



JOHN C. PFEIFFER

- EDUCATION:** B.S. Degree in Electrical Engineering, 1967 Christian Brothers University, Memphis, Tennessee
- TRAINING:** Project Methodology - Safety - Quality
Lessons in Professional Liability, Contract Review Workshop
System Safety
Process Plant Startup
National Electrical Code (Several)
CEO Strategic Planning Program
Plus many others
- LICENSES:** Registered Professional Engineer, Electrical, Kentucky, Indiana, Tennessee and Ohio
- PATENTS:** Title - "Device for Testing Semiconductors and other Electrical Components" No. 3,825,828

Title – "A Golf Simulator", Patent Pending - Co-authored
- PUBLICATIONS:** "Arc Flash" – 2008, District Cooling Best Practice Guide, International District Energy Association

"Arc Flash Calculations – An Important Tool in Fire & Electrical Accidents" July 2005, Fire & Arson magazine

"Understanding Project Execution Methods" Sept. & Oct. 2004, Intech magazine

"What is Arc flash?" 2004, The Kentucky Manufacturer & Contractor, The Ohio Manufacturer & Contractor & Mike Holt Newsletter & Website

"Principles of Electrical Grounding" March, 1999, Conference Proceedings, 1999 Cincinnati Automation Expo

"How To Manage Automation Projects", Sept., 1995, A-B Journal

"Process Control through Computer/Programmable Controller



Pfeiffer Engineering Co., Inc.

... the art of engineering

Integration", 1981, U.S. ManTech Journal

"Process Safety & Reliability through Process Control Computer/Programmable Controller Interconnection," 1976, Conference Proceedings, Instrument Society of America, presented at ISA-76 International Conference & Exhibit, Houston, Texas

SEMINARS Presented: Changes to the 2002 Edition of the National Electrical Code
Principles of Electrical Grounding
Arc Flash/Arc Blast

ORGANIZATIONS: Institute of Electrical & Electronic Engineers, Life Member
Instrument Society of America
National Society of Professional Engineers
National Fire Protection Association
International Association of Arson Investigators

EXPERIENCE: Over forty years of engineering experience covering the following areas; computer system development, programming, installation and startup; motor process equipment control system design; chemical plant design, construction, and startup; power system design, analysis, and testing; and electronic equipment design.

1/81 to Present PFEIFFER ENGINEERING CO., INC., Louisville, Kentucky.
Founded and began operation of company to provide professional service to industry

Title: President & Chairman of the Board

Duties: Chief Executive Officer and Financial Manager of company.

Project Manager on major projects, develops company's technical standards and provide forensic engineering services

The Company: Pfeiffer Engineering has been involved in the design of facilities, processes and systems for industrial, municipal, and institutional customers in this region of the country

Automation: Engineering, software development and system integration of machines, process and overall plant automation systems for manufacturing equipment, material handling, batch and continuous process control, facility utility systems, and power monitoring

Communications: Develop plant wide communications systems for production monitoring and control

Electrical: Perform basic electrical system designs, lighting, emergency systems, as well as, complex industrial control systems, motor control, large motor control, dc and variable frequency motor speed control

Power Distribution: Perform load studies, energy management studies, harmonic distortion analysis, design of electrical distribution system from 120v to 13,800v systems, perform short circuit studies, develop protection device coordination, power factor correction, grounding and lightning protection systems

Facility: Assist in facility planning, boiler control, waste treatment facility design and control, fire detection and suppression systems, energy management and evaluation of hazardous areas

Instrumentation: Complete instrumentation design services for commercial, institutional, and industrial monitoring and control.

Process: Process layout, P&ID development, capital project estimating

Energy Management: Load studies, load shedding, power factor correction, evaluation of applying variable frequency drives, power monitoring.

10/73 to 1/81

ICI AMERICAS, INC., Charlestown, Indiana (Subsidiary of Imperial Chemical Industries, Ltd., London, England).

Title: Senior Process and Development Engineer

Duties: Overall project responsibility for all electrical systems for a new \$30 million explosive production facility, construction completed February, 1979. Primary responsibility was the development and coordination of the process control system and instrumentation for the totally automated and remotely controlled production facility. Responsibilities included the selection and implementation of the process control system, development of process sequences, control strategy, and the development of specifications and scopes of work for the electrical, instrumentation, and utility portions of the plant construction contract. Developed the plant startup project including schedules, budget, personnel requirements, and organized the startup team. Managed the project during the commissioning phase while continuing to manage the process control system.

Commissioning phase completed July 1, 1979, on schedule.

Concentrated on the process control system once the plant startup progressed to the point where inert materials were entered to begin

the initial production runs and portions of the plant were ready for full computer control.

Entered the project during the initial design phase, continued through the construction and commissioning phases and on into the initial startup phase. The control system consisted of a Foxboro 2/30 process controller, Foxboro Interspec/Spec 200 analog control system and Modicon programmable controllers.

7/72 to 10/73

RAY PFEIFFER ASSOCIATES, INC., Louisville, Kentucky.

Title: Engineer

Duties: The design and development of low cost electronic test equipment. Coordinated the equipment assembly with component vendors and assembly companies. Also the development, coordination and sale of special purpose industrial products.

6/71 to 6/72

C & I GIRDLER, INC., Louisville, Kentucky (Subsidiary of the Bechtel Corporation).

Title: Engineer

Duties: The design of electrical control systems for industrial process plants. Designs included relay and solid-state controls, use of programmable controllers, and interface systems to digital control systems. Duties included performing initial studies of production facilities, field investigation, layout of motor control centers, power distribution systems and assisted in cost estimating.

8/67 to 4/71

SPERRY RAND CORPORATION, Sperry Systems Management Division, Great Neck, N.Y.

Title: Field Engineer II

Duties: The installation, checkout, maintenance and programming of Polaris/Poseidon submarine navigation systems which included digital computers, computer interface equipment, special purpose digital equipment and other associated navigation equipment. Lead engineer on installation projects. Supervised engineers, technicians and electricians.