



Air Purification Technology

Removing odor, corrosion, airborne dust and VOCs at wastewater treatment and industrial facilities

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Greetings!

Aerisa Receives Landmark Purchase Order

West Knox Utility District, Melton Hill, Tennessee

Aerisa, a leader in air quality improvement, announced today that its odor control ionization technology has been chosen for the new West Knox Utility District Wastewater Treatment Plant located in Melton Hill, Tennessee. This greenfield facility is being built to handle 6 MGD with peak flows of 15 MGD.



Bobby Clemmer, President of BAR Environmental (Aerisa Representative) said that *"The Utility District and the area neighbors were really concerned about the possibility of odor problems from the new WWTP. The decision was made to put the screening and dewatering processes indoors for odor containment and treatment. An air ionization/ventilation system was selected to address odor and corrosion problems in those buildings."*



The \$1 million purchase order provides the supply of Aerisa's equipment and technology for the two story headworks building (42,300 CFM scrubber) as well as for the two story sludge dewatering building (47,500 CFM scrubber). Each system is outfitted with inlet louvers, pre- and final particulate filters, gas fired heaters, a fan array, ion generators, slide-out racks, and a double-wall custom air handling unit to house it all. A specially designed duct system is also provided to distribute the highly ionized air strategically throughout each building for maximum efficiency.

A Human-Machine Interface (HMI) control panel with direct connection to the facility's SCADA system will control each unit and report on their functionality.



GRW Engineers, a full service engineering, architectural, and geospatial consulting firm, had the lead on engineering this massive



project. ***"The air ionization process was selected after consideration of several alternative systems to address the anticipated odor potential associated with the screening and dewatering systems,"*** said one of the engineers responsible for the odor control package. ***"We were able to work with Aerisa to integrate the required ventilation and heating systems into the ionization system design for each of the two buildings."***

Both odor control systems are scheduled for installation and start up in the first half of 2018.

This project is ground-breaking in many areas:

- The largest ionization system to be utilized in this type of application in North America
- Fan array technology with VFD/bypass for the ionization scrubbers to provide built-in redundancy
- To prevent fugitive odors, customized upblast rooftop fans are provided to maintain specific building pressurization
- Specialized slide-out rack systems for the ion generation module for ease of maintenance and safety of its operators
- System to be monitored and controlled by an HMI control panel. Fan array, VFDs, ion generators, heater operation and temperature settings are just a few of the HMI's functions
- Natural gas heaters are provided within the scrubbers for building temperature control combining the odor control and building heating systems



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ABOUT AERISA

Aerisa manufactures bipolar ionization technology that results in **dramatic air quality improvements** in a wide array of markets including industrial, institutional, commercial and residential. Aerisa successes are found in the most demanding applications, such as wastewater treatment, food processing, casino, athletic, and transportation.

CALL OR EMAIL TODAY TO DISCUSS YOUR SPECIFIC APPLICATION
(404) 990-1011 or info@aerisa.com

To put Aerisa's revolutionary odor control technology to work for you and your company, please visit Aerisa.com or call (480) 302-6300.

Sincerely,

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