

# John W. McGraw

Staff Consultant



## EXPERIENCE

### Staff Consultant

2017-Present

### General Manager and Chemical Cleaning Subject Matter Expert

2005-2017

### Regional Sales Manager, Safety and Training Manager, Division Manager

1994-2005

### Senior District Sales Engineer

1979-1994

### Equipment Operator and Service Sales Engineer

1975-1979

## EDUCATION / CREDENTIALS

### OSHA Certified Trainer

### Field Engineers School

Dowell Division Technical Training Program for Nonengineers

### 40 Hour HAZWOPPER

## MEMBERSHIPS

- EPRI Power Plant and Environmental Chemistry

Mr. McGraw has over 40 years of experience in chemical cleaning and has performed over 400 boiler cleanings. Prior to joining Sheppard T. Powell Associates, LLC (STPA), Mr. McGraw initially worked for Halliburton Industrial Services and then worked for 26 years (1979-2005) for the Dowell Division of Dow Chemical, Dowell Schlumberger, and Hydrochem Industrial Services, the same company with different names. Mr. McGraw then worked for 12 years with Veolia Environmental Services. He retired in 2017 from full time chemical cleaning work and joined STPA as a part time Staff Consultant.

Mr. McGraw has extensive experience with all chemical cleaning solvents used for operational and preoperational cleaning of boilers and HRSG units and operational cleanings of condensers, cooling water systems and steam turbines in power plants, pulp and paper mills and marine applications. In addition to chemical cleaning with liquid solvents, Mr. McGraw has experience with foam and vapor phase cleaning. He has been responsible for the planning, performance and management of many pre-operational chemical cleanings, steam blows and air blows for new power plants. As part of the overall management of chemical cleaning projects, Mr. McGraw's responsibilities included planning and implementation of procedures for onsite storage and onsite/offsite disposal of chemical cleaning wastes, safety procedures and contingency planning for spills to insure that the chemical cleaning projects were conducted in a safe and environmentally responsible manner.

Mr. McGraw has been responsible for solvent selection, cleaning system design, and development of proposals and procedures for chemical cleanings as well as onsite supervision of cleanings and provision of technical support to field personnel. He has extensive experience with atomic absorption (AA) spectrophotometers and other types of testing used for chemical cleanings. As subject matter expert on chemical cleaning he has been involved in the following aspects of cleanings.

- Technical Training
- Project Design and Planning
- Estimating Flow Rates and Heating
- Requirements for Cleaning
- Personnel and Equipment Utilization
- Cost Estimation
- Job Supervision
- Service Quality Assessments
- Troubleshooting
- Assistance with Safety Program
- Enforcement
- Cost Estimation
- Managing Sales Personnel
- Resolving Customer Disputes

Mr. McGraw has 30 years of experience with hydroblasting. This includes the use of manual and automated hydroblasting equipment operating at pressures of 10,000, 20,000 and 30,000 psig. Cleaning processes have included internal hydrojetting of boiler tubes, external deslagging of boiler tubes, reactor cleaning, concrete cutting and general surface (cosmetic) cleaning of various surfaces. He also managed a hydroblasting contract for over three years with no OSHA recordable incidents.

Mr. McGraw has experience with flushing turbine lubricating oil systems for large utility steam turbines as well as flushing small hydraulic systems. This includes planning of oil flushes and particle removal cleanings.