Title V Air Operation Permit Renewal
Permit No. 0910063-009-AV

APPLICANT

The applicant for this project is Kitchen & Bath Center, Inc. The applicant's responsible official and mailing address are: Ron Fisher, President, Kitchen & Bath Center, Inc., 20 Northwest Ready Avenue, Fort Walton Beach, Florida, 32548.

FACILITY DESCRIPTION

The applicant operates the Kitchen & Bath Center located at 20 Northwest Ready Avenue in Fort Walton Beach, Okaloosa County.

The Kitchen & Bath Center facility is a cultured marble manufacturing and solid surface and granite surface finishing facility producing cultured marble household fixtures such as vanity tops, bath tubs, shower enclosures, etc., and solid surface and granite surface products such as kitchen counter tops and vanity tops. Solid surface casting is no longer done on-site. A granite surface process has been added. Purchased casts are used for the solid surface and granite surface processes.

The cultured marble process utilizes cultured marble fines, marble resin and gelcoat to produce household fixtures such as vanity tops, bath tubs and shower enclosures. Cultured marble fines are pneumatically loaded into a silo from tanker trucks with loading emissions controlled by Baghouse No. 1 (Exhaust B, located atop the silo). The marble fines are then conveyed by an enclosed screw conveyor to mixers and mixed with marble resin, which is delivered to the facility in bulk liquid containers. Prior to casting, molds are sprayed with gelcoat in a gelcoat spray booth and cured (dried) in a heated tunnel (dryer). After gelcoat drying, the marble mixture is applied to the gelcoat-coated molds and allowed to open dry inside the facility. The emissions associated with the gelcoating of molds are captured and vented to the atmosphere (Exhaust Stack A) while emissions associated with resin application and open curing of molds are vented to the atmosphere by general roof exhaust fans. After curing is complete, the molded fixtures are removed from the molds, and then finished by sanding and polishing in a finishing booth. Volatile Organic Compound (VOC) emissions from resin application and curing are included in calculated emissions for resin usage. Particulate matter (PM) emissions associated with sanding and polishing are exhausted into Baghouse No. 2 (Exhaust C, located on the northeast side of the facility). The gelcoat booth utilizes two types of filters, a two-inch thick paper filter and a cotton cloth cover that acts as a pre-filter.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V permit for the above referenced facility. This renewal follows permit No. 0910063-008-AV, effective date April 2, 2007.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Renewed Title V Air Operation Permit issued April 2, 2007
Application for a Title V Air Operation Permit Renewal received September 15, 2011
Additional Information Request dated October 21, 2011
Additional Information Response received January 27, 2012
Notice of Intent to Issue Air Permit issued April 23, 2012
Public Notice Published [pending]

PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is identified as a major source of hazardous air pollutants (HAP).

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is not a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility does not operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility does operate units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

CAIR: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility.

PROJECT REVIEW

This renewal reformats the Title V permit to a revised format that became the new standard for Title V renewal projects in 2011.

During this renewal, changes were made to the visible emissions limit and the Particulate Matter (PM) limit for Emission Units 004. The previous 5% visible emissions limit was changed in this permit to 20% per the general facility-wide VE standard because there was no rule-based requirement for PM testing and thus no reason for a 5% VE limit in exchange for a waiver of PM testing as was written in previous permits. The PM limit of less than 100 tons per year was also removed.

CONCLUSION

This project renews Title V air operation permit No. 0910063-008-AV, which was issued on April 2, 2007. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C.