

Daniel Christodoss, PhD, PE

Education:

PhD, Civil Engineering, University of Tennessee, 1990

Master of Science, Public Health Engineering, Bharathiyar University, 1986

Bachelor of Science, Civil Engineering, Madras University, 1980

Registration:

Professional Engineer, TX, No. 86016, 1999

General Summary

Dr. Christodoss has over 30 years of engineering experience including infrastructure asset management, design, construction and operations management of water distribution and treatment plants. His career highlights include four Awards: (1) National Pollution Engineering Award, (2) Texas Environmental Excellence Award, (3) Air Force Base Environmental Excellence Award and (4) AWWA Award for his work in water quality.

Water Distribution and Water Treatment Plant Projects:

- Asset, Design and Construction Manager for over 100 water plants at Southwest Water Company which included both surface and groundwater systems. Designed water treatment plant modifications, potable water distribution lines, performed water well evaluations and rehabilitation, replaced well supply lines and managed rehabilitation inspection of elevated storage tanks. Managed consultant design and construction of capital improvement projects.
- Program manager at Waco Water Utilities for a water distribution network with over 800 miles of pipelines including 42" RCCP.
- Design of a 12 MGD water treatment plant expansion with new biofilter for TRA Huntsville, and utility operations engineer for a 130 MGD WTP expansion at Waco Water Utilities.
- State Water and Drainage Board Engineer for design review and construction oversight of a 30 MGD water treatment plant (WTP) at an elevation of 2,500 ft to convey and provide drinking water to a city in the valley (40 miles away) along with the construction of a 2-level master storage elevated city-wide distribution reservoir.
- At Southwest Water Company, Kelly AFB and for TRA: Designed HDPE (6"), PVC (12") and RCCP (30") pipelines, and performed preliminary design for increasing the water distribution system capacity to the northwest (NW) region of City of Huntsville with a parallel 30 and 42 inch 10 mile long transmission main and a new NW booster pump station.
- Designed an integrated high efficiency vertical turbine 12 MGD pump station (PS) mounted on the roof of a clear-well to save new high-service PS facility costs for the TRA WTP expansion to 12 MGD.
- Presented a paper at the 2012 National EUEC on "Implementation of an Automatic Meter Reading system at Unprecedented Record Time for Diversified Water Utilities in Texas" for apparent water loss reduction in water distribution systems at Southwest Water Company.

RESUME

- Southwest Water Company: Designed a zero cost innovative technology for in-situ removal of THMs in purchased surface water at Pottsboro, to attain DBP compliance by modifying existing process configuration.
- Project manager and utility design engineer for new waterlines/relocations, WTPs, new and existing storage and pressure tank rehabilitations at Southwest Water Company.