

Containment Vessels Only Passive Technology Acceptable

Facilities that handle chlorine and other toxic gases and store more than 2500 pounds¹ of material are required by the Federal Environmental Protection Agency to conduct Risk Management Plan (RMP) studies. The studies are technical in nature and require a thorough analysis to address the potential for a toxic gas release into the community.

The program also requires identifying certain types of public receptors and environmental receptors that could be exposed to a release of gas from a site. The most significant aspect of the study addresses a worst case release scenario to assess the offsite consequences to the surrounding community.

The RMP study permits the inclusion of mitigation factors to reduce the rate of release and the area affected. Only passive elements can be considered as a mitigation device in the RMP worst case scenario.

TGO Technologies' Total Containment Vessels are the only technology that has been classified as "passive." As a result, the surface area reductions for worst case release with the vessel is 97 percent with the end point of a release of chlorine, worst case less than 500 feet at 3 ppm. The release will probably be of a lesser amount due to expected freezing of the feed line. No other technology will provide this level of safety.

Scrubbers and fail-safe shut-down valve systems cannot be considered and will not provide any reduction in the offsite area affected when conducting the federal EPA Risk Management Plan (RMP) studies.

Containment vessels provide fire protection, blast protection, and are described in the Uniform Fire Code and the International Fire Code as a "treatment system" because contained material can be processed at the site.

The vessels are used to process chlorine from a chlorine cylinder or ton container that is enclosed within the vessel. The vessel will also serve as an emergency vessel for leaking cylinders.

For more information: See ChlorTainer at www.tgotech.com

¹If a site has two, one-ton containers, both contained within vessels, as per General Guidance for Risk Management Programs, the threshold quantity to conduct RMP study will go from 2500 lbs to 5000 lbs, and no RMP study will be needed.