



GEORGE VASSIL

SUMMARY

Forty years of EPC execution experience in project management and project engineering. Extensive background in front-end design packages, EPC projects, program management and consulting services (refining, chemicals and pharmaceuticals).

PROFESSIONAL EXPERIENCE

LXDE Corporation **2005 - Present**
Monroe Township, New Jersey

Consultant

Consultant to engineering and construction industry.

Foster Wheeler USA Corporation **1962 - Present**
Clinton, New Jersey

Project Director

1990 - Present

Responsible for all phases of contract execution for large projects. This was carried out through direct management or by supervision of assigned project managers. This included engineering, detail design, project control, procurement and construction. Directing the activities of all Foster Wheeler personnel assigned to the project and acting as primary contact point with the client. Accountable to the client and to Foster Wheeler's executive management for the successful, on-time and on-budget completion of the projects. Projects included:

- Development and commercialization of acid hydrolysis technology for the conversion of biomass into Levulinic acid for Penor/Biofine L.P.
- Technical due diligence of process; scale-up from pilot plant operation; basic engineering; EPC of the commercial plant.
- Refinery upgrade valued at \$240 MM at the ISLA Refinery. Project includes nine new and six revamp units plus utilities and off sites.
- Front-end design, EPC inquiry preparation, contractor selection and program management of EPC.
- Foster Wheeler representative on the Construction Industries Institute (CII) team for Pre-Project Planning and use of the PDRI.
- Project consulting services for Alyeska Pipeline services Company.
- Consulting services for Uzbekneftegas, Tashkent, and Uzbekistan. Evaluation and estimates for the Bukhara Refinery and Kodumalak Gas Injection Facility.
- Program Director for the expansion and upgrade of multiple chemical manufacturing facilities for International Specialty Products (formerly GAF Corp).
- Project Director for multiple Eli Lilly projects valued in excess of \$500MM
- General purpose, high-containment bulk pharmaceutical chemicals facility at \$300 MM TIC. Provided front-end design and definitive estimate (ATQ Project).
- Multipurpose high-containment bulk pharmaceutical chemicals facility valued at \$170 MM TIC. Provided conceptual design, front-end design, detailed engineering, design and procurement services (T-29 Project).

- Bulk pharmaceutical chemicals revamp valued at \$10 MM TIC. Provided detail design and procurement services (T-27 Project).
- Electrical system expansion at pharmaceutical complex in Lafayette, Indiana valued at \$7 MM TIC. Provided detail design and procurement services.
- Automation upgrade of pharmaceutical complex. Provided 30,000 person-hours of automation services.
- Master plans for site development at Eli Lilly production complexes.
- Wastewater treatment facility for Hess Oil Company, St. Croix, VI, valued at \$37 MM TIC. Provided front-end design, detailed design, and procurement services.

Project Manager

1982 - 1990

Responsible for all phases of contract execution including engineering, detailed design, project control, procurement, and construction. Directed the activities of all Foster Wheeler personnel assigned to the project and acted as primary contact with the client. Accountable to the client and to Foster Wheeler's executive management for the successful, on-time and on-budget completion of the project. Projects included:

- Supercritical CO₂ extraction-coffee decaffeination facility for Maxwell House Division of General Feeds. \$100 MM TIC. Provided front-end design and EPC services.
- Supercritical CO₂ hops extraction design and estimate for J.I. Haas Co. \$25 MM TIC.
- Multipurpose bulk pharmaceutical chemicals facility for Ciba-Geigy Corporation. \$100 MM TIC. Provided front-end, detail design and procurement services.
- Site selection surveys for Ciba-Geigy Corporation; examined locations in the U.S.A., Canada, and Puerto Rico.
- Chemical plant revamps for GAF Corporation. Provided detail design services, \$10 MM TIC.
- Environmental consulting for Pepper, Hamilton, and Scheetz (law firm).
- CCR revamp for Coastal States. \$25 MM TIC. Provided detail design services.
- Flexicoker study and execution plan for Corpoven S.A., El Palito Refinery, Venezuela.
- Semi-works shale oil plant (350 T/D) for Chevron U.S.A.
- Salt Lake City, Utah project. \$180 MM TIC. Provided front-end design detail design, procurement services and construction support.

Process Engineering Manager

1970 - 1982

Responsible for the supervision of all project engineering, specialty engineering, and design activities on assigned projects. Projects included:

- Bulk vitamin C plant and vitamin C derivatives plants for Hoffmann-La Roche Inc. \$80 MM TIC. Provided front-end design, detail design and procurement services.
- ICN reforming project (powerformer and hydrofiner units) for Exxon Co. U.S.A. Bayway Refinery. \$150 MM TIC. Provided front-end design and procurement service.

Project Engineer

1970 - 1978

Responsible for the performance of project engineering on assigned projects, including development of plot plans, equipment lists, engineering flow-diagrams, job specifications, and requisitions (equipment, material, and subcontracts). Projects included:

- Synthetic natural gas (SNG) plants for Public Service Electric & Gas Co. - including construction and start-up responsibilities.
- SNG plant project, which entailed Stretford sulfur recovery, hydro-desulfurization, gasification (CRG), hydrogen and natural gas purification units for Philadelphia Gas Works.

- Coal liquefaction-process development unit (syntboil) for the U.S. Energy Research and Development Administration (ERDA).
- Ammonia plant for Sherritt Gordon Mines, Ltd.
- Automobile exhaust catalyst plant for Englehard Industries.
- Bulk pharmaceutical chemicals facility for Merck & Co.
- Relocation of a pharmaceutical plant from New Jersey to Puerto Rico for Smith, Miller and Patch Company.

Process Design Engineer

1966 - 1970

Prepared process design calculations, economic studies/evaluations, process/engineering flow diagrams, instrument/equipment specifications.

- Herbicide pilot plans for Geigy Chemical Company, design, and onsite operations.
- Cyanuric chloride section of an herbicide plant for Geigy Chemical Company.
- Design studies for municipal waste solids disposal, catalytic cracking, catalyst regeneration, sulfuric acid alkylation, hydrocarbon pyrolysis for ethylene propylene, and isopropyl alcohol.
- Feasibility studies for gasification of caking coal for U.S. Bureau of Mines.

Process Development Engineer

1962 - 1966

- Process design and start-up of 10 TPD semi-works and 100 TPD titanium dioxide production facilities for National Lead Company.

EDUCATION

M.S. (ChE), Newark College of Engineering
 B.S.E (ChE), Newark College of Engineering

PROFESSIONAL AFFILIATIONS

American Institute of Chemical Engineers
 International Society of Pharmaceutical Engineers
 Registered Professional Engineer in New Jersey

PATENTS

U.S. Patent #3,446,579
 Process for continuously producing gaseous aluminum chloride



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