State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
MONTGOMERY COUNTY

Street Address:
50 West Town Street, Suite 700
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 08-04842
Fac ID: 0857713000
DATE: 5/31/2007

Blackthorn, Inc.
Kayleigh Fischer
6113 Brookville-Salem Rd.
Clayton, OH 45315

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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

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

CC: **USEPA** **RAPCA**

FINAL PERMIT TO INSTALL 08-04842

Application Number:	08-04842
Facility ID:	0857713000
Permit Fee:	**$200**
Name of Facility:	Blackthorn, Inc.
Person to Contact:	Kayleigh Fischer
Address:	6113 Brookville-Salem Rd. Clayton, OH 45315

Location of proposed air contaminant source(s) [emissions unit(s)]:
6113 Brookville-Salem Rd.
Clayton, **Ohio**

Description of proposed emissions unit(s):
Chapter 31 modification replacing PTI 08-02738 issued 11/17/93 to increase emissions using updated emission factors.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit 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 emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install 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 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 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. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

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.

7. 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.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install 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.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

10. 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.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. 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.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) 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.

15. 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 this Permit to Install.

B. 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

Pollutant	Tons Per Year
organic compounds	7.3

Emissions Unit ID: **P001**

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.

Operations, Property, and/or Equipment - (P001) - fiberglass reinforced plastic molds and parts fabrication

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-21-07(G)(2)	The organic compound (OC) emissions from this emissions unit shall not exceed 8 lbs/hr and 40 lbs/day, including cleanup.
ORC 3704.03(T)(4)	See Sections A.2.a below.

2. Additional Terms and Conditions

2.a The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the organic compounds (OC) emissions from this air contaminant source since the uncontrolled potential to emit for OC is less than ten tons per year taking into account the federally enforceable rule limit of 40 pounds per day under OAC rule 3745-21-07(G)(2).

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the emissions unit:

   a. The company identification for each resin, gel coat and cleanup material employed.

   b. The total number of gallons of each resin, gel coat and clean up material employed.

   c. The organic compound content of each resin, gel coat and cleanup material

employed, in pounds per gallon.

d. The method of application for each resin and gel coat employed.

e. The organic compound (%HAP) content of each resin and gel coat employed, in percent by weight.

f. The total daily organic compound emissions from all resins, gel coat, and cleanup materials, in pounds per day (see calculation methodology in Section E.1.b.).

g. The total number of hours the emissions unit was in operation.

h. The average hourly organic compound emission rate, in pounds per hour [i.e., (g)/(h)].

2. The permittee shall collect and record the following information for the purpose of determining annual organic compound emissions:

a. The company identification for each resin, gel coat, and cleanup material employed.

b. The total number of gallons of each resin, gel coat, and cleanup material employed.

c. The organic compound content of each resin, gel coat, and cleanup material employed, in pounds per gallon.

d. The total annual organic compound emission rate for all resin, gel coat, and cleanup material employed, in tons per year, determined by the summing the total daily organic compound emissions from C.1.f above for the calendar year and dividing by 2000 lb/ton.

3. The permit to install for this emissions unit P001 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted

1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: styrene
TLV (mg/m3): 170.40
Maximum Hourly Emission Rate (lbs/hr): 8
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1775
MAGLC (ug/m3): 4057

The above described evaluation determined that the maximum ground level concentration for the new or modified source was less than 80% of the MAGLC. Per ORC 3704.03(F)(4)(b), the owner or operator shall submit an annual report that describes any changes to the emissions unit that affect the air toxic modeling. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

   a. An identification of each day during which the average hourly controlled organic

compound emissions from the resins, gel coat and cleanup materials exceeded 8 pounds per hour, and the actual average hourly controlled organic compound emissions for each such day.

b. An identification of each day during which the controlled organic compound emissions from the resins, gel coat, and cleanup materials exceeded 40 pounds per day, and the actual controlled organic compound emissions for each such day.

The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

2. The permittee shall also submit annual reports that specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year

3. The permittee shall submit annual reports that describe any changes to this emissions unit which affect the air toxic modeling. If no changes were made during the year, then a report shall be submitted stating that no changes were made. This report is due by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

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

   a. Emission Limitation -
   The organic compound (OC) emissions from this emissions unit shall not exceed 8 lbs/hr, including cleanup.

   Applicable Compliance Method -
   The hourly organic compound emission rate, in pounds per hour, shall be determined by monitoring and record keeping requirements of Section C.1.

   b. The organic compound (OC) emissions from this emissions unit shall not exceed 40 lbs/day, including cleanup.

   Applicable Compliance Method -
   Compliance shall be determined as follows:

   i. The daily usage rate for production resin (open molding operation, nonatomized mechanical application, nonvapor-suppressed resin), in pounds per day, recorded in Section C.1 shall be divided by 2000 pounds per ton. The usage rate of resin, in tons per day, shall then be multiplied by the emissions factor calculated using one of the following equations from 1.c.i in Table 1 of 40 CFR Part 63, Subpart WWWW:

      a) for production resin material with less than 33% organic HAP use
      EF = 0.107 x %HAP x 2000;

      b) for production resin material with 33% or more organic HAP use
      EF = [(0.157 x %HAP) - 0.0165] x 2000.

   ii. The daily usage rate for tooling resin (open molding operation, atomized mechanical application, nonvapor-suppressed resin), in pounds per day, recorded in Section C.1 shall be divided by 2000 pounds per ton. The usage rate of resin, in tons per day, shall then be multiplied by the emissions factor calculated using one of the following equations from 1.b.i in Table 1 of 40 CFR Part 63, Subpart WWWW:

      a) for tooling resin material with less than 33% organic HAP use

EF = 0.169 x %HAP x 2000;

b) for tooling resin material with 33% or more organic HAP use
EF = [(0.714 x %HAP) - 0.18] x 2000.

iii. The daily usage rate for gel coat (open molding operation, nonatomized spray gel coat application, nonvapor-suppressed gel coat), in pounds per day, recorded in Section C.1 shall be divided by 2000 pounds per ton. The usage rate of gel coat, in tons per day, shall then be multiplied by the emissions factor calculated using one of the following equations from 1.g in Table 1 of 40 CFR Part 63, Subpart WWWW:

a) for gel coat material with less than 19% organic HAP use
EF = (0.185 x %HAP x 2000);

b) for gel coat material with 19% or more organic HAP use
EF = 0 [(0.4506 x %HAP) – 0.0505] x 2000.

iv. The total daily usage of the cleanup material, gallons per day, recorded in Section C.1 , shall be multiplied by the maximum organic compound content of the cleanup material, in pounds per gallon.

v. The total daily organic compound emission rate (in pounds per day) shall be the sum of the results from b.i, b.ii, b.iii, and b.iv above.

F. Miscellaneous Requirements

This PTI represents an increase of 5.27 tons per year and supercedes PTI 08-2738 issued November 17, 1993.