

NewStream Shutdown Averted

Aerisa's Unique Odor Control Technology Saves Wastewater Treatment Facility from Shutdown While Providing Significant Savings

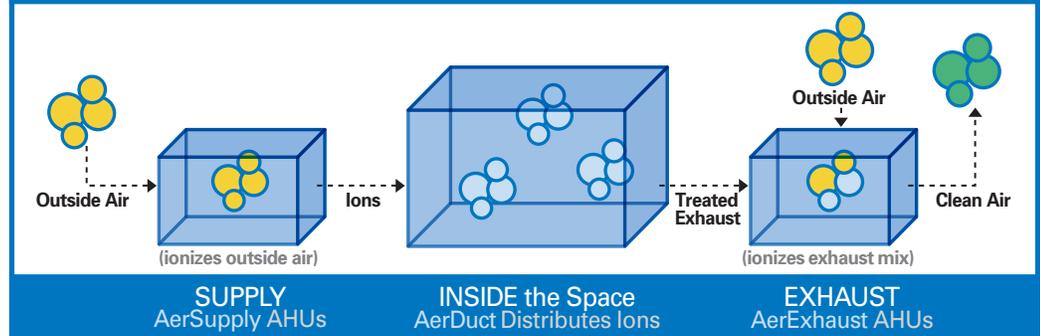
The Situation

NewStream, a 90,000 sq. ft. high capacity industrial wastewater treatment facility located in Attleboro, MA, was facing possible shutdown from the city council due to odor complaints from the surrounding community. In 2012, the facility began receiving blame for sporadically releasing odors into its neighborhood. A number of factors contributing to the odors were identified. In addition, the plant's existing

A Custom Solution

As timing was critical for NewStream due to community pressure, the engineering team at Aerisa identified ways to utilize existing air handling units (AHUs) in the facility to house the Aerisa ion generators. The ability to leverage existing HVAC infrastructure is an often utilized benefit of Aerisa system retrofits, such as at NewStream. Aerisa's energy efficient ionization units were installed inside inactive AHUs previously

AERISA'S TWO-STAGE APPROACH FOR ODOR ELIMINATION



chemical scrubbers could not effectively treat the variety and respective concentrations of odors being produced by the facility. "We needed a solution that addressed odors from multiple sources," said Michael Spoor, president of NewStream. "Aerisa came highly recommended as a reliable and effective technology."

A New Approach

Aerisa is a unique indoor air quality solution. Traditional odor control methods, such as chemical wet scrubbers or carbon adsorption systems, only treat exhaust air and are both capital and maintenance intensive. Aerisa's innovative approach proactively purifies a facility's air volume with a much lower total cost of ownership.

The Aerisa solution starts with generating ions in a supply air handler. These positive and negatively charged ions are then sent through a duct system into the facility where they attack contaminants at their source. In most cases, the process air is then ionized again in an exhaust air handler as it exits the facility. This approach creates a healthier environment for workers and minimizes the possibility of complaints from nearby homeowners or businesses. It also significantly reduces corrosion as the ions convert rust-causing gases into non toxic byproducts such as elemental sulfur.

The Aerisa system is simple to deploy as well as to manage and maintain, which results in significant long term savings. All this is provided without the use of harmful ozone and chemicals, or the concern of hazardous waste disposal.

used to provide heat and ventilation through existing ductwork in the treatment area. NewStream personnel placed the AHUs back into service, and the ionization units were energized. Neutralizing ions immediately began attacking airborne and deep-seated odors throughout the building. "We were impressed by the elegance of the simplicity of the system and the speed at which the Aerisa team was able to respond to our needs," said Spoor. "From proposal to installation, the project took only six weeks to complete."

The Results: Immediately Eliminated Odors and Provided Significant Cost Savings

Since the Aerisa system was installed, NewStream has not received any odor complaints and was approved to continue operations by the city council. "Within hours we noticed a significant improvement in our air quality," said Spoor. "Now, six months later, the odors have been completely eliminated, and we've had no further odor complaints from the surrounding community."

Utilizing the existing AHUs saved over \$200,000 in product and installation costs. In addition, NewStream's ongoing maintenance costs will be approximately one-third of traditional scrubber systems, resulting in a very attractive total cost of ownership.

"I would definitely recommend this system to any wastewater treatment facility facing similar issues," said Spoor. "The Aerisa team delivered great results by solving our odor issues while saving us money on installation and long term operational costs."

Highlights

- Ongoing community complaints and threat of shutdown from city council drove the need for a quick and effective solution
- Current odor treatment system not able to handle odors
- Needed a system that addressed odors from multiple sources



Racks of Ionizer Units

Aerisa Solution

- Eliminates odors within hours of installation
- Treats odors at their source
- Creates healthier work environment
- Provides significant capital, installation and operational savings
- Ongoing maintenance costs approximately one-third that of traditional scrubber systems
- Straightforward retrofit for most municipal wastewater facilities



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