

Tank Degassing

Pollution Prevention: Reduction of VOC Emissions From Tank Degassing and Loading Operations

NEW air quality regulations have been enacted!

In many regions, air quality regulations have been enacted to control emissions of volatile organic compounds (VOC) from facilities that load organic liquids. Conditions include actual loading into tank trucks, trailers, railroad tank cars, above and below ground storage tank, marine barge and ship fuel tanks.

This includes storage tank degassing regulations designed to reduce VOC emissions from aboveground and underground storage tanks. Storage tank cleaning and repair operations are distinct steps in a "degassing" process and a source of VOC emissions.

U.S. Patent: 4,846,34; 4,979,886

Canadian Patent: 1,287,805

The emissions generated during the cleaning and repair operation come from the vacuum pump that extracts the sludge and rinsing liquid from the storage tank. Industries subject to these provisions include tank owners and operators, as well as companies involved in tank excavation, tank repair, tank cleaning, and tank degassing operations.

ICE technology Features:

- Flare Reduction
- Industrial Degassing
- Centrifuge Vapor Abatement
- Vacuum Truck Vapor Control
- Approved For Hot Work Zones
- Technology PROVEN Worldwide
- Industrial Waste Vapor Processing



Maximum VOC emission allowances are typically quite stringent. In California, for example, VOC loading and storage facilities must be equipped with an approved vapor recovery and/or disposal system. Furthermore, until January 31, 1998, the system must reduce the emissions of VOCs to 0.29 pounds or less per thousand gallons (35 grams per 1,000 liters) of organic liquid transferred. Effective February 1, 1998, this regulation gets tougher where emissions of VOCs are reduced to 0.08 pounds or less per thousand gallons (10 grams per 1,000 liters) of organic liquid transferred.

To control these emissions, two options are contemplated by the regulatory boards: (1) A vapor recovery system capable of collecting and returning discharged hydrocarbon vapors and gases during loading of organic liquids into transport vessels back to a stationary storage container, or into an enclosed process system; and (2) a vapor disposal system designed and operated to destroy VOC emissions prior to discharge into the atmosphere.

