Wastewater Disinfection with Peracetic Acid (PAA)
What is PAA?

Is produced from the reaction between acetic acid, hydrogen peroxide and water.

Acetic Acid + Hydrogen Peroxide ↔ Peracetic Acid + Water

Breaks down in the environment to water, acetic acid and oxygen.
Drivers for Conversion

- **Cl₂ / NaOCl DBPs**: PAA does not produce disinfection byproducts
- **Cl₂ / NaOCl Toxicity**: PAA does not require quenching
- **Cl₂ Safety**: PAA does not require a Risk Management Plan
- **UV Performance**: PAA is effective in low UVT and peak flows
- **UV Capital Cost**: PAA requires very low to no capital cost to implement
Largest PAA Application for WWTP
Memphis, TN

M.C. Stiles and T.E. Maxon WWTPS:
30 million lbs of PAA / yr

M.C. Stiles Plant

PeroxyChem PAA Dosing System

PeroxyChem Wolf River production Plant