

# Marvin V. Drake

Staff Consultant



## EXPERIENCE

### Staff Consultant

2019-Present

### Technical Specialist

2014-2018

### Power Plant Chemist

2001-2014

### Owner Aqualink, Inc.

1987-2001

### District Representative

1979-1987

## EDUCATION

### University of South Florida

B.S. Chemistry

Mr. Drake has over 40 years of water treatment experience in the power, cogeneration, sugar, industrial and HVAC industries. Mr. Drake's career started with Betz Laboratories and Drew Chemical as a District Representative. He then started and operated Aqualink, Inc. providing water treatment chemicals to industrial and commercial clients. Mr. Drake then worked as the Power Plant Chemist for a 360 MW pulverized coal fired power plant, Indian-town Cogeneration LP. Prior to joining Sheppard T. Powell Associates LLC, Mr. Drake was a corporate Technical Specialist for Applied Specialties, Inc., a provider of water treatment chemicals and services to utilities, heavy industry and municipalities.

**Boiler Water Treatment.** Mr. Drake has extensive experience in the implementation, evaluation and operation of boiler water treatment programs. He has evaluated boiler tube failures; assisted in root cause failure analyses; and performed due diligence studies, power plant laboratory setup and management. He has extensive experience with online analyzers. He has been involved in routine troubleshooting for all types of boiler water treatment related issues.

**Cooling Water Treatment.** Mr. Drake has extensive experience in all phases of cooling water treatment - large power plant and industrial cooling systems and HVAC cooling systems. He has been involved in specifying and implementing cooling water treatment programs. He has experience in developing computer based condenser and heat exchanger performance monitoring programs.

**Zero Discharge.** Mr. Drake has been involved in several ZLD systems in his career. He was responsible for the successful conversion of a thermal ZLD system to an MF/RO system at a power plant. Mr. Drake has been involved as a consultant on several ZLD systems, helping to improve operation and compliance.

**Membrane Systems.** Mr. Drake has extensive experience in many types of membrane systems including reverse osmosis, ultrafiltration, and microfiltration. He has operated large systems, as well as designed and built membrane systems. He has extensive experience in membrane system troubleshooting and cleaning operations.

**Pretreatment Systems.** Mr. Drake has experience in all types of pretreatment systems including clarification, softening, demineralization and filtration.