

JERRY W. BLOUGH, PE

Senior Engineer I

PROFILE

Mechanical engineer with over 40 years experience in design engineering, project management and power plant maintenance. Proven ability to handle multiple projects and accomplish project goals within budget and schedule.

EDUCATION

Bachelor of Science Degree – Mechanical Engineering, University of Pittsburgh, 1970

CERTIFICATIONS/TRAININGS/AFFILIATIONS

Professional Engineer No. PE-036502-E, Pennsylvania, 1987

Engineer-in-Training Certificate, Pennsylvania, 1986

Management Seminars:

- Teamwork and Leadership Program, Senn-Delaney
- The Engineer as Manager, University of Pittsburgh, Graduate School of Business

Engineering Design Courses:

- Water, Wastewater, and Hazardous Waste Treatment
Earned 2.16 Continuing Education Units from George Washington University
- Centrifugal Pumps - Characteristics and Applications, George Washington University
- Modern Valve Design and Applications, ASME

Contracts Administration Seminars:

- The Art of Negotiation, The Condor Group
- Contract Claims and Litigation Avoidance, The Condor Group

Completed welding training for supervisors, GPU continuing education

Member of American Institute for Steel Construction

PROFESSIONAL EXPERIENCE

Sr. Engineer/Project Manager (2006-Present)

Cambria Consultants, Inc., Johnstown PA 15904

- Design Engineer, Project Engineer and Manager of numerous electric generation projects

Self-Employed Residential Contractor (2004-2006)

Sr. Manufacturing Engineer (1999-2004)

Hedstrom Corporation, Inc., Bedford PA 15522

- Process, Fabrication & Equipment Design Engineer for high volume manufacturing of commercial children's products
- Served as Plant Maintenance Engineer on an interim basis for the 475,000 square foot manufacturing facility

Project Engineer Sr. 1 (1994-1999)

GPU/Generation Corporation (formerly Penelec), Johnstown, PA 15907

- Project Engineer, Design Engineer and Manager for numerous electric generation projects

Design Engineer Sr. 1, Design Engineer III (1982-1994)

GPU/Generation Corporation (formerly Penelec), Johnstown, PA 15907

- Design Engineer for numerous electric generation projects

Design Engineer (1969-1982)

US Steel Corporation, Johnstown, PA 15905

- Design Engineer of OEM machinery, industrial cars and material handling equipment for the steel and raw material industries. Responsibilities also included technical oversight of in-house manufacturing.

Management Trainee (1968-1969)

US Steel Corporation, Johnstown, PA 15905

- Worked in various departments including Industrial Engineering & Maintenance

Main Frame Computer Operator (1969)

US Air Force Reserve, Bolling Air Force Base, Washington, DC (1969)

Summer Trainee (1967)

US Steel Corporation, Johnstown, PA 15905

- Worked as a Junior Industrial Engineer performing cost analysis and performing cost standard time studies

PARTIAL PROJECT EXPERIENCE

Cambria Consultants, Inc.

Designed and prepared construction packages for numerous power plant upgrade projects at Seward, Keystone and Conemaugh Electric Generating Stations owned by Reliant Energy. Performed numerous homemade tooling reviews for special purpose tooling fabricated by station operations and maintenance personnel.

Seward

- Addition to Seward coal handling dust collection system incorporating an additional booster fan and ductwork
- Outside air intake for burner cooling air blowers
- Roadway fugitive dust emission spray system
- Relocated economizer vent valves for operator access
- Hydrogen cooling water control valve bypass
- Additional clarified water pump and piping system
- Boiler feed pump motor enclosure modification to existing overhead traveling hoist
- Homemade tooling reviews

Keystone

- Homemade tooling reviews
- Vacuum standpipe system

Conemaugh

- Aux boiler lifting spreader beam
- Coal handling shaker replacement support structure
- Homemade tooling reviews
- IWT blower maintenance hoist beam & structure

- Mobile Maintenance – Brookville Central Maintenance Facility
- Homemade tooling reviews

Niles

- Homemade tooling reviews

Hedstrom Corporation

Served as manufacturing engineer and design engineer to plant in-house equipment fabrication staff to develop and manufacture unique tubing processing equipment for a high volume environment. Prepared cost/benefit analysis and developed capital expenditure documentation to secure funding from corporate offices. Prepared specifications, evaluated bids, and expedited outside purchase requirements.

GPU Generation

Provide technical, project management and construction support to the utilities generating facilities, most recently the Homer City Generating Station. Responsible for various projects including: Primary Air Heater Upgrade, Pendant Reheater and Inlet Header replacement, Flash Tank Replacement, multiple Feedwater Heater replacements, Main Turbine Lube oil skid upgrade, Hydrogen Seal Oil filtration, replacement of various plant process control valves to latest technology, process piping replacement and cooling tower water waste heat recovery to provide building heat to the adjacent 25 acre greenhouse. While both large and small projects were at various GPU facilities, am especially proud of the \$15 million Shawville Station Final Wastewater Treatment System that treats all of the sites wastewater. This project won GPU an environmental honor from Renew America. This project also served as the basis for a similar system installed at the Keystone Generating Station.

US Steel

Tenure at US Steel centered on the design and manufacture of machinery, industrial cars, and material handling equipment that served the steel and raw materials industries. The following types of metal processing machinery and material handling equipment were designed under my direction: Continuous casting tundish cars, slag pot transfer cars, battery powered transfer cars, rubber tired transfer trailers, billet finishing process handling tables/transfers/bundle separators, pipe manufacturing process handling conveyors/tables, pipe NDT inspection equipment, reheat furnace loading/unloading equipment, electric overhead traveling crane modifications coal and coke handling equipment, and foundry process equipment.