COATING & PRINTING

PROJECT: Air Permitting

CLIENT: Boyd Coatings, Hudson, MA

Epsilon prepared air permit application for a specialty coating firm. We worked with Company engineers to develop a pollution prevention plan (testing of new spray guns, low-VOC coatings) to lower facility emission rates and developed a record keeping system to demonstrate compliance with VOC limits.

PROJECT: Restricted Emission Status (RES) Application, BACT Analysis

CLIENT: The Haartz Corporation, Acton, MA

Epsilon prepared a facility-wide RES application to opt out of Title V operating permit application for an automotive supplier's solvent-based rotogravure printing lines and other water-based coating lines. We prepared the BACT analysis and air plan application for a new coating line with a regenerative thermal oxidizer, and received DEP approval in less than 3 months to meet project's fast track timeline. We determined compliance with RCRA Subpart CC regulations for air emissions from facility solvent storage tanks, and prepared an air plans application for replacement of thermal oxidizers on existing coating lines with new regenerative thermal oxidizers.

PROJECT: General Environmental Management

CLIENT: Hero Coatings, Inc., Newburyport, MA

Epsilon provides on-going environmental management services for a coatings/adhesives manufacturing facility. We prepare annual reports for air emissions and use of regulated chemicals, review facility-generated MSDS, safety and DOT labels for compliance purposes, and prepared a Spill Prevention Control and Counter-measures (SPCC) Plan.

PROJECT: Process Design and Permitting of Regenerative Thermal Oxidizer

CLIENT: National Coatings Corporation, Rockland, MA

Epsilon performed process design of a collection system; and specified and negotiated the purchase of a new 40,000 scfm, 99% control, regenerative thermal oxidizer for three coating lines, including measures to reduce solids buildup from phenolic resins. The system was designed to meet BACT and proposed MACT. We prepared the air permit application and received expedited approval, managed compliance stack testing of the existing oxidizer, and designed conversion to Permanent Total Enclosure to avoid capture-testing cost. We prepared the Title V operating permit application.

COATING & PRINTING

PROJECT: Facility Air Pollution Control Redesign

CLIENT: Sarnafil, Inc., Canton, MA

Epsilon developed an air pollution control configuration for the facility 's roofing membrane extruder coating lines using existing particulate control equipment (wet ESP, HEPA filtration system) and existing VOC control equipment (regenerative thermal oxidizer). The redesign was based on emission testing to optimize the reduction of VOC and PM for the facility and resulted in lowering overall facility emissions.

PROJECT: BACT Analysis and Air Quality Management

CLIENT: Shawmut Mills, Massachusetts, Michigan, and Texas Plants

Epsilon prepared multiple air plan applications, including a complete mass balance study, and BACT analyses for four fabric adhesive lamination/coating lines and three carbon absorption systems. We managed measurement programs for PM and various HAPs from flame lamination process; and successfully advocated with EPA for a "no-control" MACT. We prepared the Title V operating permit application, and obtained air permits for Michigan and Texas facilities.

PROJECT: New Thermal Oxidizer

CLIENT: Shawsheen Rubber Company, Andover, MA

Epsilon assigned a new 17,500 scfm recuperative thermal oxidizer and associated ductwork to replace an aging 9,000 scfm unit. We developed process design and specifications of a collection system for two pressure sensitive tape coating lines and oxidizer, completed MADEP air permitting process, and prepared a detailed estimate of gas savings on behalf of the client. The project resulted in a $50,000 rebate issued to client from the local gas distribution company.