

ProChemTech International, Inc. Supplier Qualification Bulletin

History: ProChemTech International, Inc., (PCT) was **organized in 1987** as an innovative provider of water management programs for government, commercial, and industrial clients. With an experienced start-up group of people from the former Brockway Glass Company, PCT grew rapidly, reaching \$4 million in annual sales by 1997. Today PCT is a leading firm in the design and provision of innovative water management programs to address the many operating, economic, safety, and environmental problems generated by water use for heating, cooling, and process use. In the water management business, PCT is unique in that its innovation charter combines R&D with chemical treatment expertise with equipment/systems design and manufacturing.

The firm owns two chemical manufacturing plants, Apache Junction, AZ, and Brockway, PA, with headquarters, laboratories, and an engineering/equipment manufacturing plant also located in Brockway. Business operations are national in scope with sales/service offices in many metro areas, an international export trade is carried on in specific chemical products.

Business: ProChemTech is a privately held Delaware "C" corporation registered in the states of Arizona and Pennsylvania. Our Federal EIN number is 25-1722145, AZ tax number is 11-031610 F, PA tax number is 33057840, and DUNS number of 18-304-2597. Both the Apache Junction and Brockway chemical plants are USEPA registered facilities for production of biocides, facility numbers 58616-1-AZ and 586161-1-PA. PCT is licensed as a water management contractor in the State of Arizona, ROC 241899 KE, and has obtained ISO 9001:2000 registration for water management programs. All accounts payable, accounts receivable, purchasing, engineering, and policy are centralized at our Brockway, PA, office, WEB orders to orderentry@prochemtech.com.

Insurance: With an extensive customer base and business with firms ranging in size from well known Fortune 500 firms to small start-ups; requests for "proof of insurance" and requirements for naming customers on "Certificates of Insurance" are a large cost item for our carriers. Working with our insurance consultants, we have the following policies in effect on a nationwide basis to provide adequate insurance coverage at a reasonable cost. Due to the complexity of our multistate operations, we are unable to comply with any customer requests, or requirements, for different coverages or liability limits.

Commercial General Liability Coverage

- General aggregate limit: \$2,000,000
- Products and completed operations aggregate limit: \$2,000,000
- Personal injury and advertising injury limit: \$1,000,000 each
- Each occurrence limit: \$1,000,000
- Damages to premises rented by insured: \$50,000 each
- Medical expenses limit: \$5,000 each

Contractors Pollution Liability Coverage

- Aggregate limit: \$2,000,000
- Each pollution condition limit: \$1,000,000

Arizona Contractor's Bond: \$10,000

Professional Liability Coverage

Aggregate limit: \$2,000,000, each incident limit: \$1,000,000

Automobile Liability

AZ operations, combined single limit: \$1,000,000

PA operations, combined single limit: \$1,000,000

Workers Compensation

State of Arizona Workers Compensation Insurance - Statutory Limits

Commonwealth of Pennsylvania Workers Fund - Statutory Limits

References: PCT is often requested to provide business references, accordingly, we have compiled the following "general" reference list of some customers.

1. Keystone Powdered Metals, Inc.
1935 State Street
St. Marys, PA 15857
Bob Bauer, Engineer
Three (3) plants (2- PA and NC)
for BWT, CWT, and WWT since 1989
ElectroBrom unit at one plant
814-781-1591
2. Talking Stick Casino
101 at Indian Bend
Scottsdale, AZ 85271
Ruben Alcazar, Mt. Mg.
Large HVAC and closed loop system
Start-up to current date
ruben.alcazar@talkingstickresort.com
480-850-7788
3. Punxsutawney Hospital
Punxsutawney, PA 15767
Dana Hartle, Env. Services Director
Boiler system, closed loops, and cooling tower
system treatments since 1988
814-938-1889
4. Straub Brewery
303 Sorg Street
St. Marys, PA 15857
Melvin Meyer, Plant Manager
Boiler system, two cooling towers, and
pasteurizer programs since 8/87, **our first
customer.**
814-834-2875
5. Lewis and Hockenberry
Rich Valley Road
Emporium, PA 15835
Dale Lewis, Owner
Solid fuel boiler with electrical generator,
vacuum dry kilns with cooling tower since 1988
ElectroBrom unit on cooling tower
814-486-0359
6. Viad Corporate Center
Central Avenue
Phoenix, AZ
Ron Lloyd, Building Engineer
HighCycle program on large HVAC
Program in place since 2004
rdl@mcarthycook.com
602-452-0321
7. Glendale Elementary School District
7015 West Maryland Avenue
Glendale, AZ 85303
Bob Larson, Mt. Manager
HighCycle program in multiple HVAC locations
Programs in place since 2010
blarson@gesd40.org
623-237-6207

Technical: Professional expertise is demonstrated by the following patents, papers and articles:

- Application of a New, Environmentally Acceptable Cooling Water Treatment; 1983, International Water Conference
- A Program for Review and Selection of Water Treatment Suppliers; 1984, International Water Conference
- Use of Ultra Technologies in Small Drinking Water Systems; 1992, New Mexico Environmental Health Association
- Field Evaluation of Ozone for Cooling Tower Treatment; 1992, Association of Water Technologies
- Control of Oil/Grease in Glass Container Plant Effluent; 1993, Glass Industry
- Wastewater Reuse in Cooling Water Systems; 1994, Association of Water Technologies
- How to Select a Water Treatment Supplier; 1994/5, Association of Energy Engineers
- Method for Inhibiting Corrosion of Zinc in Aqueous Solutions; 1995, US Patent Office
- Recycling Treated Wastewater through Cooling Tower or Process Systems; 1995, American Institute of Plant Engineers
- Industrial Wastewater Zero Discharge, a Case History; 1996, Virginia Association of Municipal Wastewater Agencies
- Wastewater Treatment Chemicals; 1997, Association of Energy Engineers
- Design and Maintenance of Cooling Water Systems for Sintered Metals Plants; 1998-2002, Metal Powder Industries Federation
- Water and Wastewater Treatment, Conservation, and Reuse in an Integrated Circuit Packaging Plant; 1998, Water Environment Federation
- Water Recycle in an Integrated Circuit Packaging Plant; 1999, International Water Conference
- A New Bromine Releasing Solid for Microbiological Control of Cooling Water; 2001, International Water Conference
- Stabilized Bromine Biocides; Definitions, Chemistry, and Performance; 2002, Association of Water Technologies
- Successful Substitution to a Non-Hazardous Fluoride Wastewater Chemistry; 2002, Association of Electronics Manufacturers (Joint paper with Motorola, Inc.)
- **Method for Electrolytic Production of Hypobromite for use as a Biocide; 2003, US Patent Office, patent #7,927,470, issued 2011**
- Development of an On-site Hypobromite Generator; 2004, Cooling Technology Institute
- Non-Chemical Devices: Thirty Years of Myth Busting; 2004, International Water Conference
- Demonstration of an On-Site Electrolytic Hypobromite Generator at a Power Generation Station; 2004, International Water Conference
- **Colorant Tracer for Cooling Water Treatment Formulations, 2005, US Patent Office, patent #7,932,091 issued 2011**
- Basics of Cooling Water Treatment, Process Cooling and Equipment, August and September, 2005
- Use of Electrolytic Bromine as a Biocide, Association of Water Technologies, September, 2005.
- Method for Manufacture of N,N,dibromosulfamate Solutions, 2005, US Patent Office
- Reducing Workplace Hazards: A Non-Hazardous Biocide for Cooling Water Treatment, Environmental Health & Safety, May 2006.
- Boron Tracer for Boiler Water Treatment Formulations, 2006, US Patent Office
- New Biocide Delivery System for Cooling Systems, 2007, Pennsylvania Association of Environmental Professionals

- Electrolytic Bromine: A Green Biocide for Cooling Towers, 2007, Water Environment Federation
- A Green Option for Cooling Tower Biological Control, 2007, Process Cooling
- **Operation of Evaporative Cooling Towers with Minimal or No Blowdown, 2008, US Patent #7,595,000, issued 2009**
- Electrolytic Bromine: A Greener Biocide, 2008, Association of Water Technologies
- BlueTrak: Automatic Monitoring and Control of Cooling Water Products, joint paper with Advantage Controls, 2008, Association of Water Technologies
- **Composition for Operation of Evaporative Cooling Towers with Minimal or No Blowdown, 2009, US Patent #8,128,841, issued 2012**

Professional: Memberships are maintained in the following organizations:

American Chemical Society American Institute of Chemical Engineers
 Water Environment Federation American Institute of Chemists
 Association of Water Technologies
 American Society of Heating, Refrigerating, and Air-Conditioning Engineers

Staff members hold the following professional designations:

Certified Water Technologist (CWT) – two employees
 Registered Professional Engineer (PE), PA, NJ, and AZ
 Fellow, American Institute of Chemists (FAIC)
 Licensed Water and Wastewater Treatment Plant Operator: NJ and PA
 Certified NACE Corrosion Technician DOT-OSHA HazWop certificates

The majority (+75%) of our employees hold degrees from A.Sc. to Ph.D. in many technical fields such as analytical chemistry, ceramic science, mechanical engineering, and environmental science.

Our associated laboratory, Analytical Services, Inc., holds state and ISO certifications; and is equipped with the latest in equipment such as: atomic absorption spectrophotometer with carbon furnace, inductively coupled argon plasma atomic emission mass spectrometer, UV, visible, and infrared spectrophotometers, ion chromatograph, gas chromatograph/mass spectrometer, wet lab, and bio lab.

Projects: Systems, equipment, and contract jobs, up to \$1,300,000, have been completed for many well known firms and government agencies such as: General Electric, Campbell Soup Company, Motorola, Owens-Illinois Glass, Corning, SGL Carbon, Sony, Vlastic Foods, Intel, MuRata Electronics, AVX, L-3 Communications, Keystone Pressed Metals, PHB Die Casting, GKN Sintered Metals, Universal Stainless & Alloys, Drug Plastics and Glass, Osram Sylvania, PA Department of Environmental Protection, Spang Magnetics, Straub Brewery, St. Marys Carbon, International Crankshaft, US Army, and the USDA.

ProChemTech International, Inc.

“Innovation in Water Management”

Apache Junction, AZ, and Brockway, PA

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