

**Workgroup Recommendations and Other Potential Control Measures**  
**VOC Workgroup**

**VOC010 – Architectural and Industrial Maintenance Coatings**

Amend existing New Jersey Subchapter 23 architectural coatings regulations based on California Air Resources Board (CARB) changes to their Suggested Control Measure (SCM) and also to be consistent with other Ozone Transport Region (OTR) states.

**DESCRIPTION**

CARB is in the process of updating their 2000 SCM for Architectural Coatings this year. They will be using 2004 survey data as an important resource to update the SCM, but will not begin the formal SCM update process until the survey is completed. They anticipate bringing the SCM update to the Board in mid to late 2007. The existing volatile organic compound (VOC) limits in the New Jersey rules, the CARB SCM and in the California South Coast Air Quality Management District (SCAQMD) rules, for the categories anticipated to be updated, are shown below. The VOC limits chosen by CARB, the NJDEP and the OTC are still under evaluation and may not be the same as the SCAQMD rules.

<b>VOC Content Limits for Architectural Coatings</b>			
<b>Coating Category</b>	<b>VOC Content (grams VOC per liter)</b>		
	<b>CARB 2000 SCM</b>	<b>New Jersey Rules (OTC 2001 Model Rule)</b>	<b>SCAQMD Rules</b>
<b>Top Five Categories in Sales:</b>			
Flat Coatings	100	100	50
Non-flat Coatings	150	150	50
Primers, Sealers, and Undercoaters	200	200	100
Bituminous Roof Coatings	300	300	50
Industrial Maintenance Coatings	250	340	100
<b>Others:</b>			
Lacquers (including lacquer sanding sealers)	550	550	275
Sanding Sealers (other than lacquer sanding sealers)	350	350	275
Varnishes	350	350	275
Quick-Dry Enamels	250	250	50
Quick-Dry Primers, Sealers and Undercoaters	200	200	100
Stains	250	250	100
Waterproofing Sealers	250	250	100

**IMPLEMENTATION**

Manufacturers will have to reformulate products to meet new VOC limits or stop selling them in New Jersey, unless they are complying with the use of the small container exemption, or a variance.

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**COST**

See Cost Effectiveness

**EFFECTIVENESS**

For preliminary emission reduction estimates, the Ozone Transport Committee (OTC) split the difference between the SCAQMD rules and the existing OTC model rule VOC limits for most categories, except for the top five categories in sales, in which they went 75 percent of the way toward the SCAQMD limits. These calculations estimate a 6 percent reduction of the architectural coatings VOC inventory, beyond the current rule. This is approximately 4 tons per day reduction of VOC in New Jersey.

**COST EFFECTIVENESS**

SCAQMD estimated the overall cost-effectiveness for their 1999 Amendments to \$13,317 per ton of volatile organic compounds (VOC) reduced. For their December 5, 2003 amendments to Rule 1113, SCAQMD estimated the cost-effectiveness to be in the range of \$4,229 to \$11,405 per ton.

Cost of Compliance will be less for New Jersey, because some one-time research and reformulation costs incurred for products sold in California will not have to be incurred again for New Jersey.

**SOURCES**

OTC Control Measure Summary, March 29, 2006

South Coast Air Quality Management District, 2003 Air Quality Management Plan – Appendix IV-A District’s Stationary and Mobile Source Control Measures. August 1, 2003, Page IV-13.