

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Best Available Control Technology (BACT) Guideline

Source Category

Source:	<i>Lithographic or Offset Printing - Heatset</i>	Revision:	4
		Document #:	110.1.1
Class:	<i>All</i>	Date:	08/24/98

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	<p>1. Low VOC fountain solution ($\leq 6\%$ by vol.); and automatic blanket & roller wash w/ solvent capture & recycle; and cleanup solvents w/ ≤ 2.5 lb VOC/gal or VOC vapor pressure ≤ 5 mm Hg; and kerosene-like oil based inks. If cost-effective, capture and vent VOC to afterburner or carbon adsorption system w/ $\geq 98.5\%$ destruction/recovery device efficiency; or VOC outlet ≤ 10 ppmv^{a,b,T}</p> <p>2. Low VOC fountain solution ($\leq 8\%$ by vol.); and minimum possible VOC blanket wash & roller & tray washes; and cleanup solvents w/ ≤ 7.5 lb VOC/gal and VOC vapor pressure ≤ 25 mm Hg or $\leq 30\%$ by vol. VOC; and kerosene-like oil based inks^{a,T}</p>	<p>1. Low VOC Coatings and Solvents; or BAAQMD Approved Collection System and Abatement Device^{a,b,T}</p> <p>2. Low VOC Coatings and Solvents^{a,T}</p>
NO_x	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
SO₂	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
CO	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
PM₁₀	<p>1. Oven venting to an afterburner (≥ 0.3 sec. retention time at $\geq 1400^{\circ}$F) w/ overall capture/ destruction efficiency $\geq 90\%$^a</p> <p>2. Compliance w/Reg. 6, Visible Emissions^a</p>	<p>1. BAAQMD Approved Design and Operation^a</p> <p>2. Good Operating Practice^a</p>

NPOC	<p>1. No or low NPOC solutions/washes and kerosene-like oil based inks, or approved abatement system, as for POC above^{a,b,T}</p> <p>2. Low NPOC solutions/washes and kerosene-like oil based inks as for POC above^{a,T}</p>	<p>1. Low or no NPOC Coatings and Solvents; or BAAQMD Approved Abatement System^{a,b,T}</p> <p>2. Low NPOC Coatings and Solvents^{a,T}</p>
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References

<p>a. BAAQMD</p> <p>b. For abatement devices, the following are acceptable; ≤ 10 ppmv at outlet; or $\geq 98.5\%$ destruction/recovery efficiency if inlet VOC ≥ 2000 ppmv; or $\geq 97\%$ efficiency if inlet VOC ≥ 200 to < 2000 ppmv; or $\geq 90\%$ efficiency if inlet VOC < 200 ppmv.</p> <p>T. TBACT</p>
