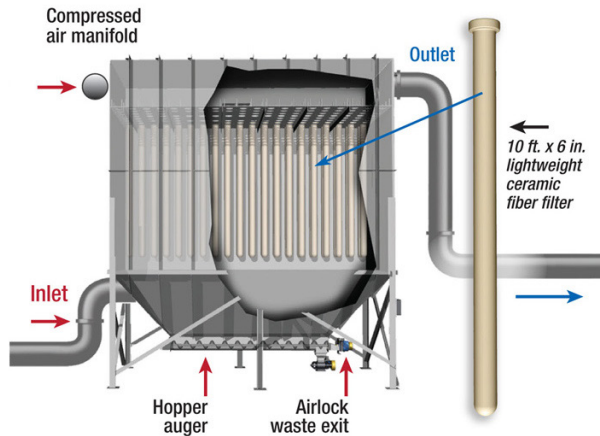


Technology

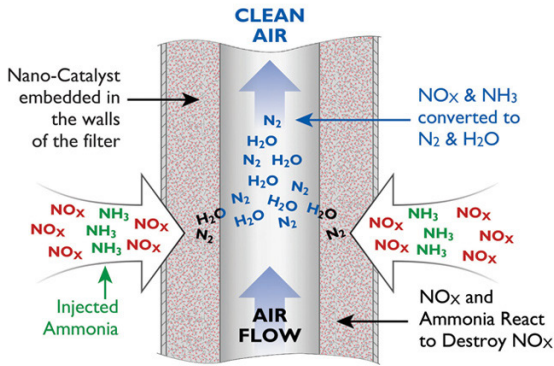
Dolton Abatement Project

As part of the Global Consent Decree (GCD), Saint Gobain Containers are required to install abatement pollution control equipment on various furnaces throughout the organization. The Dolton plant falls into this category, but is somewhat unique as one of the requirements to control nitrogen oxide emissions (NOx) is through the installation of a Selective Catalytic Reduction system (SCR). VNA's traditional technology to control NOx is through oxygen-fired furnaces or oxygen-enriched air staging.

Under the GCD, the Dolton plant met this requirement. The plant installed a pollution control system designed, and manufactured by Tri-Mer. The system uses the latest Catalytic Ceramic Filter technology.



The Ceramic Catalyst Filter is an all-in-one system designed to control particulate matter (PM), sulfur dioxide (SO₂), metals, and NO_x by using a dry sorbent injection of Sorbocal SP (hydrated lime) material which reacts with acid gases to control SO₂ and ammonia injection which, in turn, controls the NO_x upstream prior to the inlet of the system. The reacted gas passes through the catalyst-embedded filters to process the PM, SO₂, sorbent PM, and NO_x which then allows the clean air to pass through the center of the filter where it is measured by a continuous emission monitoring device prior to leaving the stack.



This pollution control system required a smaller footprint and, overall, the total cost of ownership is lower than with standard electrostatic precipitators and standard selective catalytic reduction systems.

For questions on this process, please contact Stephen Frakes, Manager, Project Engineering, at 765-741-7182.

Stephen Frakes
Manager, Project Engineering