



PERMIT TO INSTALL EXEMPTION RECORD FOR LITHOGRAPHIC PRINTERS

This record is provided as a courtesy for printers by the Michigan Department of Environmental Quality (MDEQ), Environmental Science and Services Division, Clean Air Assistance Program, and is not required to be returned or submitted to the MDEQ.

Applicable Rule: Rule 290 of the Michigan Air Pollution Control Rules

NOTE: This record can only be used if all air emissions are noncarcinogenic VOCs.

Please print or type all information.

1. INSTRUCTIONS AND ASSUMPTIONS

These calculations are based on the following assumptions from the USEPA Control Techniques Guidelines for Offset Lithographic Printing:

Inks:	Heatset web ink = 40% VOC Nonheatset web ink = 30% VOC Nonheatset sheet ink = 25% VOC
	Web press ink usage = 10.3 lb/hr (heatset and nonheatset) Sheet press ink usage = 0.25 lb/hr
	Ink density = 8.33 lb/gal

Fountain solutions:	Dampening aid usage: Heatset web = 0.90 lb IPA/lb ink Nonheatset web = 0.53 lb IPA/lb ink Nonheatset sheet = 1.25 lb IPA/lb ink
	1 lb non-IPA VOC concentrate = 10 lb IPA
	Baseline non-IPA VOC in concentrate = 10% (0.84 lb VOC/gal concentrate)

Cleaning solutions:	Usage (all presses) = 0.33 lb/hr
	Baseline VOC content = 100%

Fill out this record each month. If the calculations result in less than 1,000 pounds per month emission, the press is exempt from obtaining a Permit to Install as required by Rule 201 of the Michigan Air Pollution Control Rules.

These calculations are only a guide to determine exemptions. If your emissions are close to the 1,000 pounds per month level, more detailed calculations should be performed using source specific information.

2. MONTHLY VOC EMISSION CALCULATION TABLE (complete 1 row for each printing press):

Month/Year _____

	A	B	C	D	E
Press Description	Press Width (in)	Number of Blankets	Monthly Operating Hours (hr/month)	Multiplying Factor Nonheatset sheet: 0.0088 Nonheatset web: 0.0142 Heatset web: 0.0979	Emissions (lb/month) [A x B x C x D] (Must be ≤ 1,000)