# Florida Department of Environmental Protection

## Memorandum

**TO:** Charles Harp
**THROUGH:** Armando I. Sarasua, P.E.
**FROM:** Angelia Jackson
**DATE:** January 24, 2013
**SUBJECT:** Evaluation Summary for Parthenon Prints, Inc., Panama City Plant 0050026-006-AO, Bay County

We recommend issuing a renewal permit to Parthenon Prints, Inc. to operate their Panama City Plant. This permit follows Permit 0050026-004-AO, effective February 29, 2008. This permit incorporates Permit 0050026-005-AC, effective March 21, 2008, which increased printing capacity from 1.0 million to 1.5 million yards per year, eliminated the fabric printing process loop dryer, added a fabric printing press/dryer, and reduced wallpaper screen cleaning mineral spirits VOC emissions from 47 TPY to 27 TPY by manual scrubbing and 1.73 TPY VOC emissions by eliminating the spray gun cleaner.

**Process Description**. This facility produces relatively small batches of printed wallpaper and printed textile fabric in a wide variety of patterns by use of screen printing. Color solutions are mixed with various pigments and are transported to the printing equipment. A thin layer of glue is applied to the underside of the fabric in order to make it adhere to the equipment during the screen printing process. Drying, steaming and washing processes are used at various stages. Two boilers, each under 1.0 MMBtu/hr heat input, provide steam to the facility and are considered exempt. A drum dryer is used to solidify excess ink solutions. Extensive cleaning is required each time a pattern is changed. Cleaning solvents, used to clean the equipment, are the primary source of VOC and HAP emissions.

**Pollution Control Equipment**. A central scrubber/fume eliminator, CVC Corporation, Model 80 CTR-12, receives air captured and ducted from the fabric and wallpaper dryers/curers.

**Environmental Impact**.

| Airborne Contaminant Emitted | FAC Rule | Estimated Emissions | | Allowable Emissions | |
|---|---|---|---|---|---|
| | | lbs/hr | T/yr | lb/hr | T/yr |
| VOC | N/A | N/A | 44.05 | N/A | N/A |
| HAP | N/A | N/A | 1.23 | N/A | N/A |
| Objectionable Odors | 62-296.320(2) | N/A | N/A | None allowed off plant property | |
| VE | 62-296.320(4)(b) | N/A | N/A | Not more than 20% opacity | |

**Applicable Rules & Regulations**. This facility is not subject to any activity- or industry-specific regulation.

**Compliance Monitoring**. A reading from the pressure differential gauge installed on the fume eliminator shall be recorded at least daily when the fume eliminator is in operation. Permittee shall maintain records of VOC and HAP emissions.

**Compliance History**. Compliance Inspections within the last five years noted the facility to be In-Compliance.

**Fee Summary**. This is an AO2B ($1,000 fee) minor source with no stack test.

AJ/c