



ASPHALT STORAGE TANK VENT EMISSIONS

CECO Filters

PROBLEM

A leading distributor/manufacturer of asphalt products used large heated tanks to store asphalt in a liquid state for distribution to either tank trucks or directly to their manufacturing process. As the asphalt is heated to insure drainage, the tanks are under a slight pressure. Asphalt vapors or fumes are vented from the tanks.

An air pollution regulatory agency notified the company that the asphalt emissions were not in compliance with their environmental codes and that venting to the atmosphere must stop. Several methods were explored by the company to remove these fumes including incineration systems. As the distance was great between tanks, it was impractical to combine the vented fumes from each tank to a common duct to a central collection point for incineration. Therefore, each tank would have to have its own incinerator. With all the requirements and equipment, the incineration option became very expensive.

SOLUTION



The distributor/manufacturer contacted CECO Filters to discuss the possibility of using fiber bed filters to remove the asphalt tank emissions. CECO Engineers developed a fiber bed filter system that would remove the asphalt fumes from the tank vent, collect the asphalt and exhaust clean air to the atmosphere. The filter bed filter is housed within a cylindrical carbon steel shell with inlet and exhaust fittings. A sump at the bottom of the shell permits draining of the collected asphalt. The collection system is operated without the use of any moving equipment.

RESULTS

The company tested one unit on a tank. The system operated as designed and met pollution control codes. Filter replacement costs are minimal. The company is in the process of installing this system in their plants throughout the country. The cost of this system vs. an individual incinerator unit resulted in a capital savings of over 90% with operating costs. CECO's filter technology and engineering know-how resulted in substantial savings for this distributor/manufacturer. CECO Filters has the broadest range of filter media available at affordable prices and provides the most technically advanced filter media and systems. For all your odor, opacity and mist control problems contact CECO Filters, the innovators in fiber bed filter technology.

PROCESS FLOW DIAGRAM



Contact

CECO ENVIRONMENTAL is a leading environmentally focused, diversified industrial company whose solutions protect people, the environment, and industrial equipment across the globe, serving a broad landscape of industrial air, industrial water and energy transition markets. It is listed in NASDAQ (ticker symbol: CECO).



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