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Facility Name: **Tartan Yachts/Fairport Marine Company**

Application Number: **02-2169**

Date: **July 15, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCE(S)

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Ohio 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

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approval constitutes a violation of Ohio Administrative Code (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 prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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.

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PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for 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.

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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Tartan Yachts/Fairport Marine Company** located in **Lake** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

| <u>Ohio EPA Source Number</u> | <u>Source Identification Description</u> | <u>BAT Determination</u> | <u>Applicable Federal & OAC Rules</u> | <u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u> |
|-------------------------------|--|--|---|--|
| P001 | Fiberglass reinforced plastic sailboat fabrication shop. Includes the use of gel-coat spray-up and polyester resin hand lay-up operations. | Limited use of styrenated gelcoats and resins to comply with the stated emission limits. Compliance with Ohio EPA's Air Toxics Policy. | 3745-31-05 3745-21-07 (G) | No more than 8.0 pounds/hour and 40.0 pounds/day of photochemically reactive organic compounds. 7.3 tons per year. |
| P002 | Woodworking shop for sailboat cabinet components. | Use of a cyclone filter bag collector as an air pollution control device. | 3745-31-05 | 0.03 grain/dscf and 0.77 pound/hour of PM/PM ₁₀ and 3.4 tons/year, based upon the 3,000 dscfm vented from the dust collector stack. Stack visible particulate emissions shall not exceed 10 |

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| <u>Ohio EPA Source Number</u> | <u>Source Identification Number</u> | <u>BAT Determination</u> | <u>Applicable Federal & OAC Rules</u> | <u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u> |
|-------------------------------|--|---|---|---|
| P002 Cont'd | | | | percent opacity at any time. |
| R001 | Spray painting of decorative striping on FRP sailboat hulls. | Compliance with stated emission limits. Compliance with Ohio EPA's Air Toxics Policy. | 3745-31-05 3745-21-07 (G) | No more than 8.0 pounds/hour and 40.0 pounds/day of photochemically reactive organic compounds. 7.3 tons per year. |

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

| <u>Pollutant</u> | <u>Tons/Year</u> |
|-------------------------------------|------------------|
| Organic Compounds | 14.6 |
| Particulate Matter/PM ₁₀ | 3.4 |

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, OH 44087.**

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WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, OH 44087.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

I. P001 - FRP Sailboat Fabrication Shop

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A. Monitoring and Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the FRP sailboat fabrication shop operation:
 - a. the company identification for each gelcoat and polyester resin employed;
 - b. the number of pounds of each employed gelcoat and polyester resin;
 - c. the organic compound (styrene) content of each gelcoat and polyester resin, in percent by weight;
 - d. the total organic compound emission (styrene) emission rate for all gelcoats and polyester resins, in pounds per day;
 - e. the total number of hours the emissions unit was in operation; and,
 - f. the average hourly organic compound (styrene) emission rate for all gelcoats and polyester resins, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the gelcoat and polyester resin as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

B. Reporting Requirements

1. The permittee shall submit semi-annual deviation (excursion) reports which include the following

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information:

- a. an identification of each day during which the average hourly organic compound emissions from the gelcoats and polyester resins exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and,
 - b. an identification of each day during which the organic compound emissions from the gelcoats and polyester resins exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall also submit annual reports which 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.

C. Testing Requirements

1. Compliance with the emission limitations listed above shall be determined in accordance with the following methods:
 - a. the total organic compound emission rate shall be determined by multiplying the weight of gelcoats and polyester resins employed per day by the following emission factors, both of which assume 45 percent, by weight, styrene content of all gelcoats and resins:
 - i. gelcoats 27.1 percent by weight of "neat" gelcoat employed, assumes uncontrolled spray;
 - ii. polyester resins 7.6 percent by weight of "neat" resin employed, assumes use of non-vapor suppressed resins in manual lay up.

These emission factors were taken from Table 2.16 - Emission factors for the CFA Emission Models of the "CFA Emission Models for the Reinforced Plastic Industries"

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study published on February 28, 1998. If the styrene content or the conditions under which gelcoats and polyester resins are employed change, then the permittee shall use the appropriate emission factors in the aforementioned Table 2.16.

Formulation data or USEPA Method 24 shall be used to determine the organic compound (styrene) contents of the gelcoats and polyester resins.

II. P002 - Woodworking Shop for Sailboat Cabinets

A. Monitoring and Recordkeeping Requirements

1. None.

B. Reporting Requirements

1. None.

C. Testing Requirements

1. None.

III. R001 - Spray Painting of Decorative Stripes on Sailboat Hulls

A. Monitoring and Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:

a. the company identification for each coating and photochemically reactive cleanup material employed;

b. the number of gallons of each coating and photochemically reactive cleanup material employed;

c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;

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- d. the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day;
- e. the total number of hours the emissions unit was in operation; and,
- f. the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

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 nonphotochemically reactive cleanup material employed;
 - b. the number of gallons of each nonphotochemically reactive cleanup material employed;
 - c. the organic compound content of each nonphotochemically reactive cleanup material in pounds per gallon; and,
 - d. the total organic compound emission rate for all nonphotochemically reactive cleanup materials, in pounds.

B. Reporting Requirements

1. The permittee shall submit semi-annual deviation (excursion) reports which include the following

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information:

- a. an identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and,
 - b. an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall also submit annual reports which 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.

C. Testing Requirements

1. Compliance with the emission limitations listed above shall be determined in accordance with the following methods:
 - a. daily recordkeeping of coating usage, organic compound content of each coating, operating hours, and the hourly and daily emission rates shall be maintained. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings.