

June 2004

## FACT SHEET For GRAPHIC ARTS OPERATIONS

This fact sheet has been written in order to advise facilities that have graphic arts operations of rule changes that may affect their operation. On April 8, 2004, the Placer County Board of Directors amended Rule 239, <u>Graphic Arts Operations</u>. The effective date for the new provisions is April 8, 2005 - 12 months from the date the amended Rule was adopted.

Rule 239, <u>Graphic Arts Operations</u>, regulates the volatile organic contact of products used in printing operations. The amendments to this rule include lower Volatile Organic Compounds (VOC) limits for adhesives and fountain solutions, a prohibition of sale of noncompliant materials and clarification of the recordkeeping requirements. The amended rule incorporates more detailed solvent cleaning requirements applicable to specific operations related to graphic arts operations and revises the current exemption levels and to expand rule applicability to screen printing operations.

Partial or complete exemptions are allowed in numerous cases, as listed in Section 104 of the rule. The exemption for contact cements has been retained and VOC limitations for aerosol adhesives have been added.

## The amended rule:

- Added VOC standards for materials used for surface cleanup.
- Expanded the rule applicability to include all screen printing operations.
- Lowered the rule applicability trigger level from 660 pounds of volatile organic compounds (VOC's)
  per month to 60 pounds per month for actual emissions, and 175 pounds per month for potential
  emissions and phase out the exemptions for proof presses and research and development
  operations.
- Lowered the VOC content for fountain solutions and adhesives and added an option to use fountain solutions with a higher VOC content if a refrigerated chiller is used.
- Added a limited exemption for aerosol adhesives.
- Expanded the list of cleaning solvents with their allowable VOC limits.
- Added a "Prohibition of Sale" prohibiting vendors from selling noncompliant graphic arts materials for use within the District.
- Added requirements for vendors to provide material safety data sheets to the end user.

## **EXEMPTIONS:**

A number of exemptions were also adopted including:

• Graphic arts operations which emit less than 660 pounds of VOC per calendar month including cleaning materials.

- Graphic arts operations with actual emissions of less than or equal to 60 pounds per calendar
  month of VOC from all graphic arts operations and cleaning materials; or a graphic arts operation
  that receives a permit that limits the potential to emit, pursuant to Rule 502, New Source Review,
  to less than or equal to 175 pounds of VOCs per calendar month from all graphic arts operations
  and cleaning materials.
- Proof Presses and/or Research and Test Development Operations are exempt until April 8, 2005
  if used exclusively for research, laboratory analysis or determination of product quality and
  commercial acceptance, such as proof presses or other proofing systems, provided that total VOC
  emissions from all such equipment do not exceed 300 pounds per calendar month per stationary
  source.
- Rule 219, Organic Solvents, shall not apply to Graphic Arts Operations.
- Business and Personal Printers shall not apply to business and personal printers such as ink jets, bubble jets, and laser jets.
- Prepress Operations shall not apply to prepress operations associated with printing plate making including film photo processors and plate photo processors.
- Aerosol Adhesives Screen Printing: The VOC content limits of this rule shall not apply to aerosol adhesives used by screen printing operations provided that the aerosol adhesives comply with the VOC limits for aerosol adhesives under Rule 235, <u>Adhesives</u> - Section 300.
- Aerosol Adhesives Graphic Arts Operations: This rule shall not apply to aerosol adhesives used by graphic arts operations provided, that the VOC emissions from the facility are less than 660 pounds per calendar month and the aerosol adhesives comply with the VOC limits for aerosol adhesives in Rule 235, <u>Adhesives</u>, Section 300.

## **RECORDKEEPING:**

Recordkeeping required, including recordkeeping required to demonstrate applicability of exemptions.

- Maintain a materials list of currently used and/or stored materials at the site, including the type by material category/code/manufacturer, actual VOC content as applied, VOC composite partial pressure for materials if applicable, the actual mixing ratio used, ink density in lbs/gallon, VOC content by weight in the aerosol adhesive for which it is used.
- <u>Monthly</u>: 1. Records of total applied volume in gallons or weight in pounds (weight allowed for ink only) for each material (including thinners, reducers, hardeners, retarders, catalysts, fountain solutions and cleaning materials).
  - 2. Records of total VOC emissions from all materials (including thinners, reducers, hardeners, retarders, and catalysts) used for each calendar month in pounds.
  - 3. Records of total applied volume for each material exceeding the VOC limits specified by name/code/manufacturer and material type.
  - 4. Records showing the percentage of Lithographic and Letter Press, Other Cleaning materials.
- <u>Daily</u> records must be kept, by those using emission control equipment, showing the applied volume in gallons or by weight in pounds (weight allowed for ink only), records required as part of the Operation and Maintenance Plan and records of testing.
- Any person who sells any material subject to this rule shall make available to the purchaser at the time of sale specific information outlined in the rule.

For further information, Rule 239, <u>Graphic Arts Operations</u> is available on the District's website at <u>www.placer.ca.gov/apcd</u> or feel free to contact District staff at 530-889-7130.