



CHRISTOPHER J. SABLE



Mr. Sable is an Executive Consultant with Long International and has 25 years of experience in various aspects of project and construction management, CPM schedule development and implementation, project schedule risk analysis, construction project auditing, construction claims analysis, and mediation, arbitration, and litigation support. His qualifications include forensic schedule analysis, cost estimating, change order analysis, productivity analysis, field supervision, and subcontractor scope development and monitoring. Mr. Sable's diverse expertise has been obtained through involvement on numerous projects including LNG, floating production systems (FPSOs), petroleum refineries, tank farms, gas supply expansion, semi-submersible oil platforms, natural gas floating platforms, peaker and combined cycle power plants, cement storage facilities, processing plants and terminals, public and commercial buildings, and transportation.

EDUCATION

B.S., Civil Engineering, Clemson University, 1994

PROFESSIONAL AFFILIATIONS

Project Management Institute

TECHNICAL EXPERIENCE

Representative U.S. and international engineering and construction technical experience includes:

- Construction claims analysis, preparation, and defense
- Project baseline planning, CPM schedule development, status updating, and performance measurement
- Delay and acceleration analysis for time extension and compensable damages entitlement
- Productivity analysis
- Project status assessment
- Cost estimating
- Project controls services
- Project schedule risk analysis
- Field construction supervision
- Arbitration proceedings and litigation support

PROJECT EXPERIENCE

Mr. Sable's project and claims experience includes the successful completion of engagements for general contractors, engineering companies, and law firms. Representative project experience includes the following:



Oil & Gas, Chemical, and Mining Projects

- Analyzed a contractor's change orders, progress schedule, subcontractor performance and contracts, and various contract documents on a \$60 billion 15 MTA LNG project in Australia. The scope of work included a detailed CPM schedule analysis on extension of time, disruption, and acceleration claims. Provided project schedule risk analysis through qualitative and quantitative risk analysis. Authored and presented executive summaries, and conducted in-person meetings with company executives to discuss findings. Coordinated with outside consultants for an arbitration hearing.
- Reviewed a contractor's change orders, progress schedule, subcontractor performance and contracts, and various contract documents on a US\$14.5 billion 20 MTA LNG project in Freeport, Texas. The scope of work included a detailed CPM schedule analysis for an extension of time caused by a *force majeure* event, review of a disruption and acceleration claim for a *force majeure* event, and development of a delay for start-up claim submitted to the insurers. Assessed contractor's schedule prior to *force majeure* event to determine the accuracy of the schedule, and corrected the schedule to represent true projected completion information based upon project records.
- Analyzed a contractor's change orders, progress schedule, subcontractor performance and contracts, and various contract documents on a \$10 billion 4.3 MTA LNG project in Australia. Developed a claim against the contractor and outlined the owner's risks.
- Analyzed a contractor's \$186 million delay and disruption claim against the owner for the installation of approximately 81 miles of subsea pipeline carrying gas by-products connecting to nine respective offshore platforms offshore in Nigeria, Africa. The scope of the work included a detailed CPM forensic schedule analysis to determine delay and acceleration responsibility.
- Assessed a contractor's delay and disruption claim against the owner on a chemical complex in Jubail Industrial City, Saudi Arabia. The scope of the work included a detailed CPM forensic schedule analysis to determine delay and acceleration responsibility.
- Prepared an integrated commissioning schedule for the connection of a FPSO vessel to the well head platform located northwest of Darwin, Australia. The scope of work included continual development of the integrated commissioning schedule. Provided qualitative and quantitative project schedule risk analyses. Authored and presented executive summaries, and conducted in-person meetings with company executives to discuss findings.
- Analyzed a contractor's change orders against the owner of a petroleum refinery in Trinidad and Tobago. The project involved a C⁵C⁶ Isomerization Complex, a new heavy Naphtha Hydrotreater and Continuous Catalytic Regeneration Platformer Unit, a C³C³ Alkylation Unit, a Sulphuric Acid Regeneration Plant, a Fluidized Catalytic Cracking Unit upgrade, a Gas Concentration Unit (GCX), a LPG Caustic Merox (Extractive) Treater, and offsite facilities modifications. The scope of work included a detailed CPM forensic schedule analyses to determine delay, added scope, and acceleration responsibility based on U.S. and English contract law. Implemented project controls procedures to analyze the contractor's progress. Conducted change order negotiations with the contractors. Developed liquidated damage claims and counterclaims against the contractors.
- Reviewed project controls standards as set forth in the contract, and provided recommendations to the contractor on an iron ore mining project in Western Australia. Reviewed contract schedule development, and provided recommendations.
- Analyzed project status on a gas-to-liquids plant in Trinidad and Tobago. Three distinct process sections for this plant included: SynGas Manufacture, FT reactors, and Product Work-up. The Product Work-up created ultra-low sulfur diesel, naphtha, and LPG. The scope of work included analyzing missing work to complete the plant, and development of a restart project schedule.



- Performed forensic schedule and claims analysis on a natural gas floating platform in Trinidad and Tobago. The scope of work included a detailed CPM forensic schedule analysis to determine delay and acceleration responsibility based on U.S. and English contract law. Prepared counterclaims against the contractor's claims.
- Performed forensic schedule and claims analysis on a tank farm in Edmonton, Alberta, Canada. The scope of work included a detailed CPM schedule analysis to determine delay and acceleration responsibility based on contract law. Prepared counterclaims against the contractor's claims.
- Conducted a schedule quality assurance review of the engineering, procurement, prefabrication, modularization, installation, and construction elements of the Level III Schedules for a gas supply expansion project in Nigeria.
- Performed a forensic schedule and claims analysis on a semi-submersible platform that was fabricated in Norway and installed in the Gulf of Mexico. The scope of work included a detailed CPM schedule analysis to determine delay and acceleration responsibility based on contract law. Prepared a counterclaim against the contractor's claims.
- Analyzed a contractor's US\$21 million delay and disruption claim against the owner of a 4x2 combine cycle power plant in Romoland, California. The scope of work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Analyzed a contractor's US\$8 million delay and disruption claim against the owner of a 4x2 combine cycle power plant in Fairfield, Texas. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Reviewed a contractor's US\$9 million delay and disruption claim against the owner of a 4x2 combine cycle power plant in Eunice, Louisiana. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Analyzed a contractor's US\$22 million delay and disruption claim against the owner of a 3x1 combine cycle power plant in Baytown, Texas. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Assessed a contractor's US\$8 million delay and disruption claim against the owner of a 2x1 combine cycle power plant in Redding, Pennsylvania. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Analyzed a contractor's US\$900,000 delay and disruption claim against the owner of a 1x1 peaker power plant in Yuba City, California. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Analyzed a contractor's delay and disruption claim against the owner of a 4x2 combine cycle power plant in Athens, New York. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Reviewed a contractor's delay and disruption claim against the owner of a 2x1 combine cycle power plant in Boston, Massachusetts. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Analyzed a contractor's delay and disruption claim against the owner of a 3x1 combine cycle power plant in Philadelphia, Pennsylvania. The scope of the work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- On behalf of the owner, furnished CPM scheduling services for a 2x1 combined cycle power plant in San Jose, California.



- Analyzed a contractor's delay and disruption claim against the owner of a 1x1 combined cycle power plant in Alberta, Canada. The scope of the work included a detailed CPM forensic schedule analysis to determine delay and acceleration responsibility.

Transportation and Waterway Canal Projects

- Analyzed a contractor's US\$1.2 billion delay, disruption, and acceleration claim against the owner for the installation of the concrete construction details for the Third Set of Locks on the Panama Canal. The scope of the work included a detailed CPM forensic schedule analysis to determine delay and acceleration responsibility. Developed an expert report based upon findings for the International Court of Arbitration of the International Chamber of Commerce.
- Provided CPM scheduling services for a highway contractor on a US\$14 million highway interchange expansion project in Falcon, Colorado.
- Analyzed a delay and disruption claim on the construction of a widening project located in Westminster, Colorado. The scope of work included a detailed CPM schedule analysis to determine delay and acceleration responsibility.
- Analyzed a delay and disruption claim on the engineering and construction of a Courtney Campbell Causeway Project in Tampa, Florida.
- Managed contractor's baseline schedules on the US\$100 million Palm Beach International Airport Interchange. Prepared contractor's claim against owner due to unforeseen conditions, owner delays, and productivity issues.
- Oversaw highway, interchange, and bike trail design on the E-470 toll way located in Denver, Colorado.
- Managed various highway interchange designs in Dayton Beach, Port St. Lucie, and West Palm Beach, Florida.
- Analyzed a contractor's delay and disruption claim against the owner of a rail system in Brisbane, Australia. The scope of work included a detailed CPM forensic schedule analysis to determine delay and acceleration responsibility. Negotiated with the contractor to achieve an equitable solution.

Building Projects

- Analyzed schedule and cost overruns on the Blatch-Preston Complex Project in Doha, Qatar for the contractor. The Blatch-Preston Complex Project is a dormitory facility with warehouse facilities on the Al Udeid Air Base in Qatar.
- Furnished CPM scheduling services for a building contractor on a more than US\$40 million project involving multiple high-rise condominium complexes in Miami and West Palm Beach, Florida.
- Furnished CPM scheduling services for a building contractor on a luxury apartment home project in Celebration, Florida.
- Provided CPM scheduling services for a building contractor on the High Museum of Art Expansion Project in Atlanta, Georgia.
- Furnished CPM scheduling services for a building contractor on the Dade County high School in Miami, Florida.
- Performed CPM scheduling services for a building contractor on a medical laboratory project in Atlanta, Georgia.
- Developed contractor's baseline schedule and performed updates, managed change order requests, and provided general site supervision on a cement storage and distribution center project in Mobile, Alabama.



- Managed change order requests, and performed general site supervision on an out-patient MRI medical clinic project in Austell, Georgia.
- Oversaw change order requests, and performed general site supervision on various tilt-up concrete warehouse and office build-out projects in Atlanta, Georgia.
- Developed contractor's baseline schedule and performed updates, managed change order requests, and performed general site supervision on a US\$1 million cement storage facility project in Mobile, Alabama.
- Managed change order requests, and performed general site supervision on an out-patient MRI medical clinic project in Austell, Georgia.

PROFESSIONAL EXPERIENCE

Long International, Inc.

Sparta, Tennessee (June 2007 to Present)

As an Executive Consultant with Long International, Mr. Sable provides claims analysis services on projects for both owners and contractors. Specific responsibilities include CPM schedule delay and acceleration analysis, document database development, change order impact analysis, issue identification, correlation of impacts to schedule activities, productivity evaluations, claims preparation, damages quantification, and arbitration/litigation support.

Demonstrated Performance, Inc.

Sacramento, California (January 2007 to April 2007)

As a Consultant, Mr. Sable provided claims analysis services on a combined cycle power plant to ascertain responsibility of the parties for late project completion and acceleration compensation.

A.W. Hutchison/Navigant Consulting

Atlanta, Georgia (February 2003 to January 2006)

Mr. Sable served as a Project Manager. In this role, he performed CPM scheduling, time delay studies, productivity evaluations, claims analysis, cost and schedule evaluations, on-site management, cost-to-complete evaluations, and other related technical services.

Calpine, Inc.

Sacramento, California (November 2001 to September 2002)

As a Contract Claims Scheduler, Mr. Sable performed detailed independent analyses and forensic engineering on various combined cycle power plants to ascertain responsibility of the parties for late project completion and acceleration compensation.

Modern Continental South, Inc.

West Palm Beach, Florida (August 2000 to August 2001)

Mr. Sable served as a Project Scheduler. In this role, he developed, maintained, and updated a 2,400 activity, resource-loaded CPM schedule for a \$100 million highway interchange highway project. In addition, he produced weekly updates for the subcontractors, superintendents, and Department of Transportation representatives. He also tracked quantities, production rates, and costs for project activities, and produced



mitigation schedules. Lastly, Mr. Sable developed a detailed claims analysis due to unforeseen conditions, managed owner delays and productivity issues, scheduled materials delivery and subcontractors' tasks.

Ordner Construction

Lawrenceville, Georgia (March 1999 to March 2000)

As Assistant Project Manager, Mr. Sable provided document control and field supervision, and developed and reviewed subcontractor scopes of work. Moreover, he scheduled material deliveries and subcontractor tasks. Mr. Sable also produced closeout documents for a 40,000 sf. out-patient/clinic medical facility, an 110,000 sf. warehouse/tenant office, and a 16,000 sf. multi-use office building. In addition, he produced estimates and bids for medical office buildings, high school expansions, tilt-up warehouse/tenant offices, and tenant interior improvement projects.

Beers Construction

Atlanta, Georgia (February 1998 to January 1999)

As a Project Engineer, Mr. Sable developed, maintained, and updated CPM schedules, ordered materials, and created and reviewed subcontractor scopes of work. His other responsibilities included scheduling subcontractors, supervising field operations, reviewing and approving subcontractor progress payments, and mitigating subcontractor claims. In addition, he produced estimates and bids for cement storage facilities, cement processing plants, and pump stations. Mr. Sable also managed a design-build 62,000 sf. cement storage terminal at the Alabama State Docks in Mobile, Alabama, and a 2,850-ton cement distribution terminal in Buford, Georgia.

MK Engineering

Deerfield Beach, Florida and Arvada, Colorado (September 1995 to December 1997)

As a Project Manager/Engineer/Surveyor, Mr. Sable developed the layout for control and utility relocations for the greenfield 30-mile Denver E-470 Beltway. He designed a recreational trail for pedestrians and equestrians along E-470, laid out the baseline for ramps at interchanges, and produced plan and profile package sheets for miscellaneous project items. Mr. Sable also designed and coordinated with the owner the relocation of public utilities along the 30 miles of roadway. Moreover, he created roadway alternatives for a 1.5-mile bridge replacement in Port St. Lucie, Florida, the I-95/I-4 Daytona Interchange, and a 5-mile stretch of Biscayne Blvd. in Miami. He was also responsible for the design and production of construction plans for two Florida turnpike bridge rehabilitation projects. He performed an engineering review on construction plans to ensure compliance with Florida Department of Transportation Standards, and designed and produced a 10 phase Maintenance of Traffic Plan for the Okeechobee Blvd. interchange in West Palm Beach, Florida. Lastly, he analyzed contractor claims for merit, and produced documentation for litigation.