

PUGET SOUND CLEAN AIR AGENCY

Additional Notice of Construction Application Requirements for

PRINTING

General

Description of Equipment and its Purpose [*Specify the type of printing process (flexographic, lithographic, heatset offset or non-heatset offset, rotogravure, screen) and its intended use (publication, packaging, or production).*]

Identify which of the following categories the project fits into:

1. New Construction (*New construction also includes existing, unpermitted equipment or processes*)
2. Reconstruction (*Reconstruction means the replacement of components of an existing facility to such an extent that the fixed capital cost of the new components exceeds 50% of the fixed capital cost that would be required to construct a comparable entirely new facility*)
3. Modification (*Modification means any physical change in, or change in the method of operation of, a source, except an increase in the Hours of Operation or production rates (not otherwise prohibited) or the use of an alternative fuel or raw material that the source is approved to use under an Order of Approval or operating permit, that increases the amount of any air contaminant emitted or that results in the emission of any air contaminant not previously emitted*)
4. Amendment to Existing Order of Approval Permit Conditions

Estimated Hours of Operation (hr/day, day/wk, wk/yr) [*Estimate the hours of operation for the new press - not necessarily the entire facility.*]

Estimated Installation Date [*Estimate the date when the new operation will be put into service.*]

Raw Material Properties

Material Safety Data Sheets [*Submit an MSDS for a typical ink and each thinner, fountain solution, cleaning solvent, overvarnish (coating), and photopolymer solvent used*]

Estimated Annual Usage for Each (gal/yr or lb/yr) [*Estimate the net solvent consumption (amount consumed minus the amount shipped off-site as dangerous waste) of ink, each thinner, fountain solution, cleaning solvent, overvarnish (coating), and photopolymer solvent used.*]

Type of Substrate [*Specify paper (coated or uncoated), polyethylene, cellophane, foil, or other (be specific).*]

Emissions Estimate (lb/hr, lb/yr) [*Estimate the emissions of each volatile organic pollutant and include your calculations. Emissions should be estimated using the MSDS as follows: lb/yr =*

(gal/yr)(product density in lb/gal)(% by weight of hazardous ingredient). Product density = (8.34)(specific gravity).]

Design of Flexographic Presses *[Most design information is available from the manufacturer or vendor. Submittal of a brochure, scale drawing or process and instrumentation diagram will facilitate the review of the permit application. Also complete the permit form for thermal oxidizers if using a solvent-based ink. If a paper shredder and a dust collector is used with an air flowrate of >2,000 cfm, also complete the permit forms for cyclones and baghouses]*

Make & Model *[Specify the manufacturer and model of the press - not the serial number.]*

Maximum Web or Sheet Width (inches) *[Specify the maximum width of the web or sheet that the press can accept.]*

Maximum Print Repeat Length (inches) *[Specify the maximum print repeat length (image plate length) the press can print.]*

Maximum Press Speed (ft/min or sheets/min) *[Specify the maximum speed at which the web or sheets can be printed.]*

Configuration *[Specify in-line, stacked, central impression, newspaper, or other (be specific); and specify if printing is performed on both sides of the substrate (perfecting) or not (nonperfecting).]*

Number of Color Units *[Specify the number of print stations or print couples on the press.]*

Type of Inking System: *[Specify simple fountain roller, single doctor bladed anilox roller, or enclosed ink chamber with double doctor bladed anilox roller.]*

Type of Drying System *[Specify hot air or infrared.]*

Design of Offset Presses *[Most design information is available from the manufacturer or vendor. Submittal of a brochure, scale drawing or process and instrumentation diagram will facilitate the review of the permit application. For heatset presses, also complete the permit form for thermal oxidizers. If a paper shredder and a dust collector is used with an air flowrate of >2,000 cfm, also complete the permit forms for cyclones and baghouses.]*

Make & Model *[Specify the manufacturer and model of the press - not the serial number.]*

Maximum Print Width (inches) *[Specify the maximum width of the web or sheet that the press can accept.]*

Maximum Print Repeat Length (inches) *[Specify the maximum print repeat length (image plate length) the press can print.]*

Maximum Press Speed (ft/min or sheets/min) *[Specify the maximum speed at which the web or sheets can be printed.]*

Number of Color Units *[Specify the number of print stations or print couples on the press.]*

Refrigerated Fountain (yes/no) [*Specify if the press refrigerates the fountain solution to 55-60 °F.*]

Organic Solvent Content of Fountain Solution (% as applied) [*Specify the solvent content of the fountain solution as applied. If a fountain concentrate is purchased and diluted with water, look at the MSDS for the concentrate to find the organic content (%) and divide it by the dilution ratio.*]

Automatic Blanket Washing (yes/no) [*Specify if the press is equipped with an automatic blanket washing system.*]

Dust Collection System for Excess Antisetoff Agent (yes/no) [*Specify if a powder (typically modified corn starch) is used to prevent sheets from sticking together. If a dust collector is used with an air flowrate of >2,000 cfm, also complete the permit form for baghouses.*]

Design of Gravure Presses [*Most design information is available from the manufacturer or vendor. Submittal of a brochure, scale drawing or process and instrumentation diagram will facilitate the review of the permit application. Also complete the permit form for thermal oxidizers. If a solvent recovery system is used, also complete the permit form for adsorbers. If a paper shredder and a dust collector is used with an air flowrate of >2,000 cfm, also complete the permit form for cyclones and baghouses.*]

Make & Model [*Specify the manufacturer and model of the press - not the serial number.*]

Maximum Print Width (inches) [*Specify the maximum width of the web or sheet that the press can accept.*]

Maximum Print Repeat Length (inches) [*Specify the maximum print repeat length (image plate length) the press can print.*]

Maximum Press Speed (ft/min or sheets/min) [*Specify the maximum speed at which the web or sheets can be printed.*]

Number of Color Units [*Specify the number of print stations or print couples on the press.*]

Design of Screen Printing Presses [*Most design information is available from the manufacturer or vendor. Submittal of a brochure, scale drawing or process and instrumentation diagram will facilitate the review of the permit application.*]

Make & Model [*Specify the manufacturer and model of the press - not the serial number.*]

Configuration [*Specify flatbed, cylinder or web.*]

Automation [*Specify manually operated, semiautomatic, ¾ automatic, or fully automatic*]

Dryer Stack Exhaust Height (ft) [*Specify the height of the dryer stack exhaust vent above ground level - not above the building or sea level.*]

Stack Diameter or Rectangular Cross-Sectional Dimensions (inches) [*Specify the internal dimensions - not the external dimensions.*]

Exhaust Flowrate (acfm) *[Specify the airflow in actual cubic feet per minute.]*

Exhaust Temperature (°F) *[Specify the temperature of the exhaust leaving the stack.]*

Distance to Nearest Property Line (ft) *[Specify the distance from the base of the stack to the nearest property line.]*

Height, Length and Width of Buildings (ft) *[Specify the approximate dimensions of any buildings that are >40% of the stack height and are located within 5 building heights from the stack]*