



JAMES E. BORTZ, P.E.



Mr. Bortz is a Senior Executive Consultant with Long International. He has over 25 years of process engineering and project management experience including budgeting, cost estimating, cost control, schedule preparation, schedule analysis, change control, change order analysis, and all aspects of contractor management. Moreover, Mr. Bortz has expertise with plant design, construction, and operation, constructability reviews, expert analyses, litigation support, and dispute resolution. His industry expertise includes oil, gas, energy, chemical, paper mill, and biofuels projects. Prior to joining Long International, Mr. Bortz held positions as a Senior Project Manager, Senior Process Engineer, Engineering and Maintenance Manager, and Senior Production Engineer with engineering, chemical, biofuels, and paper companies, including ENGlobal, Harris Group, Range Fuels, Tronox, International Paper, Arizona Chemical, and Dow.

EDUCATION

B.S., Chemical Engineering, Colorado State University, 1991

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer, Colorado (No. 45896)

Registered Professional Engineer, Illinois (No. 062.067823)

PROFESSIONAL AFFILIATIONS

American Institute of Chemical Engineers

TECHNICAL EXPERIENCE

Representative U.S. and international experience includes:

- Cost estimating and quantum analysis
- Schedule development and review
- Constructability reviews
- Process hazard analysis (PHA)
- Field construction supervision
- Contract and change order preparation and review
- Litigation support including rebuttal analyses, deposition, and subject matter expert reviews
- Process engineering, including process flow diagrams (PFDs), piping and instrumentation diagrams (P&IDs), equipment specifications, and hydraulic calculations
- Chemical, oil, gas, and biofuels project management from initial design through startup and operation
- Final project reconciliation including creation, execution, and closure of punch lists, and pre start-up safety review (PSSR) action items for both the owner and contactor
- Root cause analysis training including incredible chain of events links and fault tree analysis
- Development of assembly and disassembly manuals, operational guidelines, commissioning, and start-up documents