



CASE STUDY

Sentry™ Emergency Gas Scrubber (EGS)

Water Treatment Plant at New Buffalo, Michigan

THE PROBLEM:

In late 2011, The City of New Buffalo, Michigan, completed an expansion and upgrades to their existing 40-year-old Water Treatment Plant. Part of these upgrades included the addition of a third filter building to handle one million gallons per day, and with that, the requirement to add chlorine gas scrubbers to be on standby in the event of an emergency. PureAir's Sentry™ Emergency Gas Scrubber (EGS) and Safetysorb adsorbent media were chosen for the job. A few years later, the municipality found itself in the terrifying situation of a leak, and all were relieved that the Sentry™ EGS was onsite.



THE SOLUTION:

The particular unit chosen was an EGS-150. The 48" diameter vessel was made of fiberglass reinforced plastic and utilized a two-horsepower blower. Based upon a capacity analysis of Safetysorb media, it was determined that 50 ft³ of the chemical adsorbent would be needed to remove the volume of chlorine if there was a leak. This analysis proved correct during an emergency event. Just as designed, the standby system jumped into gear as soon as a leak was detected. The chlorine was pulled from the building and through the EGS unit, emitting only clean air. The scrubber was able to contain the situation until the leak could be fixed, and therefore, no damage was caused to personnel or the environment.



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