



Title V Operating Permit Program

Form EU503

Printing Operations: Emissions Unit Material Balance Summary

Facility name: [ ]

Permit Number: [ ]

1.	Emissions Unit name and ID number or label:			
2.	Description of operation:			
3.	Date installation/construction commenced:			
4.	Date installation/construction completed:			
5.	Products printed:			
6.	Waste disposal:	Quantity (tons/yr.):		
		VOC content (%):		
7.	Are there any control devices? If yes, enter the ID from Form Series CD300 and the capture, destruction, and overall efficiency.			

9. Dryer specifications:

Dryer ID				
Manufacturer				
Model number				
Fuel				
Heat input (Btu/hr.)				

State of Oregon Department of Environmental Quality

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10. Printing VOC Emissions:

**Formula example:** 250,000 gal/yr x 7.96 lbs/gal x (17.5/100) x [(1 - (75/100 x 96/100))] / 2000 lbs/ton = 47.36

Ink name	Annual Usage (gallons)	Density (lbs./gal)	VOC Weight (%)	Capture Efficiency (%)	Removal or Destruction Efficiency (%)	Overall Control efficiency (%)	VOC Emission (tons/yr.)
<b>Example: Offset Black Ink</b>	<b>250,000</b>	<b>7.96</b>	<b>17.5</b>	<b>75</b>	<b>96</b>	<b>72</b>	<b>47.36</b>

11. Cleanup Solvent VOC Emissions:

**Formula example:** 75 gal/yr x 6.447 lbs/gal x (98/100) / 2000lbs/ton = 0.24 tons/yr

Solvent	Annual Usage (Gallons)	Density (lbs./gal)	VOC (Weight %)	VOC Emissions (Tons/yr.)
<b>Example: Mineral Spirits 365</b>	<b>75</b>	<b>6.447</b>	<b>98</b>	<b>0.24</b>

12. Total VOC Emissions (tons/yr):	
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