

ANDRES ALVA, PE, PSP
BERKELEY RESEARCH GROUP, LLC
13620 SW 101 Lane | Miami, FL 33186

Direct: 305.240.1773

aalva@thinkbrg.com

EXPERIENCE

Andres Alva, P.E., PSP, has over 17 years of experience in the construction industry. He is bilingual in Spanish and English. Mr. Alva has worked with owners, contractors, construction managers, program managers, and other professionals on major construction projects in the United States and South America. He specializes in analyzing construction claims involving excessive changes, interference, and schedule delays. His work involves analyzing schedules and labor productivity, assessing entitlement to damages, and quantifying damages using the measured mile.

Mr. Alva analyzes and quantifies schedule delays, disruptions, and acceleration issues and performs various types of schedule analysis, including as-planned vs. as-built, time impact analysis, and windows schedule delay analysis. He also quantifies damages associated with productivity, construction defects, changes in work, and other loss issues.

Mr. Alva was the Project Controls Manager for the Runway Expansion Project at the \$ 2.3 Billion Fort Lauderdale Hollywood International Airport Program. This particular Project included the east end of the new runway to be elevated, allowing traffic on highway US 1 and a freight railway line to pass below the new aircraft runway. The eastern end of the runway was elevated by 52 feet using 11 million tons of dirt and has a slope of 1.3 degrees. 10R/28L is one of three runways in the United States with a slope of 1.3 degrees or more. In Mr. Alva's capacity as Project Controls Manager, he was responsible for the scheduling, cost, changes, claims and risk management functions.

Prior to that, Mr. Alva was the chief scheduler for the A-B Infill and Shell Interior at the \$ 2.6 Billion Miami International Airport Program. Mr. Alva was tasked to manage the construction schedule, risk management analysis and ensure that the project was completed on time. Afterwards, Mr. Alva was tasked to manage the construction schedule for Federal Inspection Services (FIS) for the North Terminal Program at Miami International Airport.

Mr. Alva's specialized skills and experience in company and project controls, include: large capital project estimating and scheduling; company/project financial and cost controls, including establishing the cost controls systems; and, project change order estimating. He is also experienced in scope change control, management systems set-up, risk management systems support, and client and corporate reporting. Mr. Alva was a certified Project Controls Manager by Parsons Corporation.

In addition, Mr. Alva is skilled in risk management techniques, risk analysis, modeling and what-if scenarios. He has a background in Lean Manufacturing as applied to Construction, such as Layout Design, Kanban, MRP, JIT, WBS, Supply Chain Management, Inventory Optimization, Pert CPM, Event

Discrete Simulation, and EVM. Mr. Alva has been involved in the implementation of Quality Management Systems ISO 9001 in various construction projects.

Mr. Alva's pro-active construction and project controls experience has qualified him to provide construction claims analysis and support for expert witness services for a number of contract/claim disputes in the U.S. and Internationally. He has provided forensic scheduling analysis for range of project types, such as mining, power plants, rail and transit and government office buildings.

Mr. Alva received an M.Eng in Industrial Engineering and Management from Rensselaer Polytechnic Institute. He also holds a Bachelor of Science from University of Lima in Industrial Engineering. He is a certified Professional Engineer in the State of Florida. Mr. Alva also holds a Certified General Contractor license in Florida and a Planning Scheduling Professional certificate from the Association for the Advancement of Cost Engineering International (AACEI).

EDUCATION

Master of Science Industrial, Management and Engineering, 2003
Rensselaer Polytechnic Institute (R.P.I), NY

Bachelor of Science, Industrial Engineering, 1998
University of Lima, Peru

SELECTED PROJECT EXPERIENCE

- Prepared delay analysis and damages quantification for a Cellulose Plant in Uruguay to be used in an expert report.
- Provided advice and strategy to different rebuttal position papers for a Mine Project expert report.
- Expansion of the new Runway 9R-27L, Fort Lauderdale Hollywood International Airport. Project Controls Manager. Developed Program Mitigations when required in conjunction with Contractor Work Packages along with Risk Management assessments. Provided functional and administrative direction to other managers/staff regarding implementation of project controls in accordance with accepted industry practices. Developed presentations to the Owner in scheduling, cost, risk and claims to communicate status of the Program. Developed and implemented the Master Schedule for Runway Expansion Program. Provided guidance, direction, and specialized assistance for the resolution of difficult and complex scheduling, cost and contract situations. Created what-if scenarios for CPM Runway Expansion Work Packages, including cost, scheduling and risk assessments.
- Expansion of the new Runway 9R-27L, Fort Lauderdale Hollywood International Airport. Acting as a Business Manager. Supported and prepares all the financial information required for the Parsons Revenue Recognition. Provided cost analysis, program cash flow, staffing plans and financial reports to Parsons. Prepared Contract Amendments and all the financial documents required. Prepared and approved the Project Staffing in conjunction with the Program Director. Reviewed all the possible time impacts due to changes in the Program and prepares forecasting cash flow projections.

- WP302 Site Preparation and NAVAIDS Infrastructure, Fort Lauderdale Hollywood International Airport. Scheduler Manager. Reviewed and analyzed Contractor Claims and support reports to the Dispute Board Panel. Reviewed, analyzed and approved Contractors Schedule by each Work Package. Implemented KPI databases. Provided timely information to all the Program Parties, including the contractor packages coordination.
- WP303 Design Build U.S1/FEC Structures, Fort Lauderdale Hollywood International Airport. Scheduler Manager. Reviewed and analyzed Contractors Claims and support reports to the Dispute Board Panel. Reviewed, analyzed and approved Contractor Schedule by each Work Package. Reviewed and approved Time Impact Analysis (TIA) from the Contractor. Prepared windows analysis, as-built and time impact analysis schedule to review Contractor's claim.
- WP304 Runway, Cross field Taxiway, and Hold Pad Paving, Lighting and Signage Fort Lauderdale Hollywood International Airport. Scheduler Manager. Reviewed, analyzed and approved Contractor Schedule by each Work Package. Reviewed and approved Time Impact Analysis (TIA) from the Contractor. Reviewed phasing plans in order to mitigate contractor delays.
- Prepared a loss of productivity study for the Paving Operations in order to open the Runway on time, Fort Lauderdale Hollywood International Airport. Scheduler Manager. The study concluded in the developed of a model to support the overtime work required for the Paving contractor. The Runway was opened on schedule.
- LaGuardia International Airport, Scheduler Claim Consultant. Reviewed contractor claim related to a time extension. Performed a schedule delay analysis based on the current work force. The analysis was used to resolve the claim between Program Management and the Contractor.
- National Security Agency (NSA), Scheduler Claim Consultant. Reviewed different contractor schedule updates using ACUMEN fuse to support the delay analysis.
- Miami International Airport North Terminal Program. A-B Project Infill Schell and Interior. Project also includes renovation of the existing Terminal A-B and Concourse A space. The approximate areas of this work are 230,000 square feet on the ground floor, 87,000 square feet on the second floor and 156,000 square feet on the third floor. Chief Scheduler. Developed baseline schedule and cost loading for AB project, (400 Million) including monthly updates process and project analysis and statistics. Developed and maintain the 3 week look ahead field schedule in coordination with field personnel. Provided guidance, direction, and specialized assistance for the resolution of difficult and complex scheduling situations. Prepared Time Impact Analysis (TIA). Project A-B completed on schedule, 18 internal milestones between another contracts and the client were completed on time.
- Miami International Airport North Terminal Program. APM Stations Constructions. The project includes construction of two Automated People Mover (APM) Stations A and B and the elevated rail guide-way between them, located on the roof level of the terminal expansion structure. Chief Scheduler. Developed a procurement schedule and detail schedule for the APM Stations. Review the critical path along with the Train deliveries. Prepared the commissioning schedule.
- Miami International Airport North Terminal Program. Baggage Handling System (BHS) areas coordination. Scheduler. Developed a coordination plan between Contractors, Owner and the BHS

contractor. Analyzed, evaluated, and forecasted project costs and performance against established schedules with critical milestones and other contractors interface also develops new phasing plans when necessary.

- Miami International Airport North Terminal Program. Center Federal Inspection Services (CFIS). The facility is comprised of operating offices for Immigration and Naturalization, US Customs, Public Health Officials, US Department of Agriculture, Homeland Security, TSA, MDAD International Operations, and American Airlines International Operations. Chief Scheduler. Provided functional and administrative direction to other managers/staff regarding implementation of project controls in accordance with accepted industry practices. Prepared and analyses forecasting cash flow projections. Created what-if scenarios for several milestones and other contractor interface. Provided guidance, direction, and specialized assistance for the resolution of difficult and complex scheduling situations.
- Thurgood Marshall US Federal Courthouse Renovation, NY. Demolition and Exterior Closure Package. The scope of the project contemplated replacing every building system - from electrical to HVAC to plumbing - as well as exterior restoration work on the Courthouse roof. Other restoration work on the interior involved cleaning stone and bronze architectural elements and repairing various windows, ceilings and replaces the lantern at the tower roof. Chief Scheduler. Prepared a cost-loaded and resource-loaded CPM baseline schedule and monthly schedule updates for a general contractor at a multi-phased U.S. Federal Courthouse under the GSA scheduling specification. Developed "Monte Carlo" simulations to evaluate construction sequences and "what-if" scenario. By using Risk Management, the lead time for fabrication and delivery of the "critical materials" was reduced in 5 weeks, facilitating the early start of several near-critical activities.
- WMATA Blue Largo Extension 3.1 mile project, Maryland. Project involved joint venture design-build construction of the Largo Extension, an extension of the Blue Line Metrorail (Heavy Rail System) near Washington, D.C. The Largo Extension, a 3.1 mile stretch of track, will connect the Blue Line Metrorail. The project included a cut-and-cover tunnel, track work; an automatic train control system; traction power; voice and data communications systems; tunnel air circulation and control room; and the construction of various structures to include an operations building; and all associated mechanical, electrical and plumbing. Scheduling Claim Consultant. Prepared the windows analysis method in the detailed schedule analysis that considered impacts such as weather, access and utility issues, productivity, design changes and contractor delays. Prepared an as-built schedule for a \$217 million rail project in Maryland and followed with the preparation of a schedule analysis to defend a contractor's claim for alleged delays. The as-built schedule supported the scheduling expert report mitigating the contractor's claim for delays.
- Capitol Visit Center at the AOC, Washington, DC. The Capitol Visitor Center included the construction of the core visitor center facilities; functional improvements to the Capitol Building, including elevators, a new truck tunnel and a below-ground loading dock facility; the build-out of 170,000 square feet of new space for the House and Senate. Claims Consultant. Prepared a detailed scheduled analysis that considered impacts from the stone trade contractors through a creation of database. Reviewed and analyzed as-built documents in order to measure the schedule impact and support the database creation.

- Dulles Corridor Metrorail, Maryland. Dulles Corridor Metrorail consists of the construction of 23-miles extension of the existing Metrorail system, which will be operated by the Washington Metropolitan Area Transit Authority from East Falls Church to Washington Dulles International Airport west to Ashburn. It includes 11 new stations. Scheduling Consultant. Prepared an assessment of best practices on an initial baseline schedule for a \$2.5billion rail project in Northern Virginia.
- Bronx Courthouses, NY. Claim Consultant. Prepared a database with all the issues to support the as-built schedule.
- Holyday Inn Express, Miami. Project Manager. Performed the design, fabrication and installation of granite, marble products along with the cabinetry of the hotel, included the shop drawings. Oversaw daily operations and production of granite kitchen countertops: schedules, supervises, instructs monitors, troubleshoots, and assists in the performance of manual and instrumental analyses.
- Hotel Strand, Miami Beach. Project Manager. Managed the commercial project for the stone products from bidding to post – sale; including contract analysis, resources optimization, planning, and execution and costs results analysis.
- Implemented a Production Control Software for a Stone fabrication company to integrate production activities using PCP techniques. Created and implemented new production procedures according to quality standards such as ISO 14000 series.
- Performed a simulation study using PROMODEL for a filling plant to support increase of production.
- SINCOR Downstream, Franja de Jose, Venezuela. Project contract to design and build, on a turnkey basis, extra heavy crude oil facilities and associated utilities and offsites at Jose, Venezuela, near Puerto La Cruz, with a treatment capacity of 284,000 BPD, the SINCOR Downstream Refinery Project will receive diluted heavy crude oil from the Zuata region of the Orinoco oil belt to produce high-grade synthetic oil. Pre-fabrication Planning Engineer. Managed Piping Pre-Fabrication (4,500 metric TONS) for the construction of Oil Upgrading Plant, US\$ 74.2 MM, 2.6 man-hours MM). Designed and implemented integrated databases to manage the outsourcing of 3 Piping Prefabrication shops throughout the country.
- SINCOR Downstream, Franja de Jose, Venezuela. Project Engineer. Developed an optimization model for the selection of the main pre-fabrication parameters (welding, painting, piping erection, EPC Analysis, supply chain, work cell analysis & lean manufacturing).
- Real Club Hotel Construction, Lima Peru. The Hotel Real Club of Lima consisted of initial demolition of the existing building and then construction of a new 5 story building including interior and exterior finishes. Planning and Cost Engineer. Supervised/coordinated operations-related of the building project throughout Lima (US\$ 2.6MM, 55 man-hours M). Run economic studies factoring in costs, operational budgets, staffing requirements, resources, and risk to determine financial feasibility.

- Diagnostic, Evaluation and Implementation of the ISO 9001, Lima Peru. ISO 9001 Project consisted in the implementation of the quality system in the engineering, procurement and construction processes according with the ISO: 9000 standards and under the Bureau Veritas Quality International audit. Quality Engineer. Designed and implemented quality software in 8 projects throughout the country. Provided training for the development of a quality strategy for company employees, contractors and university students.
- SIPAN Gold Mine project, Cajamarca Peru. Quality Engineer. Prepared and passed the BVQI audit in order to obtained the ISO 9001 certification for COSAPI (The first company in Peru to receive this distinction).
- Ministerio de Energia y Minas, Lima Peru. Performed a time study analysis of the services process which resulted in an increase of productivity from 79% to 88%.

SOFTWARE

Excel, Word, Access, Power Point, Primavera Project Planner P6, Acumen, Digger, Pertmaster V8, Microsoft Project, MINITAB, MATLAB, ORACLE, LINDO 6.1, PROMODEL Simulation, Palisade Decision Tools, People Soft Applications, Database Management Systems (DBMS).