



**GENERAL MECHANICS**  
*Consulting Engineers*  
Email: [Dr.Beladi@worldnet.att.net](mailto:Dr.Beladi@worldnet.att.net)

**RECEIVED**

MAY 09 2002

BUREAU OF AIR REGULATION

*4022 South Cypress Drive, Pompano Beach, Florida 33069, USA Telephone (954) 648-9144, Facsimile (954) 984-9053*

**From: Dr. S. E. Beladi, PE**

**May 7, 2002**

**TO: Ms. Cindy Phillips, P.E.**  
**Florida Department of Planning and Environmental Protection**  
**Bureau of Air Regulation**  
**MS 5505**  
**2600 Blair Stone Road**  
**Tallahassee, Florida 32399-2400**


**Subject: 112(j) notification Information**  
**C & C Marble, Inc**  
**2801 Northwest 55<sup>th</sup> Court**  
**Fort Lauderdale, Florida 33309**

**Dear Ms. Phillips:**

Pursuant to our phone conversation and e-mail communications, Attached please find copy of the information you requested in your April 05, 2002 letter. I hope the information will help you in the outcome of publications of USEPA report and CAA requirements. A copy of the same attachment has been forwarded to Mr. Doug Neeley, USEPA Region IV.

As mentioned previously, the applications for Title V have been submitted to Broward County Department of Natural Resource Protection, Air Quality Division. Please do not hesitate to contact me either by phone or e-mail at the above addresses if any additional information deems necessary.

Sincerely,

  
Dr. S. E. Beladi, PE

Director

**Attached:**

- 1. Information Sheet regarding C&C marble.**
- 2. Table of Emission Sources.**

## Information Requirement of Section 112(j), CAA.

a. Facility Name: C&C Marble, Inc.  
b. Physical Location: 2801 Northwest 55<sup>th</sup> Court, Bay #4  
Fort Lauderdale, Florida 33309

UTM Coordinates: Zone: 17      581.5KmE(East)      2897.1KmN (North)  
Latitude/Longitude:      26° 11'36"N      80° 11'00" W

c. The industry type could be considered as sub part of Reinforced Plastic Composites Production Facility. An industry could be further sub-classified as facilities that manufacturer composites using thermoset resins and/or gel coats that contain styrene as a cross-linked.

d. Facility is a manufacturing of Marble Casting Products, which manufactures Tubs, showers pans, vanities,.. from resin or gel coats base raw materials. The process is involved of casting of resins and gel coats containing Styrene or Styrene Monomers as crosses links in the manufacturing process. The facility could be considered subjected to the requirements of NESHAP and MACT criteria may be applied.

e. The Emission Units: The emission units at this facility is consisted of gel coat application spray booths with up-blast stacks and fugitive emissions that collectively considered as one source of HAP emission Units.

f. The emission Units and affected sources: are HAP and VOC at rate of 15.93 tons per year of HAP's and 12.56 tons per year of VOC's (as listed in the attached Table). The emission units affected by these requirements are listed in the table and mostly could be considered as Styrene (100-42-5) and Dimethyl Phthalate (131-11-3).

g. Contact Person:

Dr. S. E. Beladi, PE  
4022 South Cypress Drive  
Pompano Beach, Florida 33069  
(954) 648-9144  
(954) 984-9053 Facsimile  
Dr.Beladi@worldnet.att.net

Total VOC HAP Generation C&C 1999						
Hazardous Material	CAS Number	Type	Lbs per year	Lbs per year	tons/year	
<i>Styrene</i>	100-42-5	VOC		4638.6	2.32	
<i>Styrene Monomer</i>	100-42-5	VOC		3596.6	1.80	
<i>Methyl Methacrylate</i>	80-62-2	HAP	2847.3		1.42	
<i>MEK Peroxide</i>	1338-23-6	VOC		7133.3	3.57	
<i>Dimethyl Phthalate</i>	131-11-3	HAP	22079.2		11.04	
<i>Dimethyl Adipate</i>	627-93-0	VOC		2475.0	1.24	
<i>Dimethyl Glutarate</i>	1119-40-0	VOC		11550.0	5.78	
<i>Dimethyl Succintae</i>	106-65-0	VOC		2475.0	1.24	
<i>Toluene</i>	108-88-3	HAP	197.0		0.10	
<b>Total VOC</b>				<b>31868.4</b>	<b>15.93</b>	
<b>Total HAP</b>			<b>25123.5</b>		<b>12.56</b>	

Method of Calculations:

Styrene: total generation lbs/year X 0.02 Emission Factor. ( This factor is still valid in AP\_42)  
 Styrene Monomer: total generation lbs/year X 0.165 Emission Factor. ( This factor is still valid in AP\_42)  
 Other HAP or VOC : total generation lbs/year