

# Frank Bush

---

|                           |  |                                     |                   |
|---------------------------|--|-------------------------------------|-------------------|
| Summary of qualifications | Over 30 years of pump engineering and service experience specializing in design, application, and service support for pumps in power generating facilities.  |                                     |                   |
| Education                 | 1974   | Penn State University               | State College, PA |
|                           |  | AS Degree in Mechanical Engineering |                   |
| Professional experience   | ProPump Services, LLC  |                                     | Phillipsburg, NJ  |
|                           | 2001-Present   |                                     |                   |
|                           | Senior Pump Specialist   |                                     |                   |
|                           | Provides technical service support on boiler feed, reactor feed, and boiler circulating, and other various water pumps to power generating customers including field testing, problem solving, root cause analysis, vibration analysis, maintenance recommendations, pump reliability and system review, and pump training.  |                                     |                   |
|                           | Ingersoll-Dresser Pump Company   |                                     | Phillipsburg, NJ  |
|                           | 1993 - 2001  |                                     |                   |
|                           | Pump Improvement Engineer  |                                     |                   |
|                           | Responsible for field pump testing, repairs, upgrades, and technical support. Specialized in boiler feed and other high energy applications. Performed service center duties, application and implementation, and sales training for North America repairs, upgrades, and technical services. Coordinated and applied engineering and customer service efforts for the boiler circulating water seal modification program and boiler feed pump enhancements. |                                     |                   |
|                           | 1987-1993  |                                     |                   |
|                           | Field Service Engineer   |                                     |                   |
|                           | Supported and performed installation, start-up, and troubleshooting of boiler feed, reactor feed, and boiler circulating water pumps as well as other high pressure applications. Conducted cross-training to service personnel on the Ingersoll-Rand, Worthington and Pacific barrel pump designs, along with various other Utility plant pumps.  |                                     |                   |
|                           | 1974 – 1993  |                                     |                   |
|                           | Product Design Specialist  |                                     |                   |
|                           | Responsible for designing, order processing, procurement, manufacturing, assembly, and factory testing for boiler feed, reactor feed, and boiler circulating water pumps. Supported resolution of field problems on installed equipment  |                                     |                   |
| Publications              | Co-Author ASME paper, NCA-Vol. 27 titled “Field Demonstration of a Boiler Feedwater Pump Upgraded to Reduce Vibration and Acoustic Emissions without Compromising Performance” presented at the ASME 2000 Conference   |                                     |                   |
| Software Skills           | Excel, PowerPoint, Word, Lotus Notes   |                                     |                   |
| Accreditations            | Total Quality Six Sigma Yellowbelt Certification   |                                     |                   |