

## Small Printing Facility PBR Qualifications

### Emission Limitations

- < 10 tons VOC per year\*
  - < 5 tons single HAP per year
  - < 10 tons combined HAPs per year
- \*3 tons VOC per year for letterpress and lithographic facilities located in Ashtabula, Geauga, Lake, Lorain, Medina, Portage or Summit Counties

### Note

**You can qualify for the PBR by either meeting the facility emission limits or by meeting the material use limits**

### Material Use Limitations

- 1,333 gallons of materials containing the same single HAP
- 2,267 gallons of materials containing any HAPs
- And meet the total annual use limits for your particular printing method (see table below)

Printing Method	Annual Material Use Limit
Heatset offset lithographic located in Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit Counties	5,400 pounds of ink, cleaning solvent and fountain solution additives combined
Heatset offset lithographic located in any county other than Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit Counties	20,000 pounds of ink, cleaning solvent and fountain solution additives combined
Non-heatset offset lithographic located in Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit Counties	768 gallons of cleaning solvent and fountain solution additives combined
Non-heatset offset lithographic located in any county other than Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit Counties	2,850 gallons of cleaning solvent and fountain solution additives combined
Letterpress located in Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit Counties	768 gallons solvent from inks, clean-up solutions and other solvents combined
Letterpress located in any county other than Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit Counties	2,850 gallons solvent from inks, clean-up solutions and other solvents combined
Water-based or Ultraviolet (UV) cured material flexographic printing	8,000 pounds water-based inks, coatings and adhesives combined
Solvent-based material flexographic	20,000 pounds solvents from inks, dilution solvents, coatings, cleaning solutions and adhesives combined
Digital	2,425 gallons solvent from inks, clean-up solutions and other solvents combined
Screen	2,850 gallons solvent from inks, clean-up solutions and other solvents combined
Any combination of screen, digital, flexographic, letterpress, non-heatset lithographic, or heatset lithographic	Use the most stringent use limitations for your method of printing

### Notes

VOC = volatile organic compound

HAP = hazardous air pollutant

Check your material safety data sheets or contact your supplier for VOC and HAP content information

If you have a combination of printing methods, either comply with the smallest (most stringent) usage limit or calculate your emissions and verify you comply with the emission limits

## Midsize Printing Facility PBR Qualifications

Emission Limitations
<ul style="list-style-type: none"> <li>▪ &lt; 25 tons VOC per year</li> <li>▪ &lt; 5 tons single HAP per year</li> <li>▪ &lt; 12.5 tons combined HAPs per year</li> </ul>

Note
<b style="color: #2e7d32;">You can qualify for the PBR by either meeting the facility emission limits or by meeting the material use limits</b>

Material Use Limitations
<ul style="list-style-type: none"> <li>▪ 1,333 gallons of materials containing the same single HAP</li> <li>▪ 3,333 gallons of materials containing any HAPs</li> <li>▪ And meet the total annual use limits for your particular printing method (see table below)</li> <li>▪ Meet cleanup solution requirements (see below)</li> </ul>

Printing Method	Annual Material Use Limit
All printing types	Use a cleanup solution that contains no more than 30% VOC by weight as-applied or has a VOC composite partial pressure of 10 mm HG or less at 20°C. Use of any cleanup solution that do not meet these conditions cannot exceed 110 gallons per year.
Heatset offset lithographic	50,000 pounds of ink, cleaning solvent and fountain solution additives combined and use fountain solutions that meet the following: <ul style="list-style-type: none"> <li>▪ &lt; 5% VOC by weight for a fountain solution if no alcohol is used</li> <li>▪ &lt;1.6 % VOC by weight for a fountain solution if alcohol is used</li> <li>▪ &lt;3% by weight for a fountain solution if alcohol is used and solution is refrigerated at 68°F or less</li> </ul>
Non-heatset offset lithographic	7,100 gallons of cleaning solvent and fountain solution additives combined and use fountain solutions that meet the following: <p>For non-heatset, sheetfed:</p> <ul style="list-style-type: none"> <li>▪ &lt; 5% VOC by weight for a fountain solution if no alcohol is used</li> <li>▪ &lt;5 % VOC by weight for a fountain solution if alcohol is used</li> <li>▪ &lt;8.5% by weight for a fountain solution if alcohol is used and solution is refrigerated at 68°F or less</li> </ul> <p>For non-heatset, web:</p> <ul style="list-style-type: none"> <li>▪ Alcohol use not allowed</li> <li>▪ &lt; 5% VOC by weight for a fountain solution if no alcohol is used</li> </ul>
Water-based or Ultraviolet (UV) cured material flexographic printing	200,000 pounds water-based inks, coatings and adhesives combined
Solvent-based material flexographic	50,000 pounds solvents from inks, dilution solvents, coatings, cleaning solutions and adhesives combined
Digital	6,000 gallons solvent from inks, clean-up solutions and other solvents combined
Screen or letterpress	7,100 gallons solvent from inks, clean-up solutions and other solvents combined
Any combination of screen, digital, flexographic, letterpress, non-heatset lithographic, or heatset lithographic	Use the most stringent use limitations for your method of printing

Notes
VOC = volatile organic compound
HAP = hazardous air pollutant
Check your material safety data sheets or contact your supplier for VOC and HAP content information
If you have a combination of printing methods, either comply with the smallest (most stringent) usage limit or calculate your emissions and verify you comply with the emission limits