

Ohio Environmental Protection Agency
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049

Application
or ID Number _____
Date Received _____
Check No. _____ Check ID No. _____
Check Date _____ Amount _____
Revenue ID No. _____

- DAPC
- DDAGW
- DHWM
- DSW
- DSIWM
- RTK
- DEFA
- TRI
- _____

GENERAL COVER SHEET

1. Facility Information

Core Place ID _____
Legal Name Zehrco-Giancola Composites Inc.
Alternate Name (dba) Zehrco Plastics
Street Address 1501 West 47th Street
City/State/Zip Ashtabula, OH 44004
Location _____
County Ashtabula

2. Owner Information

Owner Name Zehrco-Giancola Composites Inc.
Effective Date June 7, 2003
Mailing Address 5500 Washington Avenue
City/State/Zip Ashtabula, OH 44004
Phone Number (440) 998-5774
Billing Address 5500 Washington Avenue
City/State/Zip Ashtabula, OH 44004

3. Operator Information

Operator Name Zehrco-Giancola Composites Inc.
Effective Date June 7, 2003
Mailing Address 5500 Washington Avenue
City/State/Zip Ashtabula, OH 44004
Phone Number (440) 998-5774
Billing Address Same as above
City/State/Zip _____

4. Division/Program Specific Secondary ID Numbers (for existing facilities only)

DAPC	Facility ID	0204010265
DAPC	TRI ID	44004ZRHCP 1501W
DDAGW	PWS ID	
DHWM	RCRA ID	OHD 064098262
DSW	NPDES ID	
DSIWM	Facility ID	
RTK	RTK ID	
Other	()	

5. Supplemental Information

Primary SIC Code	3089
Primary NAICS Code	326199
D&B D-U-N-S No.	620222182
Lat./Long.	41° 52' 12" / 80° 46' 54"
Point Description	

Section I - General Permit To Install (PTI) Application Information

This section should be filled out for each permit to install (PTI) application. A PTI is required for all air contaminant sources (emissions units) installed or modified after 1/1/74. See the line by line PTI instructions for additional information.

1. State the reason(s) for the application.

- new installation (for which construction has not yet begun)
 - initial application for an air contaminant source already installed or under construction
 - modification to an existing air contaminant source/facility - List previous PTI number(s) for air contaminant sources included in this application, if applicable, and describe requested modification (attach an additional sheet, if necessary):
-

- reconstruction of an existing air contaminant source/facility. Please explain: _____
- startup of an air contaminant source/facility that has been shutdown for _____ years.
- other, please explain:

2. Please check the appropriate boxes below. If you check exempt/not subject, explain why.

- not affected subject to Subpart: _____
- exempt/not subject - explain below
- unknown

New Source Performance Standards (NSPS)

New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

- not affected subject to Subpart: _____
- exempt/not subject - explain below
- unknown

National Emission Standards for Hazardous Air Pollutants (NESHAPS)

National Emissions Standards for Hazardous Air Pollutants are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

- not affected subject to Subpart: 63 WWW
- exempt/not subject - explain below
- unknown

Maximum Achievable Control Technology (MACT)

The Maximum Achievable Control Technology standards are listed under 40 CFR 63 and OAC rule 3745-31-28.

- not affected subject to regulation
- unknown

Prevention of Significant Deterioration (PSD)

These rules are found under OAC rule 3745-31-10 through OAC rule 3745-31-20.

- not affected subject to regulation
- unknown

Non-Attainment New Source Review

These rules are found under OAC rule 3745-31-21 through OAC rule 3745-31-27.

Please describe any of the above applicable rules and/or exemptions. Identify whether they apply to the entire facility and/or to specific air contaminant sources included in this PTI application (attach additional page if necessary):

Section I - General Permit To Install (PTI) Application Information

MACT, Subpart WWWW for styrene emissions, applicable for the entire facility.

Section I - General Permit To Install (PTI) Application Information

3. Do you qualify for permit to install registration status as determined by Ohio Administrative Code(OAC) rule 3745-31-05(E)(1) - (5)?

- yes
- no

If yes, are you requesting registration status per OAC rule 3745-31-05(E)?

- yes
- no

4. Is any information included in this application being claimed as a trade secret per Ohio Revised Code (ORC) 3704.08?

- yes (A "non-confidential" version must be submitted in order for this application to be deemed complete.)
- no

5. Person to contact for this application:

Name: Roger Wasson Title: Maintenance Manager

5500 Washington Avenue, Ashtabula, Ohio 44004

Address (Street, City/Township, State and Zip Code)

(440)998-5774 (440) 998-6074 rwasson@zehrco-giancola.com
Phone Fax E-mail

6. Authorized Signature: Under OAC rule 3745-31-04, this signature shall constitute personal affirmation that all statements or assertions of fact made in the application are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Tony Giancola

Authorized Signature (for facility)

Date

Title: Chief Operating Officer, Zehrco-Giancola Composites, Inc

OAC rule 3745-31-04(B) states that applications for permits to install shall be signed:

- (1) In the case of a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility.

Section I - General Permit To Install (PTI) Application Information

- (2) In the case of a partnership by a general partner.
- (3) In the case of sole proprietorship, by the proprietor, and
- (4) In the case of a municipal, state, federal or other governmental facility, by the principal executive officer, the ranking elected official, or other duly authorized employee.

Section II - Specific Air Contaminant Source Information

One copy of this section should be filled out for each air contaminant source covered by this PTI application. See the line by line PTI instructions for additional information.

1. Company identification (name for air contaminant source for which you are applying) Press #58 (Hull) 300 Ton for processing SMC & BMC in closed molds into FRP parts (P033)
2. List all equipment that are part of this air contaminant source: Various closed molds and molding compound as SMC or BMC
3. Air Contaminant Source Installation or Modification Schedule (must be completed regardless of date of installation or modification):
 When did/will you begin to install or modify the air contaminant source? (month/year) Projected 10/01/08
 When did/will you begin to operate the air contaminant source? (month/year) _____ **OR** after issuance of PTI √
4. Emissions Information: The following table requests information needed to determine the applicable requirements and the compliance status of this air contaminant source with those requirements. Suggestions for how to estimate emissions may be found in the instructions to the Emissions Activity Category (EAC) forms required with this application. If you need further assistance, contact your Ohio EPA permit representative.
 - If total potential emissions of HAPs or any Air Toxic is greater than 1 ton/yr, fill in the table for that (those) pollutant(s). For all other pollutants, if ‘Emissions before controls (max), lb/hr’ multiplied by 24 hours/day is greater than 10 lb/day, fill in the table for that pollutant.
 - If you have no add-on control equipment, ‘Emissions before controls’ will be the same as ‘Actual emissions’.
 - Annual emissions should be based on operating 8760 hr/yr unless you are requesting operating restrictions to limit emissions in line # 8 or have described inherent limitations below.
 - If you use units other than lb/hr or ton/yr, specify the units used (e.g., gr/dscf, lb/ton charged, lb/MMBtu, ton/12-months).
 - Requested Allowable (ton/yr) is often equivalent to Potential to Emit (PTE) as defined in OAC rule 3745-31-01(HHH) and OAC rule 3745-77-01(BB).

Pollutant	Emissions before controls (max) (lb/hr)	Actual emissions (lb/hr)	Actual emissions (ton/year)	Requested Allowable (lb/hr)	Requested Allowable (ton/year)
All Emissions as Styrene					
Particulate emissions (PE) (formerly particulate matter, PM)					
PM ₁₀ (PM < 10 microns in diameter)					
Sulfur dioxide (SO ₂)					
Nitrogen oxides (NO _x)					
Carbon monoxide (CO)					
Organic compounds (OC)	0.36	0.36	0.468	2.0	2.6
Volatile organic compounds (VOC)	0.36	0.36	0.468	2.0	2.6
Total HAPs	0.36	0.36	0.468	2.0	2.6
Highest single HAP:	0.36	0.36	0.468	2.0	2.6
Air Toxics (see instructions):					

Provide your calculations as an attachment and explain how all process variables and emission factors were selected. Note the emissions factor(s) employed and document the origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc. **Emissions as styrene based on 18% HAP content X 2% emission factor from AP-42** See attachment

Section II - Specific Air Contaminant Source Information

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5. **Does this air contaminant source employ emissions control equipment? NO. Requires Work Practices Only**

Yes - fill out the applicable information below.

No - proceed to item # 6.

Note: Pollutant abbreviations used below: Particulates = PE; Organic compounds = OC; Sulfur dioxide = SO₂; Nitrogen oxides = NO_x; Carbon monoxide = CO

Cyclone/Multiclone

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Type: ° Cyclone ° Multiclone ° Rotoclone ° Other _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Fabric Filter/Baghouse

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Operating pressure drop range (inches of water): Minimum: _____ Maximum: _____
Pressure type: ° Negative pressure ° Positive pressure
Fabric cleaning mechanism: ° Reverse air ° Pulse jet ° Shaker ° Other _____
 Lime injection or fabric coating agent used: Type: _____ Feed rate: _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Wet Scrubber

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Type: ° Spray chamber ° Packed bed ° Impingement ° Venturi ° Other _____
Operating pressure drop range (inches of water): Minimum: _____ Maximum: _____
pH range for scrubbing liquid: Minimum: _____ Maximum: _____
Scrubbing liquid flow rate (gal/min): _____
Is scrubber liquid recirculated? ° Yes ° No
Water supply pressure (psig): _____ NOTE: This item for spray chambers only.
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Section II - Specific Air Contaminant Source Information

Electrostatic Precipitator

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Type: ° Plate-wire ° Flat-plate ° Tubular ° Wet ° Other _____
Number of operating fields: _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Concentrator

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design regeneration cycle time (minutes): _____
Minimum desorption air stream temperature (°F): _____
Rotational rate (revolutions/hour): _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Catalytic Incinerator

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Minimum inlet gas temperature (°F): _____
Combustion chamber residence time (seconds): _____
Minimum temperature difference (°F) across catalyst during air contaminant source operation: _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Thermal Incinerator/Thermal Oxidizer

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Minimum operating temperature (°F) and location: _____ (See line by line instructions.)
Combustion chamber residence time (seconds): _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Flare

Manufacturer: _____ Year installed: _____

Section II - Specific Air Contaminant Source Information

What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Type: ° Enclosed ° Elevated (open)
Ignition device: ° Electric arc ° Pilot flame
Flame presence sensor: ° Yes ° No
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Condenser

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Type: ° Indirect contact ° Direct contact
Maximum exhaust gas temperature (°F) during air contaminant source operation: _____
Coolant type: _____
Design coolant temperature (°F): Minimum _____ Maximum _____
Design coolant flow rate (gpm): _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Carbon Adsorber

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Type: ° On-site regenerative ° Disposable
Maximum design outlet organic compound concentration (ppmv): _____
Carbon replacement frequency or regeneration cycle time (specify units): _____
Maximum temperature of the carbon bed, after regeneration (including any cooling cycle): _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Dry Scrubber

Manufacturer: _____ Year installed: _____
What do you call this control equipment: _____
Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
Estimated capture efficiency (%): _____ Basis for efficiency: _____
Design control efficiency (%): _____ Basis for efficiency: _____
Reagent(s) used: Type: _____ Injection rate(s): _____
Operating pressure drop range (inches of water): Minimum: _____ Maximum: _____
 This is the only control equipment on this air contaminant source
If no, this control equipment is: ° Primary ° Secondary ° Parallel
List any other air contaminant sources that are also vented to this control equipment: _____

Section II - Specific Air Contaminant Source Information

Paint booth filter

Type: Paper Fiberglass Water curtain Other _____
 Design control efficiency (%): _____ Basis for efficiency: _____

Other, describe _____

Manufacturer: _____ Year installed: _____
 What do you call this control equipment: _____
 Pollutant(s) controlled: PE OC SO₂ NO_x CO Other _____
 Estimated capture efficiency (%): _____ Basis for efficiency: _____
 Design control efficiency (%): _____ Basis for efficiency: _____
 This is the only control equipment on this air contaminant source
 If no, this control equipment is: ° Primary ° Secondary ° Parallel
 List any other air contaminant sources that are also vented to this control equipment: _____

6. Attach a Process or Activity Flow Diagram to this application for each air contaminant source included in the application. The diagram should indicate their relationships to one another. See the line by line PTI instructions for additional information. SEE ATTACHMENT 2

7. Emissions egress point(s) information: PTIs which allow total emissions in excess of the thresholds listed below will be subject to an air quality modeling analysis. This analysis is to assure that the impact from the requested project will not exceed Ohio's Acceptable Incremental Impacts for criteria pollutants and/or Maximum Allowable Ground Level Concentrations (MAGLC) for air toxics. Permit requests that would have unacceptable impacts can not be approved as proposed. See the line by line PTI instructions for additional information. MAGLC previous determination for group permits

Complete the tables below if the requested allowable annual emission rate for this PTI exceeds any of the following:

- Particulate Matter (PM10): 10 tons per year
- Sulfur Dioxide (SO₂): 25 tons per year
- Nitrogen Oxides (NO_x): 25 tons per year
- Carbon Monoxide (CO): 100 tons per year
- Air Toxic: 1 ton per year. An air toxic is any air pollutant for which the American Council of Governmental Industrial Hygienists (ACGIH) has established a Threshold Limit Value (TLV).

Complete Table 7-A below for each stack emissions egress point. An egress point is a point at which emissions from an air contaminant source are released into the ambient (outside) air. List each individual egress point on a separate line.

Table 7-A, Stack Egress Point Information						
Company Name or ID for the Egress Point (examples: Stack A; Boiler Stack; etc.)	Type Code*	Stack Egress Point Shape and Dimensions (in)(examples: round 10 inch ID; rectangular 14 X 16 inches; etc.)	Stack Egress Point Height from the Ground (ft)	Stack Temp. at Max. Capacity (F)	Stack Flow Rate at Max. Capacity (ACFM)	Minimum Distance to the Property Line (ft)

Section II - Specific Air Contaminant Source Information

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*Type codes for stack egress points:

- A. vertical stack (unobstructed): There are no obstructions to upward flow in or on the stack such as a rain cap.
- B. vertical stack (obstructed): There are obstructions to the upward flow, such as a rain cap, which prevents or inhibits the air flow in a vertical direction.
- C. non-vertical stack: The stack directs the air flow in a direction which is not directly upward.

Complete Table 7-B below for each fugitive emissions egress point. List each individual egress point on a separate line. Refer to the description of the fugitive egress point type codes below the table for use in completing the type code column of the table. For air contaminant sources like roadways and storage piles, only the first 5 columns need to be completed. For an air contaminant source with multiple fugitive emissions egress points, include only the primary egress points.

Section II - Specific Air Contaminant Source Information

Table 7-B, Fugitive Egress Point Information					
Company ID for the Egress Point (examples; Garage Door B, Building C; Roof Monitor; etc.)	Type Code*	Egress Point Description (examples: garage door, 12 X 30 feet, west wall; outside gravel storage piles; etc.)	Fugitive Egress Point Height from the Ground (ft)	Minimum Distance to the Property Line (ft)	Exit Gas Temp. (F)
Roof Vent	E	Roof Heat & Ambient Temperature Vent	28	120	50

*Type codes for fugitive egress point:

- D. door or window
- E. other opening in the building without a duct
- F. no stack and no building enclosing the air contaminant source (e.g., roadways)

Complete Table 7-C below for each Stack Egress Point identified in Table 7-A above. In each case, use the dimensions of the largest nearby building, building segment or structure. List each individual egress point on a separate line. Use the same Company Name or ID for the Egress Point in Table 7-C that was used in Table 7-A. See the line by line PTI instructions for additional information.

Table 7-C, Egress Point Additional Information				Table 7-C, Continued			
Company ID or Name for the Egress Point	Building Height (ft)	Building Width (ft)	Building Length (ft)	Company ID or Name for the Egress Point	Building Height (ft)	Building Width (ft)	Building Length (ft)
None							

Section II - Specific Air Contaminant Source Information

8. Request for Federally Enforceable Limits

As part of this permit application, do you wish to propose voluntary restrictions to limit emissions in order to avoid specific requirements listed below, (i.e., are you requesting federally enforceable limits to obtain synthetic minor status)?

- yes
- no
- not sure - please contact me if this affects me

If yes, why are you requesting federally enforceable limits? Check all that apply.

- a. to avoid being a "major source" (see OAC rule 3745-77-01(W))
- b. to avoid being a "major MACT source" (see OAC rule 3745-31-01(QQ))
- c. to avoid being a "major modification" (see OAC rule 3745-31-01(RR))
- d. to avoid being a "major stationary source" (see OAC rule 3745-31-01(SS))
- e. to avoid an air dispersion modeling requirement (see Engineering Guide # 69)
- f. to avoid another requirement. Describe: _____

If you checked a., b. or d., please attach a facility-wide potential to emit (PTE) analysis (for each pollutant) and synthetic minor strategy to this application. (See line by line instructions for definition of PTE.) If you checked c., please attach a net emission change analysis to this application.

9. If this air contaminant source utilizes any continuous emissions monitoring equipment for indicating or demonstrating compliance, complete the following table. This does not include continuous parametric monitoring systems.

Company ID for Egress Point	Type of Monitor	Applicable performance specification (40 CFR 60, Appendix B)	Pollutant(s) Monitored
NONE			

10. Do you wish to permit this air contaminant source as a portable source, allowing relocation within the state in accordance with OAC rule 3745-31-03(A)(1)(p) or OAC rule 3745-31-05(F)?

- yes - Note: notification requirements in rules cited above must be followed.
- no

11. The appropriate Emissions Activity Category (EAC) form(s) must be completed and attached for each air contaminant source. At least one complete EAC form must be submitted for each air contaminant source for the application to be considered complete. Refer to the list attached to the PTI instructions. Forms 3100 attached

This is a current Title V facility.