

Closely Monitoring Wastewater Treatment Plants

Keeping an eye on your safety

Increasing world population and the resulting effect on the environment have led to the proliferation of wastewater-treatment plants across the globe.

However, wastewater-treatment processes use and produce a variety of highly toxic and combustible gases. For example, H_2S is a toxic gas that is naturally present and produced in the wastewater-treatment process and is found in raw sewage and during sludge treatment. Ammonia (NH_3), ozone (O_3), and chlorine (Cl_2) are also used in the decontamination stage.

These hazardous activities require close monitoring to ensure the safety of personnel, equipment, and the environment.



Challenges

- Locating the areas where toxic gases are generated and emitted and monitor them
- Ensuring quick detection of toxicity and prevent people from being exposed to harmful concentrations
- Continuous monitoring and detection of emissions before toxic gases combust
- Detecting flames to prevent damage and explosions

Solutions

Spectrex's innovative detectors prevent leakage of highly toxic gases in wastewater-treatment plants. They provide close monitoring of toxic gases like H_2S , ammonia (NH_3), ozone (O_3), and chlorine (Cl_2), which are prevalent in these processes. These monitoring systems allow quick detection and prevent people from being exposed to harmful and toxic gases.



The Next Generation of SharpEye™ Quad-Sense™ 40/40 Flame Detectors - field-proven, reliable detectors that provide the fastest, longest detection of hydrocarbon-based fuel and gas fires.



Quasar 900 - open-path detection system that provides innovative continuous IR technology monitoring for combustible hydrocarbon gases at very low concentrations, ensuring reliable and accurate protection.



SafEye Quasar 950 - open-path toxic gas detectors for hydrogen sulfide, which is pervasive in water-treatment plans. They provide extremely reliable detection in all weather conditions.



SafEye Quasar 960 - open-path NH_3 gas detector for the detection of ammonia escapes, which is also prevalent in wastewater-treatment plants.