22 ton per year formaldehyde emissions; and
0.035 pound per hour and 0.15 ton per year methanol emissions.

See section A.2.a. and A.2.e.

See section A.2.f.

See section A.2.c.

See section A.2.d.

See section A.2.a.

See section A.2.b.

2. Additional Terms and Conditions

2.a The permittee shall vent emissions to a catalytic incinerator that is designed and

operated to:

- i. reduce emissions of total organic compounds (less methane & ethane) with an efficiency of at least 98 % by weight; or
 - ii. emit VOC at a concentration less than 20 parts per million by volume, dry basis corrected to 3% oxygen, whichever is less stringent.
- 2.b** The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart VV.
Fugitive emissions from equipment leaks are included in P801.
- 2.c** The permittee shall comply with all applicable requirements of OAC rule 3745-21-09(DD)
Fugitive emission from equipment leaks are included in P801.
- 2.d** The requirements established pursuant to this rule are equivalent to or less stringent than the requirements of 40 CFR Part 60, Subpart III.
- 2.e** The requirements of this rule include compliance with OAC rules 3745-21-09(DD) and 3745-21-09(EE) and 40 CFR Part 60, Subparts VV and III.
- 2.f** These hourly and annual emission limitations were established by a one-time worst case HAP emissions calculation for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.

B. Operational Restrictions

1. The average temperature of the exhaust gases immediately before the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance. The average temperature difference across the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 80 percent of the average temperature difference during the most recent emission test that demonstrated the emissions unit was in compliance.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain continuous temperature monitors and recorder(s) which measure and record(s) the temperature immediately upstream and downstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitors and recorder(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
 - a. All 3-hour blocks of time (when the emissions unit was in operation) during which the average temperature of the exhaust gases immediately before the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
 - b. All 3-hour blocks of time (when the emissions unit was in operation) during which the average temperature difference across the catalyst bed was less than 80% of the average temperature difference during the most recent emission test that demonstrated the emissions unit was in compliance.
 - c. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall operate and maintain a flow indicator that provides a record of vent stream flow to the incinerator at least once every hour. The flow indicator shall be installed in the vent stream from each affected facility at a point closest to the inlet of each incinerator and before being joined with any other vent stream.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify all 3-hour blocks of time during which the average combustion temperature within the catalytic incinerator does not comply with the temperature limitations above.
2. The permittee shall submit written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions.
3. The permittee shall submit quarterly deviation reports that identify all periods during which the vent stream was diverted from the catalytic incinerator or has no flow rate.
4. The permittee shall submit to the City of Toledo, Environmental Services quarterly summaries of these records. These quarterly reports shall be submitted by April 30, July 31, October 31 and January 31, and shall cover the records for the previous calendar quarter.

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:
 - a. Emission Limitation:

Visible emissions from the stack shall not exceed 0% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in Appendix on Test Methods in 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation

VOC emissions shall not exceed 4.8 lbs VOC/hr

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Facility ID: 044801155

Emissions Unit ID: P003

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 18 or 1 through 4 and 25A of 40 CFR Part 60 Appendix A, as appropriate, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

c. Emission Limitation

VOC emissions shall not exceed 21.0 tons/yr VOC.

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

d. Emission Limitation

CO emissions shall not exceed 11.0 lbs CO/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 10 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Alternate, USEPA approved test methods may be used with prior written approval.

e. Emission Limitation

CO emissions shall not exceed 48.2 tons/yr CO

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

f. Emission Limitation

Formaldehyde emissions shall not exceed 0.05 lb Formaldehyde/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 18 of 40 CFR Part 60 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

g. Emission Limitation

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Dyne:

PTI A

Modification Issued: 10/12/2006

Emissions Unit ID: **P003**

Formaldehyde emissions shall not exceed 0.22 ton/yr Formaldehyde

Modification Issued: 10/12/2006

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

h. Emission Limitation

Methanol emissions shall not exceed 0.035 lb Methanol/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 308 of 40 CFR Part 63 Appendix A. Alternate, USEPA approved test methods may be used with prior written approval from Ohio EPA.

i. Emission Limitation

Methanol emissions shall not exceed 0.15 ton/yr Methanol

Applicable Compliance Method:

The annual emission limitation is based on the allowable hourly emission limitation multiplied by 8,760 hrs/yr divided by 2,000 lbs/ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

F. Miscellaneous Requirements

1. This permit to install supercedes all requirements contained in PTI 04-424 for P003. All requirements of this permit to install are federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P801 - Facility-wide fugitive equipment leaks	OAC rule 3745-31-05(A)(3) (PTI 04-424 as issued on 3/9/1988)	3.69 pounds per hour and 16.17 tons per year volatile organic compound (VOC) emissions.
	OAC rule 3745-21-09(DD)	See section A.2.a.
	OAC rule 3745-21-09(C)	See section A.2.b.
		1.52 pounds per hour and 6.67 tons per year formaldehyde emissions;
		1.56 pounds per hour and 6.83 tons per year methanol emissions; 0.61 pound per hour and 2.67 tons per year phenol emissions.
	40 CFR Part 60, Subpart VV	See section A.2.d.
		See section A.2.c.

2. Additional Terms and Conditions

- 2.a The requirements of this rule include compliance with the requirements of OAC rule 3745-21-09(DD) and 40 CFR Part 60, Subpart VV.
- 2.b The permittee shall comply with all applicable requirements of OAC rule 3745-21-09(DD).

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- 2.c** The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart VV. The provisions of this subpart apply to affected facilities in the synthetic organic chemicals manufacturing industry as defined under 40 CFR 60.481.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with the monitoring and recordkeeping requirements of OAC rule 3745-21-09(DD)(15).
2. The permittee shall comply with the monitoring and recordkeeping requirements of 40 CFR 60.487.

D. Reporting Requirements

1. The permittee shall comply with the reporting requirements of OAC rule 3745-21-09(DD)(15).
2. The permittee shall comply with the reporting requirements of 40 CFR 60.487.

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.

a. Emission Limitation:

Total VOC emissions from equipment leaks shall not exceed 3.69 pounds per hour

Applicable Compliance Method:

Compliance shall be determined through emission factor calculations by multiplying the average SOCMI emission factors from Table 2-1 of "Protocol for Equipment Leak Emission Estimates, EPA-453/R95-017" by the number of

components and multiplying by 2.2 pounds per kilogram. Alternative US EPA approved emission factors may be used if appropriate.

b. Emission Limitation:

VOC emissions from equipment leaks shall not exceed 16.17 tons per year

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly emission limitation (4.8 lbs/hr) by the maximum annual hours of operation (8,760 hrs/yr) and dividing by 2,000 pounds per ton. Therefore, compliance with the hourly emission limitation constitutes compliance with the annual emission limitation.

c. Emission Limitation:

1.52 pounds per hour formaldehyde emissions from equipment leaks

Applicable Compliance Method:

Compliance shall be demonstrated through emission factor calculations by multiplying the average SOCM1 emission factors from Table 2-1 of "Protocol for Equipment Leak Emission Estimates, EPA-453/R95-017" by the number of components, multiplying by 2.2 pounds per kilogram, and multiplying by the mass fraction of formaldehyde contained in the process material at each component. Alternative US EPA approved emission factors may be used if appropriate.

d. Emission Limitation:

6.67 tons per year of formaldehyde emissions from equipment leaks

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly emission limitation (1.52 lbs/hr) by the maximum annual hours of operation (8,760 hrs/yr) and dividing by 2,000 pounds per ton. Therefore, compliance with the hourly emission limitation constitutes compliance with the annual emission limitation.

e. Emission Limitation:

1.56 pounds per hour methanol emissions from equipment leaks

Applicable Compliance Method:

Compliance shall be demonstrated through emission factor calculations by multiplying the average SOCMI emission factors from Table 2-1 of "Protocol for Equipment Leak Emission Estimates, EPA-453/R95-017" by the number of components, multiplying by 2.2 pounds per kilogram, and multiplying by the mass fraction of methanol contained in the process material at each component. Alternative US EPA approved emission factors may be used if appropriate.

f. Emission Limitation:

6.83 tons per year of methanol emissions from equipment leaks

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly emission limitation (1.56 lbs/hr) by the maximum annual hours of operation (8,760 hrs/yr) and dividing by 2,000 pounds per ton. Therefore, compliance with the hourly emission limitation constitutes compliance with the annual emission limitation.

g. Emission Limitation:

0.61 pound per hour phenol emissions from equipment leaks

Applicable Compliance Method:

Compliance shall be demonstrated through emission factor calculations by multiplying the average SOCMI emission factors from Table 2-1 of "Protocol for Equipment Leak Emission Estimates, EPA-453/R95-017" by the number of components, multiplying by 2.2 pounds per kilogram, and multiplying by the mass fraction of phenol contained in the process material at each component. Alternative US EPA approved emission factors may be used if appropriate.

h. Emission Limitation:

2.67 tons per year of phenol emissions from equipment leaks

Applicable Compliance Method:

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The annual emission limitation was developed by multiplying the hourly emission limitation (0.61 lb/hr) by the maximum annual hours of operation (8,760 hrs/yr) and dividing by 2,000 pounds per ton. Therefore, compliance with the hourly emission limitation constitutes compliance with the annual emission limitation.

F. Miscellaneous Requirements

1. This permit to install supercedes all requirements contained in PTI 04-424 for P801. All requirements of this permit to install are federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
T063 - 23,000 gal. fixed roof tank; phenol formaldehyde resin with submerged fill and vented to an electrically heated catalytic incinerator	OAC rule 3745-31-05(A)(3) (PTI 04-424 as issued on 3/9/1988)	0.04 ton per year volatile organic compound (VOC) emissions.
		0.03 ton per year of formaldehyde emissions and 0.01 ton per year of phenol emissions.
		See sections A.2.a and A.2.b.
	40 CFR Part 60, Subpart Kb	See section C.1 and C.2.

2. Additional Terms and Conditions

- 2.a This emissions unit shall be equipped with a submerged fill pipe.
- 2.b This emissions unit shall be vented to a catalytic incinerator when the tank is venting vapors.

B. Operational Restrictions

1. The permittee shall operate and maintain the catalytic incinerator used to control the emissions unit for the control of VOC when the tank is venting vapors. The monitoring, recordkeeping and reporting requirements for the catalytic incinerator are contained in Part II under P001 and P002.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep readily accessible records showing the dimension of the storage vessel, an analysis showing the capacity of the storage vessel and the location of the fill pipe in relation to the bottom.
2. The record required by C.1 shall be kept for the life of the source.
3. The permittee shall maintain records of the material stored and the annual throughput of the tank in gallons.

D. Reporting Requirements

None

E. Testing Requirements

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

0.04 ton/yr VOC

Applicable Compliance Method:

Calculate the annual emissions using the Tanks 4.0(or equivalent) computer program. Reduce the calculated tons/yr emissions by the percent destruction efficiency of the catalytic incinerator as determined during the latest emissions test that demonstrated compliance for sources P001 and P002.
 - b. Emission Limitation

Formaldehyde emissions shall not exceed 0.03 ton/yr Formaldehyde

Applicable Compliance Method:

Calculate the annual emissions using the Tanks 4.0(or equivalent) computer program. Reduce the calculated tons/yr emissions by the percent destruction efficiency of the catalytic incinerator as determined during the latest emissions test that demonstrated compliance for sources P001 and P002.

Dyne:**PTI A****Modification Issued: 10/12/2006**Emissions Unit ID: **T063**

c. Emission Limitation

Phenol emissions shall not exceed 0.01 ton/yr Phenol

Applicable Compliance Method:

Calculate the annual emissions using the Tanks 4.0(or equivalent) computer program. Reduce the calculated tons/yr emissions by the percent destruction efficiency of the catalytic incinerator as determined during the latest emissions test that demonstrated compliance for source P001, P002.

F. Miscellaneous Requirements

1. This permit to install supercedes all requirements of PTI 04-1194 for T063. All requirements are this permit are federally enforceable.

Dyne
PTI A

Emissions Unit ID: T064

Modification Issued: 10/12/2006

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
T064 - 30,000 gal. fixed roof tank, T-502; phenol formaldehyde resin with submerged fill and vented to an electrically heated catalytic incinerator	OAC rule 3745-31-05(A)(3) (PTI 04-424 as issued on 3/9/1988) 40 CFR Part 60 Subpart Kb	0.06 ton per year volatile organic compound (VOC) emissions. 0.05 ton per year of formaldehyde emission and 0.01 ton per year of phenol emissions. See sections A.2.a and A.2.b. See section C.1 and C.2.

2. Additional Terms and Conditions

- 2.a This emissions unit shall be equipped with a submerged fill pipe.
- 2.b This emissions unit shall be vented to a catalytic incinerator when the tank is venting vapors.

B. Operational Restrictions

1. The permittee shall operate and maintain the catalytic incinerator used to control the emissions unit for the control of VOC when the tank is venting vapors. The monitoring, recordkeeping and reporting requirements for the catalytic incinerator are contained in Part II under P001 and P002.

C. Monitoring and/or Recordkeeping Requirements

Dyne**PTI A****Modification Issued: 10/12/2006**Emissions Unit ID: **T064**

1. The permittee shall keep readily accessible records showing the dimension of the storage vessel, an analysis showing the capacity of the storage vessel and the location of the fill pipe in relation to the bottom.
2. The record required by C.1 shall be kept for the life of the source.
3. The permittee shall maintain records of the material stored and the annual throughput of the tank in gallons.

D. Reporting Requirements

None

E. Testing Requirements

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

0.06 ton/yr VOC

Applicable Compliance Method:

Calculate the annual emissions using the Tanks 4.0(or equivalent) computer program. Reduce the calculated tons/yr emissions by the percent destruction efficiency of the catalytic incinerator as determined during the latest emissions test that demonstrated compliance for sources P001 and P002.
 - b. Emission Limitation

Formaldehyde emissions shall not exceed 0.05 ton/yr Formaldehyde

Applicable Compliance Method:

Calculate the annual emissions using the Tanks 4.0(or equivalent) computer program. Reduce the calculated tons/yr emissions by the percent destruction efficiency of the catalytic incinerator as determined during the latest emissions test that demonstrated compliance for sources P001 and P002.

c. Emission Limitation

Phenol emissions shall not exceed 0.01 ton/yr Phenol

Applicable Compliance Method:

Calculate the annual emissions using the Tanks 4.0(or equivalent) computer program. Reduce the calculated tons/yr emissions by the percent destruction efficiency of the catalytic incinerator as determined during the latest emissions test that demonstrated compliance for source P001 and P002.

F. Miscellaneous Requirements

1. This permit to install supercedes all requirements of PTI 04-1194 for T064. All requirements are this permit are federally enforceable.