

# PRINTING OPERATIONS

## Air General Permit Example Registration Worksheet

The Florida Department of Environmental Protection (“Department” or “FDEP”) has established an air general permit under paragraph 62-210.310(4)(f), Florida Administrative Code (“F.A.C.”), for printing operations. An air general permit is an authorization by rule to construct or operate a specific type of air pollutant emitting facility. Use of such authorization by any individual facility does not require action by the Department. The terms and conditions of the air general permit are set forth in the rule, rather than in a separately issued air construction or air operation permit.

If you are the owner or operator of an eligible facility comprising one or more printing operations, you may register to use the air general permit under paragraph 62-210.310(4)(f), F.A.C., by following the general procedures and conditions given under subsections 62-210.310(2) and 62-210.310(3), F.A.C.

To register, you may use the Department’s new online Air General Permit Electronic Registration Submittal system (<http://www.dep.state.fl.us/air/emission/agpers.htm>), or complete this registration worksheet\* and submit it to the address below, along with the air general permit registration processing fee (\$100.00), payable to FDEP.

**Regular USPS Mail Delivery**

Department of Environmental Protection  
Receipts  
Post Office Box 3070  
Tallahassee, Florida 32315-3070

or

**Overnight Delivery (FedEx, UPS, DHL, etc.)**

Department of Environmental Protection  
3800 Commonwealth Blvd.  
Mail Station 77  
Tallahassee, Florida 32399

If you properly register to use an air general permit, and are not denied use of the air general permit by the Department, you are authorized to construct and operate the facility in accordance with the general terms and conditions of Rule 62-210.310, F.A.C., and the specific terms and conditions of paragraph 62-210.310(4)(f), F.A.C. Your facility may vary, so be sure your registration describes the operations at your facility in sufficient detail to demonstrate the facility’s eligibility for use of the air general permit and to provide a basis for tracking any future equipment or process changes. Your registration should describe all air pollutant-emitting processes and equipment at the facility, and it should identify any air pollution control measures or equipment used.

\*The rules do not require any specific format for the registration. This worksheet, however, has been designed to assist owners and operators. Using it as a template for a general permit registration will help ensure that all necessary information is submitted.

Additional information can be found on the Department’s air general permit program website ([http://www.floridadep.org/air/emission/air\\_gp.htm](http://www.floridadep.org/air/emission/air_gp.htm)) or by calling the Small Business Environmental Assistance Program Hotline at 1-800-722-7457.

**PRINTING OPERATIONS  
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET**

**Facility Identification Number - If known** (seven digit number)

\_\_\_\_\_

**Registration Type**

Check one:

**INITIAL REGISTRATION** - Notification of intent to:

- Construct and operate a proposed new facility.
- Operate an existing permitted facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit). If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. (See "Surrender of Existing Air Operation Permit(s)" below.)
- Operates an existing facility not currently permitted or using an air general permit.

**RE-REGISTRATION** (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
- Continue operating the facility after a change of ownership.
- Make an equipment change requiring re-registration pursuant to paragraph 62-210.310(2)(e), F.A.C.
- Any other change not considered an administrative correction under paragraph 62-210.310(2)(d), F.A.C.

**Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only, if Applicable**

All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):

\_\_\_\_\_

**General Facility Information**

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

\_\_\_\_\_

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a complete registration must be submitted for each.)

\_\_\_\_\_

Facility Location (Physical location of the facility, not necessarily the mailing address.)

Street Address: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Facility Start-Up Date (Estimated start-up date of proposed **new** facility.)(N/A for existing facility.)

\_\_\_\_\_

**Facility Contact**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: \_\_\_\_\_

Facility Contact Telephone Numbers

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Cell phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Facility Contact Mailing Address

Organization/Firm: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_

Zip Code: \_\_\_\_\_

**Other Contact/Representative (to serve as additional Department contact)**

Name and Position Title

Print Name and Title: \_\_\_\_\_

Other Contact/Representative Telephone Numbers

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Cell phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Other Contact/Representative Mailing Address

Organization/Firm: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_

Zip Code: \_\_\_\_\_

**Number and Types of Printing Processes, Presses, and Ink Systems**

Check all that apply and provide the number of each:

- |  |       |  |       |
|--|-------|--|-------|
| <input type="checkbox"/> Heatset Offset Lithographic | _____ | <input type="checkbox"/> Non-Heatset Offset Lithographic | _____ |
| <input type="checkbox"/> Screen or Letterpress       | _____ | <input type="checkbox"/> Water Based                     | _____ |
| <input type="checkbox"/> Flexographic                | _____ | <input type="checkbox"/> Rotogravure                     | _____ |
| <input type="checkbox"/> Digital                     | _____ | <input type="checkbox"/> Ultraviolet Cured               | _____ |

**Initial Registration (Not Required for Re-Registration)**

Provide the method (mass balance or material usage rates) expected to be used to demonstrate compliance with Rule 62-210.310(4)(f)2., F.A.C. Provide the estimated amount of materials containing hazardous air pollutants and solvent-containing materials expected to be used over a 12-month period.

**Re-Registration (Not Required for Initial Registration)**

Provide the highest 12-month total quantity of materials containing hazardous air pollutants and the highest 12-month total quantity of solvent-containing materials used in the last five years to show compliance with sub-subparagraph 62-210.310(4)(f)2.b., F.A.C. (material usage rates) or provide all calculations to show compliance with sub-subparagraph 62-210.310(4)(f)2.a., F.A.C. (mass balance).

## Helpful Definitions

**“Digital Printing”** – The transfer of electronic files directly from the computer to an electronically driven output device that prints the image directly on the selected media (substrate).

**“Electron Beam-Cured”** – An ink and coating drying process by which monomers, oligomers, and other components polymerize to form a film when exposed to an electron beam radiation.

**“Emissions Unit”** – Any part or activity of a facility that emits or has the potential to emit any air pollutant.

**“Facility”** - All of the emissions units which are located on one or more contiguous or adjacent properties, and which are under the control of the same person (or persons under common control).

**“Flexographic Printing”** – The application of words, designs and pictures to a substrate by means of a roll printing technique in which the pattern to be applied is raised above the printing roll and the image carrier is made of rubber or other elastomeric materials.

**“Fountain Solution”** – A mixture of water and other volatile and non-volatile chemicals and additives that maintains the quality of the printing plate and reduces the surface tension of the water so that it spreads easily across the printing plate surface. The fountain solution wets the non-image area so that the ink is maintained within the image areas. Non-volatile additives include mineral salts and hydrophilic gums.

**“Fountain Solution Additives”** – Wetting additives that include alcohol and alcohol substitutes, including isopropyl alcohol, glycol ethers and ethylene glycol, which are used to reduce the surface tension of the fountain solution.

**“Heatset”** – A lithographic web printing process where heat is used to evaporate ink oils from the printing ink. Heatset dryers (typically hot air) are used to deliver the heat to the printed web.

**“Letterpress Printing”** – A printing system in which the image area is raised relative to the non-image area and the ink is transferred to the substrate directly from the image surface.

**“Lithographic Printing”** – A planographic printing system where the image and non-image areas are chemically differentiated. The image area is oil receptive and non-image area is water receptive. Ink film from the lithographic plate is transferred to an intermediary surface (blanket), which, in turn, transfers the ink film to the substrate. Fountain solution is applied to maintain the hydrophilic properties of the nonimage area. Ink drying is divided into heatset and non-heatset.

**“Non-heatset”** – A lithographic printing process where the printing inks are set without the use of heat. Traditional non-heatset inks set and dry by absorption and/or oxidation of the ink oils. Ultraviolet-cured and electron beam-cured inks are considered non-heatset although radiant energy is required to cure these inks.

**“Owner” or “Operator”** – Any person or entity who or which owns, leases, operates, controls or supervises an emissions unit or facility.

**“Printing Line”** – A printing production assembly composed of one or more units used to produce a printed substrate including any associated coating, spray powder application, or infrared, natural gas, or electric heating units or dryers.

**“Rotogravure Printing”** – The application of words, designs, and pictures to a substrate by means of a roll printing technique which involves an intaglio or recessed image areas in the form of cells.

**“Screen Printing”** – A printing system where the printing ink passes through a web or fabric to which a refined form of stencil has been applied. The stencil openings determine the form and dimensions of the imprint.

**“Thermography”** – The process of spreading thermal powders on the wet ink of a print application and heating it in order to melt the powder into a single solid mass which creates a raised printing effect. The heating is accomplished with a natural gas or electric oven.

**“Ultraviolet-Cured”** – An ink and coating drying process by which monomers, oligomers, and other components polymerize to form a film when exposed to ultraviolet radiation.

**“Water-based Ink/Coating/Adhesive”** – An ink, coating or adhesive with a VOC content less than or equal to 25 percent by weight as applied.