TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

Century Boats
40047 County Road 54 East

Facility ID No. 1010518

PROJECT

Project No. 1010518-001-AC
Application for Minor Air Construction Permit
Project Name: Fiberglass Boat Manufacturing

COUNTY

Pasco County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Management
Southwest District Office
Temple Terrace, Florida 33637-0926

January 28, 2014

Prepared by Richard Spaulding, PE

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Facility Description:

The existing facility manufactures fiberglass boats. Boats of various sizes are assembled at the facility on an individual basis depending on demand. Fugitive styrene emissions throughout the boat production floor including application stations and curing processes discharge to the atmosphere through bay doors and five industrial ventilation fans (approximately 56” X 56”, 10,000 cfm each) located along the west wall of the production area. Dust generated in cutting, drilling and grinding operations is captured by an industrial dust collector located inside the building with no external discharge.

II. Project Description:

A. Applicant:

Bryan Lucius, President
Century Boats
40047 County Road 54 East
Zephyrhills, FL 33540

B. Professional Engineer:

Dean H. Myers, PE
General Environmental Engineering, Inc.
1717 John Arthur Way
Lakeland, FL 33801

C. Project Location:
40047 County Road 54 East
Zephyrhills, FL 33540

SITE LOCATION
Richland
Vitis
Tucker Lake
Lumberton
Pretty Pond
Trailer Park
Cem
Claypit
Tucker Cem
HIGHWAY
ALLEN ROAD
PROVIDENCE 14 MI.
LAKELAND 22 MI.
3.3 MI. TO U.S. 98
T. 25 S.
T. 26 S.
R. 21 E.
R. 22 E.
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1988
(SOCRUM)
4540 II NE
1 MILE
ROAD CLASSIFICATION
Heavy-duty
Light-duty
Medium-duty
Unimproved dirt
U. S. Route
State Route
FLORIDA
QUADRANGLE LOCATION
AREA MAP
DADE CITY, FLA.
28082-C2-TF-024
1960
PHOTOREVISED 1988
DMA 4540 I SW—SERIES V847
Revisions shown in purple compiled from aerial photographs taken 1984 and other sources. This information not field checked. Map edited 1988
DOCUMENT ID: A

NORTH
PAVED ACCESS
BAY DOORS
1ST. FLOOR
BOAT PRODUCTION AREA
GEL-COAT GUN
FIBERGLASS CHOPPER GUNS
VENTILATED FINISH ROOM
STORAGE ROOM
(5) 56" VENTILATION FANS
FRONT OFFICE
ENTRANCE
COUNTY ROAD 54 EAST
DOCUMENT ID: B
GENERAL ENVIRONMENTAL ENGINEERING, INC.
205 WEST PALMETTO ST.
LAKELAND, FL 33815
CENTURY BOATS
40047 C.R.54 EAST, ZEPHYRHILLS
FACILITY PLOT PLAN
SHEET
B

PROCESS FLOW DIAGRAM
Century Boats Fabrication
To atmosphere through bay door openings and exhaust fans on two sides of building (VOC, HAP)
Boat or Boat Mold
Chopper Gun
Resin & Fiberglass Application (Mechanical Non-Atomized)
Hand Lay-Up
Fiberglass (Manual)
Gel Coat
Surface Coating Application (Mechanical High Volume Non-Atomized)
Resin
Catalyst
Resin
Catalyst
Gel Coat
Catalyst
Century Boat Fabrication Building
Note: The Boat production process is a non-continuous process. Unit operations shown are only meant to capture the general nature of operations. Some process steps are repeated in the fabrication of any boats produced.
DOCUMENT ID:C

D. Project Summary:

Initial air construction permit for the operation of an existing fiberglass boat manufacturing operation, as further described in the permit.

E. Application Information:

Application Received on: 12/16/2013
Additional Information Requested on: 12/20/2013
Additional Information Received on: 1/24/2014, 01/31/2014 & 02/04/2014
Application Complete on: 02/04/2014

III. Applicable State and Federal Regulations

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	**Y/N**	**Comments**
Rule 62-210.300, F.A.C. – Permits Required	Y	subject to general permitting requirements
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	facility is not a PSD major source
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	grinding and cutting could be a source of unconfined particulate matter emissions
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	resin/gelcoat operations are a source of VOC and odors
Rule 62-296.401-418, F.A.C. - Stationary Source Emission Standards	N	there is no applicable source category
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Pasco County is not an air quality maintenance area for ozone
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	there is no applicable source category. This is a new source, therefore not subject to PM RACT rule
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	N	there is no applicable source category
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	there is no applicable source category
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS –40 CFR 63)	N	EU No. 001 is not subject to 40 CFR 63, Subpart VVVV as it is not a major source
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	N	facility is a synthetic non-Title V source

Subject to:	Y/N	Comments
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	N	Testing is not required. Compliance is demonstrated via recordkeeping.

IV. Summary of Emissions

Pollutant	**EU No. and brief description**	**Potential Emissions** (lbs/hr., tpy, lbs/ton, etc., as applicable)	**Allowable Emissions** lbs/hr., tpy, lbs/ton, opacity, etc.) *(if applicable)*
VOC	001	8.0 ton/year	8.0 ton/year
	Total	**8.0**	**8.0**
Total HAP	001	8.0 ton/yr	8.0 ton/year
	Total	**8.0**	**8.0**
Styrene	001	7.0 ton/yr	7.0 ton/year
MMA		1.0 ton/yr	1.0 ton/year
Dimethyl Phthalate		1.0 ton/yr	1.0 ton/year
Toluene		1.0 ton/yr	1.0 ton/year
Cobalt Compounds		1.0 ton/yr	1.0 ton/year
	Total	**8.0**	**8.0**
VE Limitation			
VE	001		None

V. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VI. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Southwest District 13051 North Telecom Parkway, Temple Terrace, Florida 33637-7600.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).