

12-19-95

TECHNICAL EVALUATION AND DETERMINATION

Name and Location:

Sea Ray Boats, Inc  
Merritt Island Facility  
Merritt Island, FL 32953

John Cronkhite  
Executive Vice-President

Schedule:

Received- November 30, 1995  
Complete- November 30, 1995  
Drafted - February 14, 1996

Description:

The applicant intends to obtain a construction permit to increase the boat production at the facility. The applicant wants a facility wide construction permit VOC cap for operational flexibility.

Increase in production which will cause an increase in emissions.  
Modification of exhaust systems to obtain compliance with Florida Ambient Reference Concentrations for HAPs. Modifications at Sykes Creek plant include construction of Assembly Bldg. and improvement of ventilation system in Lam. Bldg. Modifications at Merritt Island plant include improvement of lamination ventilation system. Modifications at PDE plant include improvement of lamination ventilation system.

Rule Applicability:

62-296.310 General Particulate  
62-296.320 General Pollutant

Merritt Island 5,000 hrs. Product Development & Engineering 5,000/yr.  
Hours: Sykes 4,000/yr (to avoid PSD increment)?  
Emissions Summary:

	lb/hr	ton/yr
VOC OLD		196
REQUESTED		426
CHANGE	230 tons/yr	
NET PSD per DARM		

Sykes Creek Plant consists of lamination building, fabrication and warehouse building, bottom paint building, resin storage building and proposed assembly building.

1. Description :

Cyclone - Dust Collector for Wood Shop  
(existing, Joe Hills Custom System, see Exhibit "E")

Dust Collection for grinding operation  
(proposed system, see Exhibit "E")

Merritt Island Plant consists of Office Building, Fabrication Building, Assembly Building, and Lamination Building.

1. Description :

Cyclone - Dust Collector for Wood Shop  
(existing Pneumafil 8.5 straight fire w/Baghouse, see Exhibit "E")

Dust collection system for grinding operation  
(existing DustControl system; proposed system, see Exhibit "E")

Product Development and Engineering (PD & E) consists of the Lamination Building

1. Description :

Dust Collection for Grinding Operation  
(existing, DustControl, see Exhibit "E")

Cyclone - Dust Collector for Small Parts/Wood Shop  
(existing, Torit Dust Collector, see Exhibit "E")

Air Toxic Analysis:

The applicant modelled the release of HAPs using ISCST and each fan location at the facility. Also used was Building Profile Input Program (BPID) for the fans which are below Good Engineering Practice Height.

For Styrene, the <sup>Lstack</sup> 24 hour maximum groundlevel concentration was 493 ug/m<sup>3</sup> which is below the allowable of 511 ug/m<sup>3</sup>.  
Therefore the Air Toxic Policy is satisfied.

Conclusion:

Based upon the application, the department has been provided reasonable assurance the source can be operated in compliance with applicable air pollution rules and regulations, provided the source is operated as specified in the application and permit conditions are met.

Alan Zahm  
Alan D. Zahm, PE

19 Dec '95  
Date