

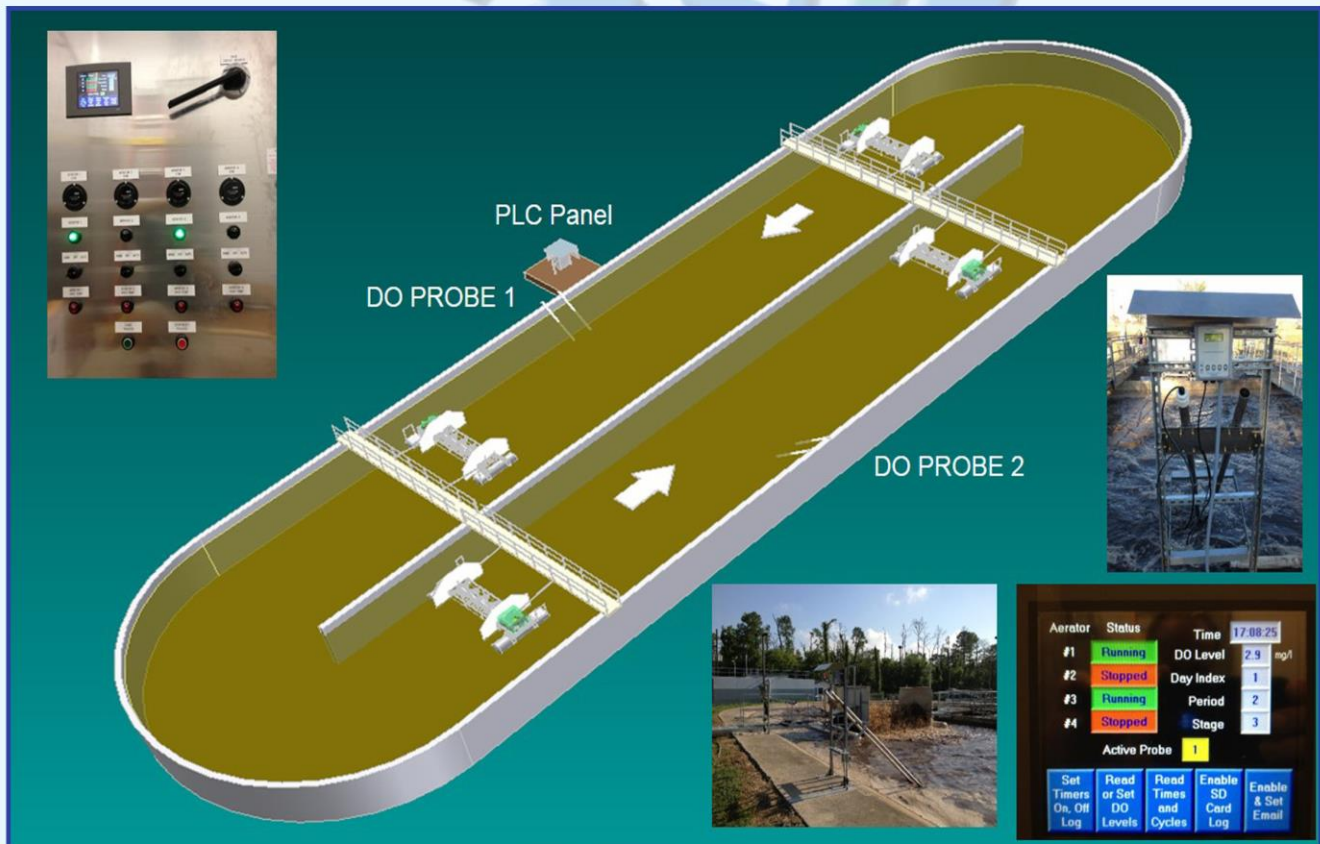


# Nr'G MISER ON/OFF Oxidation Ditch System

**AEROBIC  
OXIDATION DITCH**

## System Operating Parameters Activated Sludge - Nitrification/Denitrification ON/OFF Operation for Energy Savings

- \* The Airoflo Floating Brush Rotor provides **EXCELLENT O<sub>2</sub> TRANSFER** with the plus of **OUTSTANDING MIXING**, which eliminates the need for additional equipment such as mixers or diffusers.
- \* With the robust dynamics of the Airoflo Rotor, the complete system or individual units are shut down intermittently without concerns of quickly regaining the proper levels of mixing and aeration.
- \* Automation is designed around the Optic DO probe and a PLC based control panel to provide an operator friendly system.



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Retrofit existing WWTP's by upgrading aeration equipment & controls to save energy and meet new limits.



### *Brief Summary of OX Ditch N'rG MI\$ER*

- \* Each day is broken into four six hour periods.
- \* Each period broken into 3 stages
  - (1) **ANOXIC**... all units OFF, anoxic treatment replaces aerobic treatment.
  - (2) **SCOUR**... all units ON for a short period... DO comes back up & solids are dispersed
  - (3) **OPTIMIZATION**... units are controlled to operate between specific DO ranges.

The three stages are manipulated through the PLC, the DO probes, and **proprietary operating procedures** to prevent solids buildup, keep run times relatively equal, provide excellent treatment and above all save energy & increase the equipment life cycle.

### **Nr'G MI\$ER BENEFITS**

- \* Energy Savings
- \* Process Automation & Operator Work Load Reduction
- \* Longer Equipment Life Cycle
- \* Reduced Maintenance Costs & Labor
- \* Alkalinity Recovery with Denitrification
- \* **OPTIONAL** Remote Site Monitoring
- \* Operator Support and Re-allocation of Time Management

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